

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: P533312

Luminaire Tested: **GALN-SA8D-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45908 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

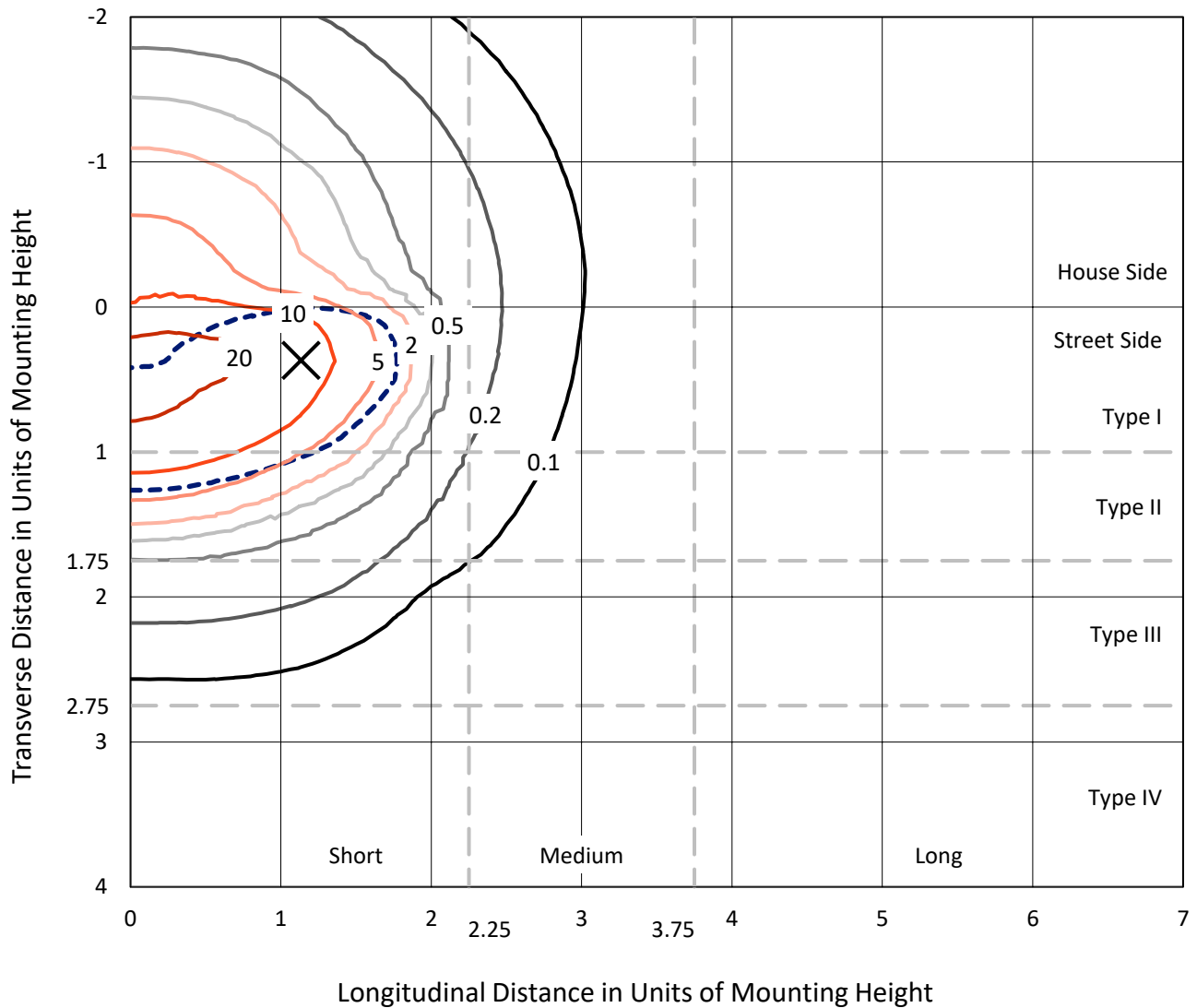
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

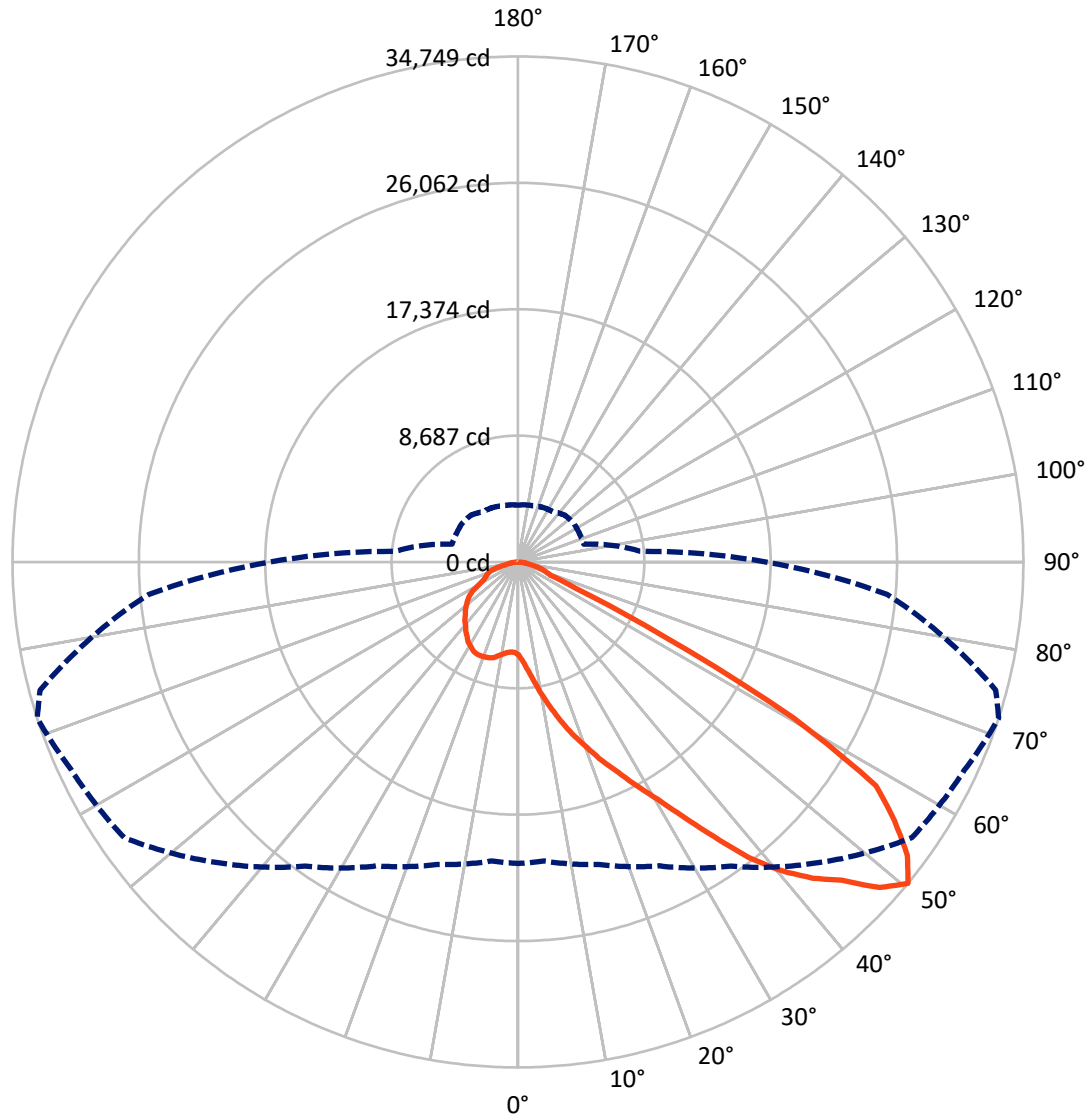
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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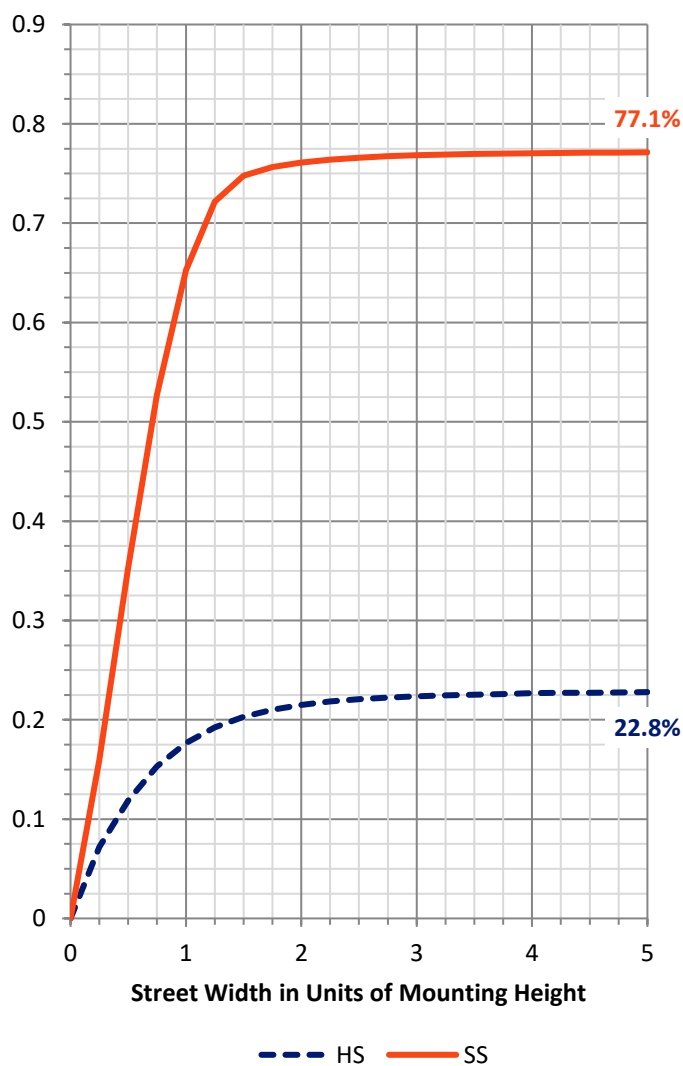
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10517.8	0.0	10517.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	35390.2	0.0	35390.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	45908.0	0.0	45908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	751.7	1.6
10°-20°	2810.2	6.1
20°-30°	5448.7	11.9
30°-40°	9026.7	19.7
40°-50°	12630.3	27.5
50°-60°	10655.3	23.2
60°-70°	3247.7	7.1
70°-80°	1139.4	2.5
80°-90°	198.1	0.4
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°	45908.0	100.0
0°-180°	45908.0	100.0

**Coefficient of Utilization**



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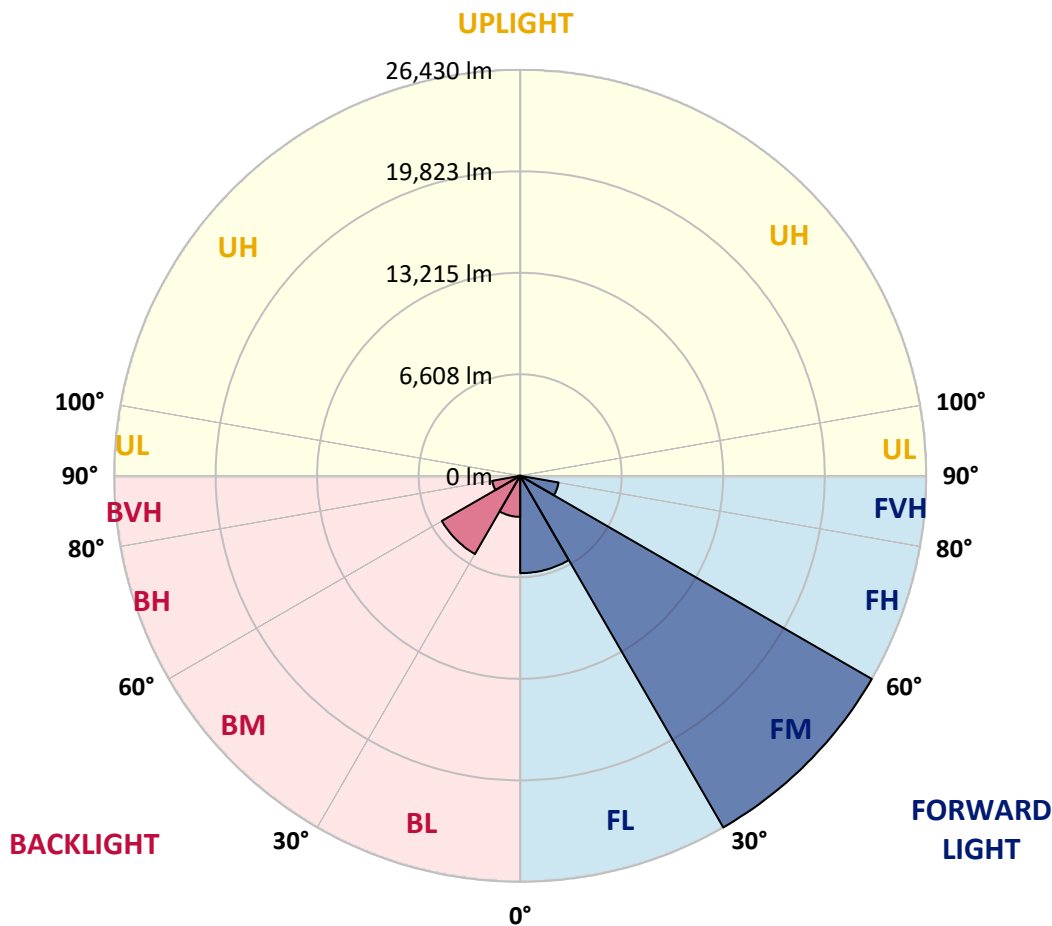
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6337.0	13.8			
FM (30°-60°)	26430.5	57.6			
FH (60°-80°)	2534.0	5.5			G2/5000
FVH (80°-90°)	88.7	0.2			G1/100
BL (0°-30°)	2673.7	5.8	B4/5000		
BM (30°-60°)	5881.7	12.8	B4/8500		
BH (60°-80°)	1853.0	4.0	B3/2500		G3/2500
BVH (80°-90°)	109.4	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8
2.5°	8220.0	8168.8	8015.5	7964.3	7782.6	7453.1	7339.5	7004.3	6862.3	6731.6	6578.2
5°	10395.7	10157.1	10140.0	9850.3	9430.0	9185.7	8458.6	7970.0	7521.2	7294.0	6873.6
7.5°	11781.8	11787.4	11787.4	11548.9	11213.7	10594.5	9941.2	9060.7	8384.7	8049.5	7333.8
10°	13099.7	12986.1	12923.6	12900.9	12673.6	12071.5	11372.8	10282.1	9356.1	8964.1	7680.3
12.5°	14031.3	13934.8	14076.8	14002.9	13838.2	13446.2	12787.3	11543.2	10384.3	9856.0	8237.0
15°	14474.4	14542.6	14656.2	14860.7	14786.9	14639.2	13912.0	12838.4	11492.1	10895.6	8731.2
17.5°	15156.1	14968.6	15105.0	15360.6	15565.1	15496.9	15082.3	13775.7	12588.4	11855.6	9395.9
20°	15633.3	15525.3	15593.5	15888.9	16042.3	16428.6	16212.7	15002.7	13639.4	12866.8	10179.8
22.5°	16996.6	16837.6	16616.0	16661.5	16718.3	16991.0	17042.1	16349.0	14860.7	14042.7	10924.0
25°	18678.1	18530.4	18269.1	18002.1	17837.4	17786.3	17962.4	17405.7	16030.9	15184.5	11725.0
27.5°	20530.0	20280.1	20115.4	19564.3	19121.2	19053.1	18967.9	18666.8	17417.0	16502.4	12628.2
30°	22330.8	22132.0	21910.5	21029.9	20569.8	20496.0	20075.6	20160.8	18922.4	17905.6	13650.7
32.5°	23694.2	23711.2	23205.7	22541.0	22109.3	21717.3	21563.9	21808.2	20853.8	20035.8	14792.5
35°	24796.2	24847.4	24364.5	23762.4	23296.5	23569.2	23501.0	23614.7	23160.2	22160.4	16121.8
37.5°	25869.9	25614.3	25097.3	24807.6	24563.3	25012.1	25591.5	25688.1	25773.3	24597.4	17667.0
40°	26046.0	26068.7	25767.6	25972.2	25665.4	26341.4	27687.7	27562.7	27909.3	26881.1	19342.8
42.5°	25796.0	25847.2	25966.5	26256.2	26994.7	27807.0	29806.6	29295.4	29715.7	28801.1	20973.1
45°	25387.0	25176.9	25324.6	26426.6	27704.8	29511.2	31743.7	31346.1	31209.8	30442.9	22915.9
47.5°	23432.9	23648.7	24108.9	25466.6	27386.6	29806.6	33118.5	33027.6	33436.6	32896.9	24682.6
50°	20723.2	20638.0	21524.2	23052.3	25529.1	29227.2	33044.6	33868.3	34748.8	33999.0	25472.2
52.5°	15519.7	15974.1	16735.3	18632.7	22166.1	26068.7	31431.3	32806.0	33521.8	33362.7	24836.0
55°	9810.6	9946.9	10407.0	12662.3	15843.5	20922.0	26943.5	30130.4	31408.6	32005.1	24250.9
57.5°	4766.1	4510.5	5072.9	6885.0	9151.6	14071.1	20780.0	26244.8	29022.7	30102.0	22978.4
60°	2488.1	2584.7	2806.3	3453.9	4732.0	7305.4	12952.0	17490.9	21734.4	23393.1	17417.0
62.5°	2062.1	2096.2	2243.9	2567.7	3147.1	4203.7	6612.3	8526.7	11083.0	12577.1	9907.1
65°	1749.7	1766.7	1925.8	2141.6	2510.9	2959.6	3402.7	3561.8	4311.6	4425.3	3522.0
67.5°	1459.9	1477.0	1647.4	1851.9	2090.5	2209.8	2323.4	2312.0	2397.3	2363.2	2357.5
70°	1124.8	1141.8	1317.9	1533.8	1653.1	1584.9	1937.1	2016.6	2050.7	2079.1	2124.6
72.5°	812.3	846.4	982.8	1136.1	1073.7	1232.7	1596.3	1715.6	1761.0	1778.1	1834.9
75°	590.8	602.2	636.2	590.8	681.7	857.8	1124.8	1272.5	1329.3	1346.3	1431.5
77.5°	261.3	267.0	272.7	340.8	437.4	534.0	670.3	789.6	869.1	891.9	914.6
80°	136.3	142.0	176.1	232.9	312.4	392.0	488.5	556.7	607.8	613.5	636.2
82.5°	85.2	90.9	125.0	164.7	221.5	289.7	357.9	414.7	454.5	460.1	465.8
85°	39.8	51.1	73.8	102.3	147.7	187.5	193.1	164.7	176.1	181.8	170.4
87.5°	11.4	17.0	22.7	17.0	22.7	22.7	28.4	34.1	34.1	34.1	39.8
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°	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8	6390.8
2.5°	6493.0	6441.9	6243.1	6169.2	5976.1	6010.2	5907.9	5902.2	5879.5	5873.8	5868.2
5°	6652.1	6493.0	6254.4	6072.7	5964.7	5953.4	5879.5	5879.5	5902.2	5919.3	5879.5
7.5°	6913.4	6731.6	6328.3	6157.9	6061.3	6044.3	5993.1	5953.4	6004.5	5987.5	5942.0
10°	7214.5	6896.4	6470.3	6322.6	6163.6	6123.8	6123.8	6140.8	6055.6	6084.0	6038.6
12.5°	7549.6	7123.6	6652.1	6481.7	6294.2	6271.5	6260.1	6135.2	6180.6	6157.9	6044.3
15°	7975.7	7384.9	6885.0	6595.3	6436.2	6334.0	6186.3	6163.6	6135.2	6078.3	6027.2
17.5°	8435.8	7668.9	6992.9	6629.4	6390.8	6316.9	6203.3	6084.0	5998.8	6010.2	5970.4
20°	8827.8	7930.3	7032.7	6663.5	6356.7	6214.7	6038.6	5964.7	5873.8	5868.2	5862.5
22.5°	9293.6	8282.5	7089.5	6572.6	6254.4	6106.8	5987.5	5856.8	5794.3	5714.8	5754.5
25°	9850.3	8418.8	7100.9	6521.4	6180.6	5919.3	5856.8	5714.8	5692.1	5578.4	5601.2
27.5°	10253.7	8492.6	7010.0	6362.4	6010.2	5811.4	5697.7	5595.5	5555.7	5470.5	5447.8
30°	10793.3	8606.3	6816.8	6163.6	5839.8	5618.2	5550.0	5527.3	5413.7	5322.8	5311.5
32.5°	11406.8	8680.1	6691.9	5959.1	5663.7	5493.2	5527.3	5419.4	5277.4	5197.8	5175.1
35°	11895.4	8708.5	6379.4	5726.1	5544.4	5436.4	5396.7	5373.9	5169.4	5095.6	5038.8
37.5°	12639.6	8646.0	6118.1	5561.4	5413.7	5373.9	5339.9	5186.5	4953.6	4845.6	4766.1
40°	13508.7	8629.0	5783.0	5328.5	5288.7	5334.2	5231.9	4993.3	4669.5	4550.2	4493.4
42.5°	14343.8	8748.3	5572.8	5203.5	5152.4	5169.4	5027.4	4669.5	4510.5	4442.3	4351.4
45°	15741.2	8998.2	5226.2	5010.4	4987.7	4976.3	4805.9	4430.9	4340.1	4254.8	4237.8
47.5°	17002.3	8833.5	5004.7	4811.6	4834.3	4771.8	4408.2	4288.9	4186.7	4101.5	4073.1
50°	17076.2	8441.5	4692.3	4658.2	4663.9	4555.9	4209.4	4129.9	3999.2	3942.4	3902.6
52.5°	16689.9	7799.6	4402.5	4413.9	4430.9	4254.8	3965.1	3908.3	3800.4	3720.9	3698.1
55°	15604.9	6799.8	4118.5	4164.0	4209.4	3874.2	3783.3	3641.3	3556.1	3442.5	3448.2
57.5°	13747.3	5476.2	3720.9	3794.7	3891.3	3522.0	3453.9	3277.8	3152.8	3061.9	3050.5
60°	9214.1	3897.0	3124.4	3152.8	3368.7	3221.0	3215.3	3039.2	2868.8	2789.2	2743.8
62.5°	5436.4	2976.7	2698.3	2669.9	2664.2	2749.5	2891.5	2829.0	2607.4	2454.1	2499.5
65°	2846.0	2573.4	2510.9	2414.3	2357.5	2334.8	2442.7	2471.1	2323.4	2158.7	2147.3
67.5°	2391.6	2391.6	2340.4	2306.4	2226.8	2130.3	2062.1	1971.2	1948.5	1903.0	1846.2
70°	2175.7	2232.5	2215.5	2135.9	2067.8	1959.8	1783.7	1636.0	1494.0	1442.9	1477.0
72.5°	1897.4	1954.2	1954.2	1914.4	1823.5	1658.8	1488.3	1317.9	1198.6	1107.7	1096.4
75°	1459.9	1488.3	1556.5	1511.1	1391.8	1289.5	1113.4	937.3	823.7	738.5	721.4
77.5°	931.6	977.1	977.1	971.4	886.2	789.6	676.0	551.0	465.8	403.3	386.3
80°	619.2	647.6	670.3	647.6	590.8	516.9	431.7	346.5	284.0	232.9	221.5
82.5°	454.5	488.5	505.6	482.9	426.1	369.2	306.8	244.3	181.8	142.0	130.7
85°	176.1	181.8	204.5	244.3	238.6	232.9	187.5	136.3	102.3	73.8	68.2
87.5°	45.4	39.8	45.4	45.4	39.8	34.1	34.1	34.1	34.1	17.0	22.7
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)