

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532444

Luminaire Tested: **GALN-SA7D-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532444  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-740-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45670 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

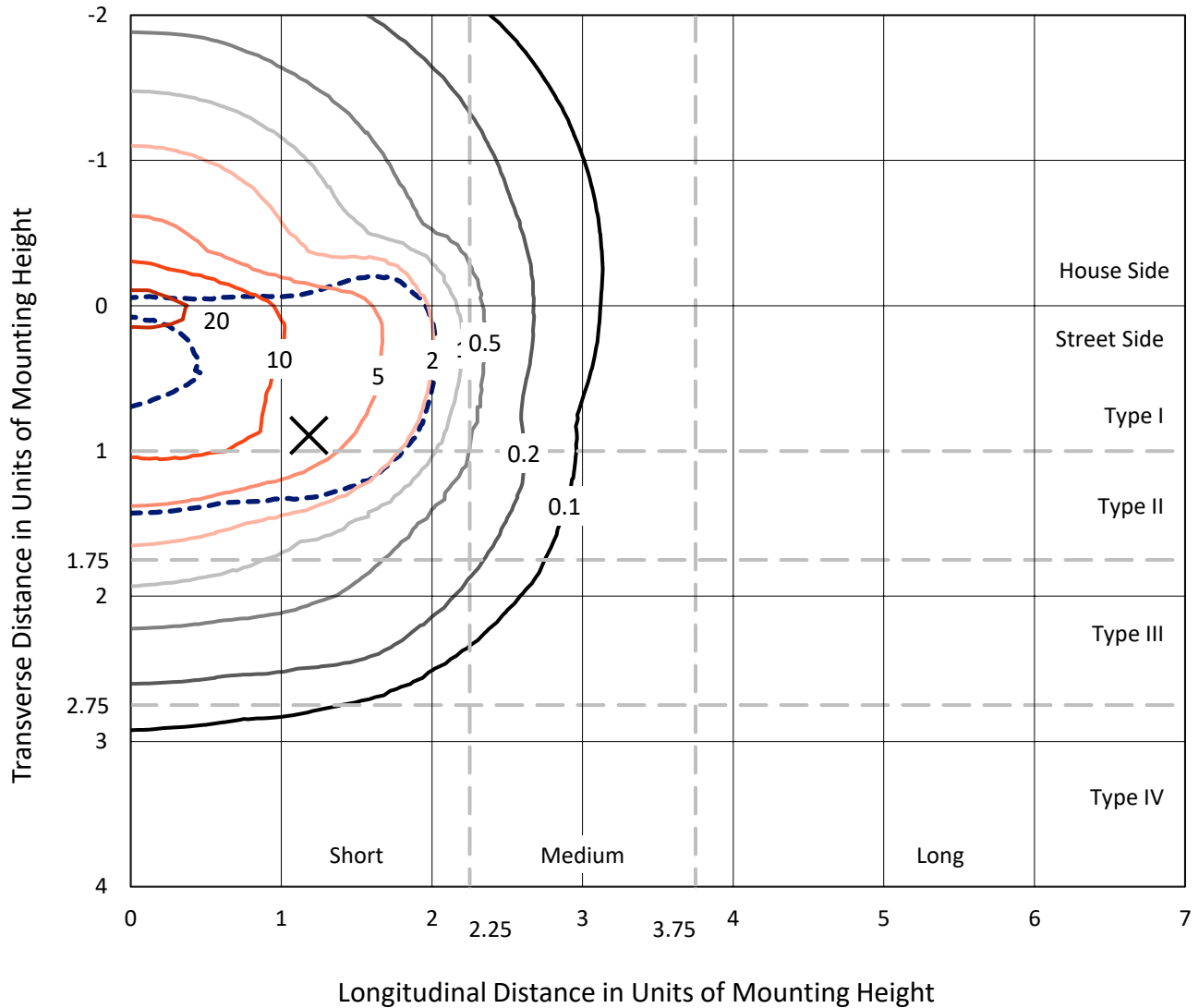
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

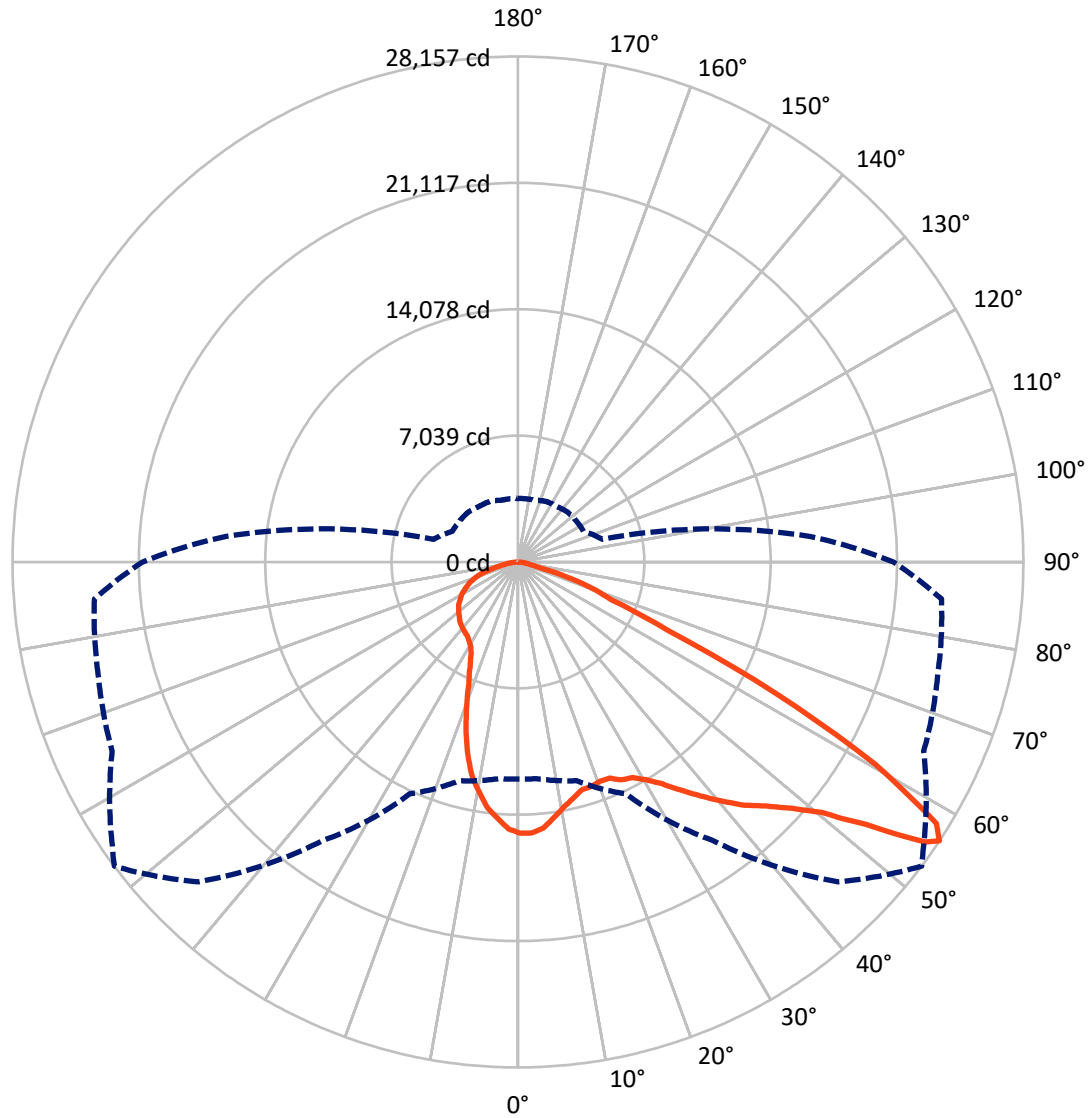
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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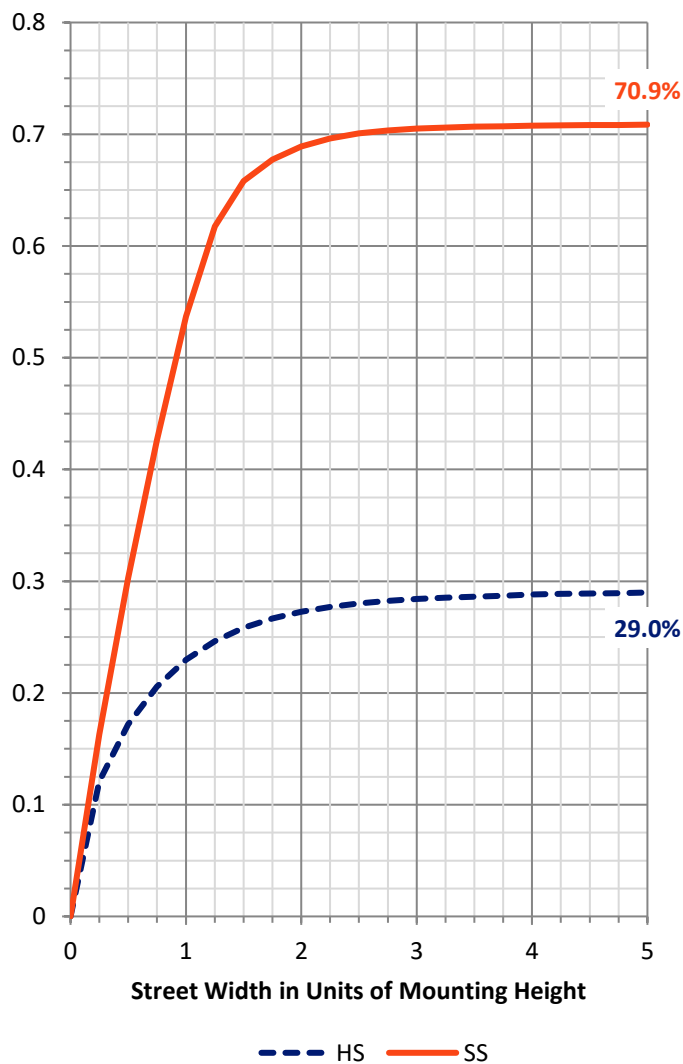
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13327.5	0.0	13327.5
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	32342.5	0.0	32342.5
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	45670.0	0.0	45670.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1337.6	2.9
10°-20°	3340.8	7.3
20°-30°	4926.3	10.8
30°-40°	7038.7	15.4
40°-50°	9687.8	21.2
50°-60°	11448.4	25.1
60°-70°	6101.2	13.4
70°-80°	1547.8	3.4
80°-90°	241.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45670.0	100.0
0°-180°	45670.0	100.0

**Coefficient of Utilization**



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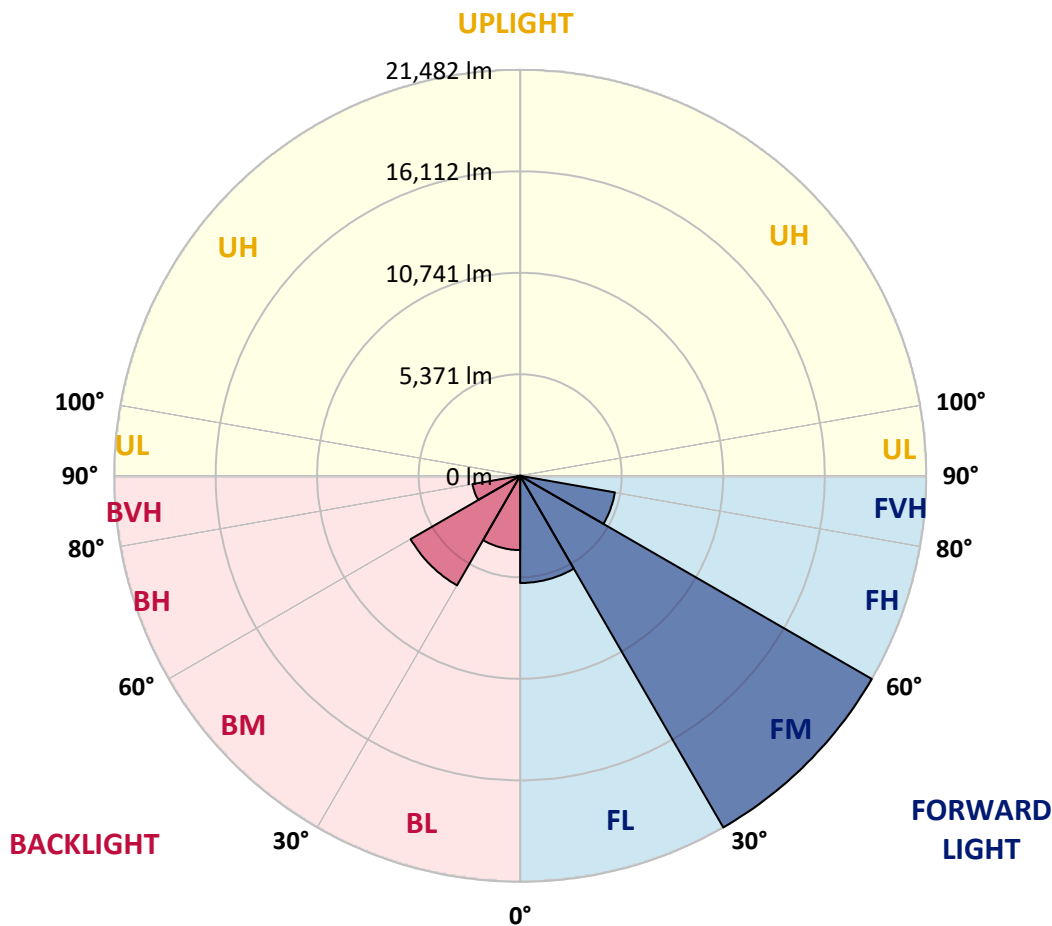
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5673.8	12.4			
FM (30°-60°)	21482.3	47.0			
FH (60°-80°)	5089.4	11.1			G3/7500
FVH (80°-90°)	97.0	0.2			G1/100
BL (0°-30°)	3930.8	8.6	B4/5000		
BM (30°-60°)	6692.6	14.7	B4/8500		
BH (60°-80°)	2559.7	5.6	B4/5000		G4/5000
BVH (80°-90°)	144.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4
2.5°	14922.0	14793.1	14869.2	14839.9	15080.1	15150.4	15115.3	15144.6	15279.3	15214.9	15080.1
5°	13943.6	14125.2	14160.3	14248.2	14388.8	14664.2	14880.9	14939.5	15004.0	15302.8	15273.5
7.5°	13053.1	13176.1	13111.6	13369.4	13674.1	14119.3	14383.0	14429.8	15021.6	15185.6	15308.6
10°	12490.6	12367.6	12660.5	12730.8	13076.5	13586.2	13902.6	14095.9	14634.9	15285.2	15361.4
12.5°	11969.2	11928.2	12104.0	12303.1	12689.8	13217.1	13539.3	13615.5	14447.4	15132.9	15490.2
15°	11582.5	11535.7	11711.4	11857.9	12309.0	12777.7	13187.8	13404.6	14242.4	15045.0	15378.9
17.5°	11277.9	11272.0	11371.6	11635.3	12098.1	12490.6	13152.6	13164.4	14136.9	15179.7	15472.7
20°	11260.3	11254.4	11272.0	11565.0	11986.8	12467.2	13041.3	13146.8	14136.9	15086.0	15478.5
22.5°	11406.8	11313.0	11418.5	11606.0	11910.6	12508.2	13082.3	13316.7	14476.7	15548.8	15742.2
25°	11641.1	11664.6	11723.1	11787.6	11963.3	12601.9	13445.6	13638.9	14875.1	15947.2	16105.4
27.5°	12068.8	12057.1	12080.5	12115.7	12268.0	12689.8	13592.0	14090.0	15707.0	16656.1	16497.9
30°	12695.7	12654.7	12748.4	12871.4	12730.8	12971.0	14078.3	14453.3	16480.4	17370.9	16937.3
32.5°	13264.0	13416.3	13592.0	13644.8	13474.9	13521.7	14722.8	15103.6	17124.8	18249.7	17476.3
35°	13972.9	14095.9	14330.2	14494.3	14465.0	14324.4	15601.6	16105.4	18056.3	18894.1	18044.6
37.5°	14664.2	14810.6	15197.3	15683.6	15414.1	15349.6	16538.9	16954.9	18343.4	19239.8	18460.6
40°	15777.3	15771.5	16439.3	16691.3	16931.5	16820.2	17511.5	17652.1	18495.7	19163.6	18472.3
42.5°	17083.8	17001.8	17681.4	18073.9	18384.4	18396.1	18525.0	18478.2	18566.0	18776.9	18349.3
45°	18325.8	18501.6	19187.1	19890.1	20200.6	20235.7	19380.4	19292.5	18689.1	18665.6	18114.9
47.5°	19843.2	19884.2	20446.7	21372.3	22092.9	21846.9	20487.7	20294.3	19228.1	19409.7	18507.4
50°	19931.1	20235.7	20739.6	21829.3	24043.9	23979.4	21923.0	21559.8	20095.1	20464.2	19603.0
52.5°	18091.5	18021.2	18618.8	20399.8	23897.4	26100.2	24301.6	23434.6	21958.2	21677.0	21378.2
55°	13785.4	13949.4	14476.7	16275.3	20751.3	26129.5	27541.5	26832.6	23950.1	23469.7	23124.1
56°	12092.2	12115.7	12613.7	14254.1	18935.1	25198.0	28156.6	27582.5	24940.2	24207.9	23680.6
57.5°	10024.1	9889.4	10147.2	11043.5	15982.4	23229.5	27482.9	28045.3	26100.2	25004.7	24272.4
60°	7891.6	7862.3	7756.8	7920.9	10100.3	17499.8	22878.0	24143.5	25983.1	24254.8	23247.1
62.5°	6444.5	6298.0	6509.0	6743.3	7018.7	10856.1	16076.1	16820.2	20628.3	19362.8	17464.6
65°	4997.4	4927.1	5190.8	5952.4	6116.4	6895.6	9157.1	9731.2	12180.1	11963.3	10533.8
67.5°	3439.0	3450.7	3679.2	4839.2	5671.2	5600.9	5606.7	5905.5	6356.6	4722.1	4112.8
70°	2179.4	2173.6	2296.6	3116.8	4563.9	4610.8	4376.4	4288.5	4065.9	2460.6	2607.1
72.5°	1400.2	1359.2	1423.6	1722.4	2361.0	2730.1	2812.1	2864.9	2355.2	1933.4	2097.4
75°	790.9	749.9	726.5	802.6	931.5	1078.0	1183.4	1218.6	1365.1	1464.7	1552.5
77.5°	240.2	216.8	263.6	351.5	462.8	621.0	755.8	779.2	919.8	1037.0	1124.9
80°	105.5	117.2	164.0	234.3	328.1	439.4	533.1	568.3	662.0	749.9	773.3
82.5°	64.4	70.3	111.3	158.2	228.5	310.5	380.8	392.5	486.3	556.6	574.1
85°	23.4	29.3	58.6	93.7	146.5	199.2	199.2	216.8	199.2	199.2	216.8
87.5°	0.0	0.0	5.9	11.7	11.7	17.6	23.4	23.4	29.3	35.2	41.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4	15109.4
2.5°	15150.4	15121.2	15074.3	14904.4	14886.8	14834.1	14541.1	14494.3	14541.1	14400.5	14412.3
5°	15121.2	15209.0	14857.5	14687.6	14371.2	14142.8	13879.1	13744.4	13504.2	13351.8	13521.7
7.5°	15250.0	15214.9	14775.5	14406.4	13931.8	13351.8	12889.0	12625.4	12203.5	12086.4	12174.3
10°	15203.2	15015.7	14500.1	14013.9	13117.5	12607.8	11857.9	11131.4	10733.0	10528.0	10498.7
12.5°	15138.7	15086.0	14224.8	13387.0	12443.8	11371.6	10317.1	9631.6	8981.3	8700.1	8741.1
15°	15214.9	14769.6	13709.2	12648.8	11395.1	9989.0	8852.4	7967.8	7516.6	7335.0	7335.0
17.5°	15179.7	14617.3	13463.2	11822.7	10235.0	8571.2	7323.3	6790.2	6602.7	6602.7	6655.4
20°	15197.3	14716.9	12965.2	10996.7	8864.1	7217.8	6309.8	6116.4	6198.4	6227.7	6257.0
22.5°	15296.9	14388.8	12478.9	10088.6	7592.8	6175.0	5729.8	5735.6	5882.1	6040.3	6011.0
25°	15419.9	14259.9	11887.2	9186.3	6620.3	5665.3	5524.7	5507.1	5618.4	5700.5	5712.2
27.5°	15314.5	14037.3	11283.7	8061.5	5823.5	5325.5	5296.2	5307.9	5343.1	5507.1	5454.4
30°	15660.1	14101.7	10528.0	7118.2	5384.1	5214.2	5179.0	5161.5	5214.2	5261.1	5220.0
32.5°	16087.8	13873.3	9965.5	6210.2	5167.3	5132.2	5061.9	5038.4	5067.7	5020.9	5044.3
35°	16275.3	13832.3	9233.2	5559.9	4997.4	4968.1	4927.1	4921.3	4927.1	4886.1	4851.0
37.5°	16380.8	14025.6	8395.4	5261.1	4892.0	4921.3	4827.5	4815.8	4710.3	4733.8	4751.4
40°	16562.4	13726.8	7715.8	4974.0	4827.5	4768.9	4686.9	4669.3	4599.0	4558.0	4599.0
42.5°	16298.7	13638.9	7047.9	4851.0	4733.8	4669.3	4610.8	4511.2	4487.7	4452.6	4429.1
45°	16087.8	13135.1	6450.4	4698.6	4622.5	4587.3	4476.0	4370.5	4282.7	4317.8	4265.1
47.5°	16246.0	12959.3	5858.6	4569.7	4470.1	4429.1	4317.8	4235.8	4147.9	4106.9	4095.2
50°	16878.7	13287.4	5360.7	4476.0	4341.3	4317.8	4171.4	4077.6	3995.6	3966.3	3978.0
52.5°	18390.3	14183.8	5020.9	4282.7	4218.2	4112.8	4030.7	3913.6	3860.8	3767.1	3825.7
55°	20306.1	15642.6	4933.0	4101.0	4065.9	3972.2	3860.8	3773.0	3673.4	3597.2	3579.6
56°	20921.2	16339.8	4862.7	4030.7	3972.2	3919.4	3773.0	3720.2	3562.1	3544.5	3532.8
57.5°	21419.2	16954.9	4874.4	3896.0	3837.4	3790.5	3702.7	3573.8	3468.3	3403.9	3433.2
60°	20294.3	15871.1	4651.8	3690.9	3679.2	3591.3	3468.3	3409.7	3280.8	3204.7	3187.1
62.5°	15086.0	10774.0	3773.0	3427.3	3421.4	3327.7	3187.1	3122.7	3099.2	2993.8	2993.8
65°	8688.4	6755.0	3263.3	3210.5	3163.7	3069.9	2929.3	2876.6	2818.0	2782.9	2753.6
67.5°	3708.5	3503.5	2964.5	2958.6	2905.9	2788.7	2648.1	2566.1	2489.9	2419.6	2454.8
70°	2689.1	2730.1	2677.4	2648.1	2583.7	2437.2	2314.2	2214.6	2097.4	2050.5	2085.7
72.5°	2132.5	2220.4	2296.6	2302.4	2226.3	2056.4	1921.6	1786.9	1658.0	1593.6	1622.8
75°	1617.0	1675.6	1751.7	1769.3	1658.0	1540.8	1411.9	1271.3	1171.7	1095.6	1107.3
77.5°	1165.9	1154.2	1224.5	1212.7	1160.0	1078.0	960.8	831.9	720.6	650.3	656.2
80°	796.8	814.4	855.4	849.5	785.1	732.3	644.5	539.0	457.0	398.4	386.7
82.5°	556.6	585.9	621.0	591.7	539.0	486.3	421.8	345.7	281.2	234.3	222.6
85°	199.2	228.5	263.6	281.2	298.8	287.1	240.2	193.3	140.6	117.2	111.3
87.5°	41.0	46.9	52.7	52.7	52.7	46.9	41.0	41.0	35.2	17.6	17.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)