

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: P533990

Luminaire Tested: **GALN-SA9C-722-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-722-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39946 lumens  
Efficiency: N/A  
Efficacy: 83.0 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

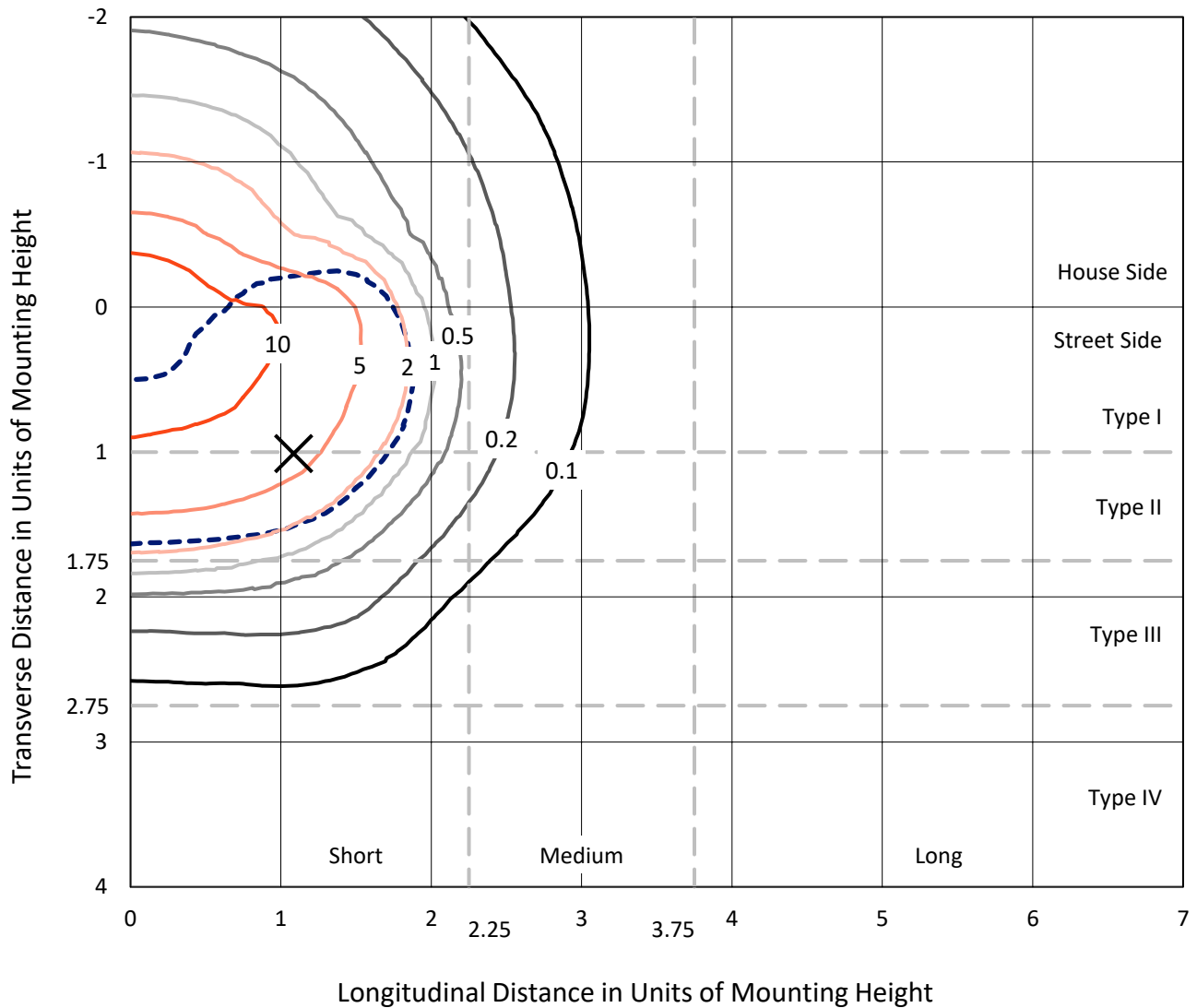
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

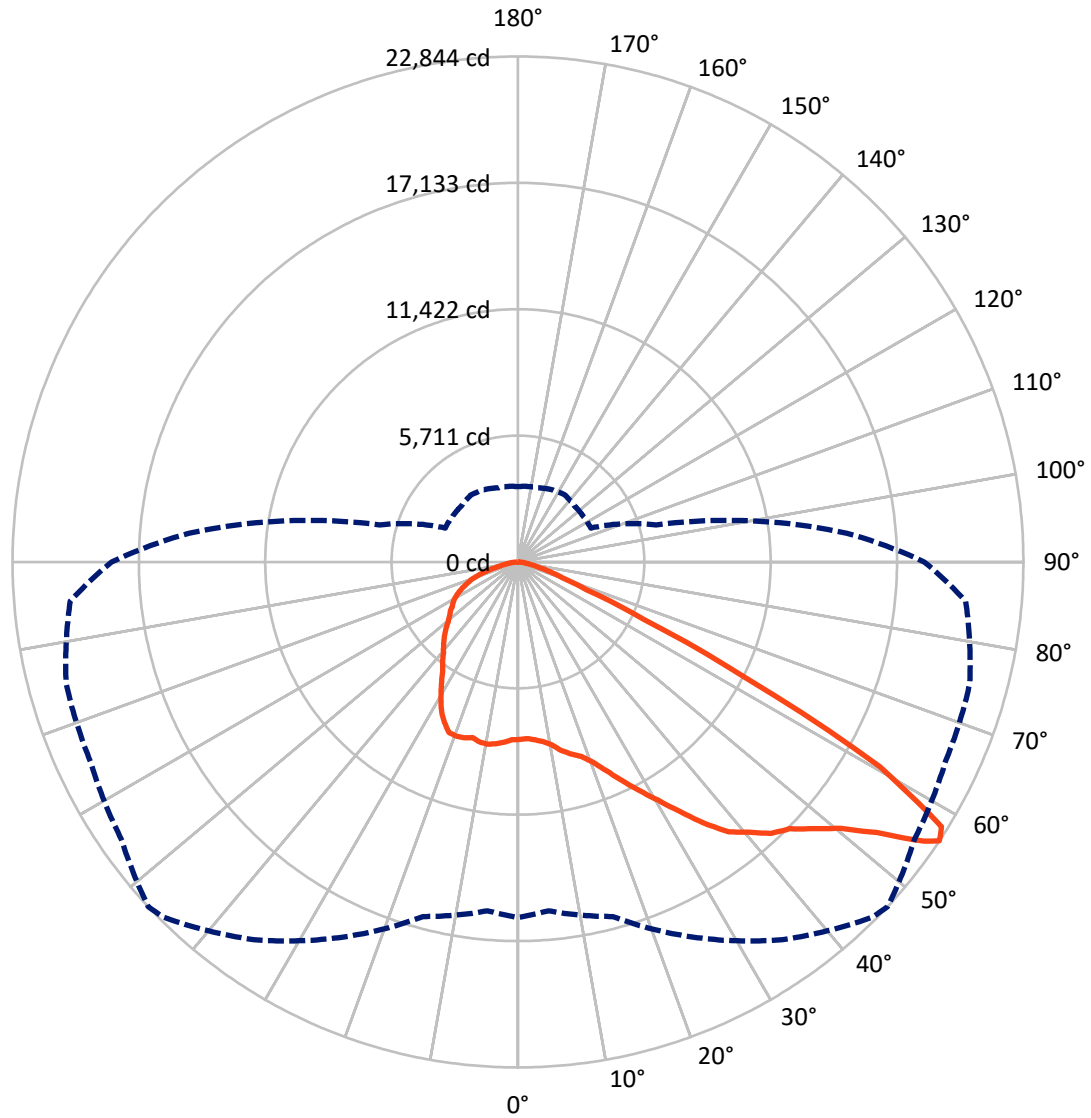
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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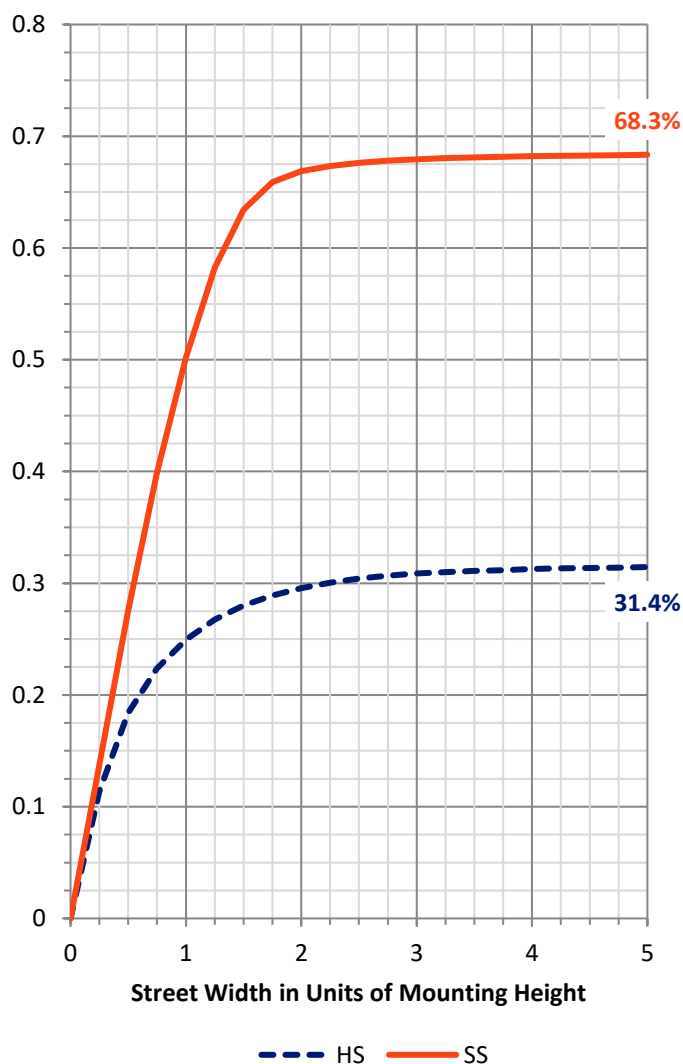
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12658.4	0.0	12658.4
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	27287.6	0.0	27287.6
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	39946.0	0.0	39946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	781.8	2.0
10°-20°	2466.3	6.2
20°-30°	4359.8	10.9
30°-40°	6548.2	16.4
40°-50°	8986.8	22.5
50°-60°	10706.6	26.8
60°-70°	4581.8	11.5
70°-80°	1296.6	3.2
80°-90°	218.2	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°	39946.0	100.0
0°-180°	39946.0	100.0

**Coefficient of Utilization**



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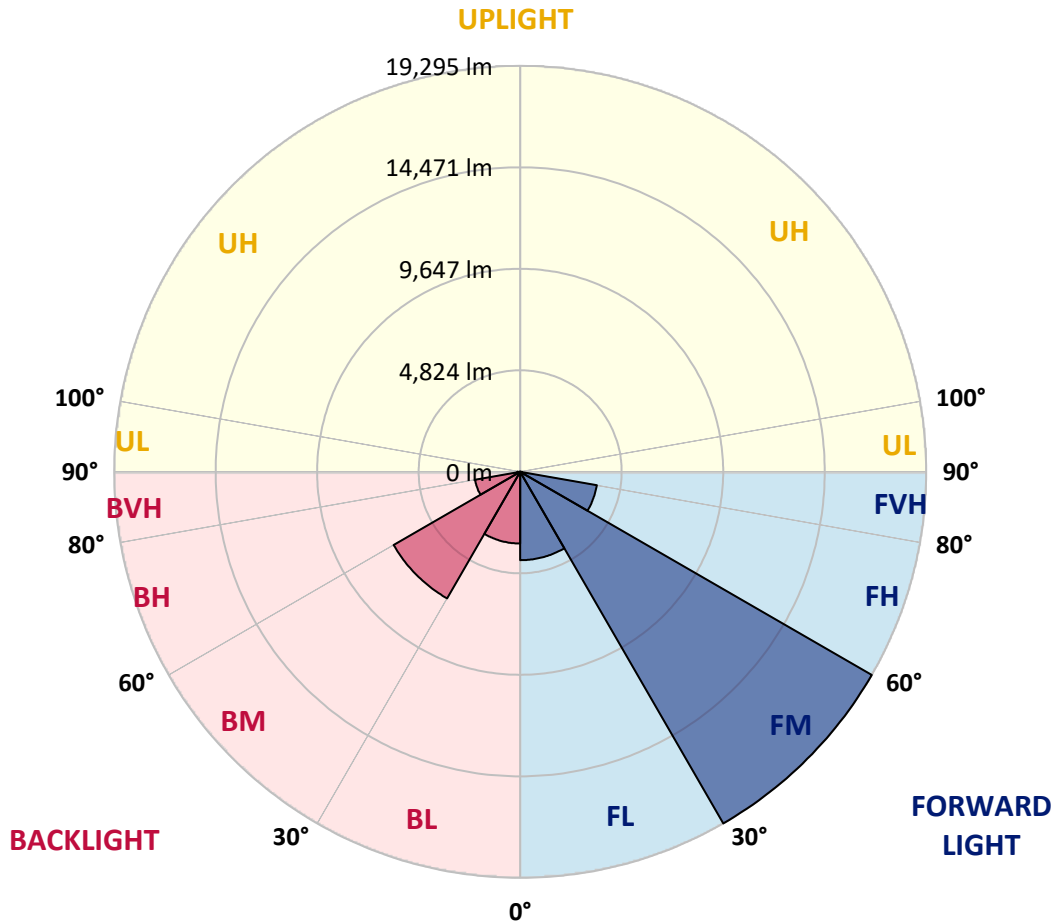
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4199.7	10.5			
FM (30°-60°)	19294.8	48.3			
FH (60°-80°)	3700.5	9.3			G2/5000
FVH (80°-90°)	92.6	0.2			G1/100
BL (0°-30°)	3408.2	8.5	B4/5000		
BM (30°-60°)	6946.7	17.4	B4/8500		
BH (60°-80°)	2177.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	125.6	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9
2.5°	7993.4	7978.1	7967.9	8049.4	8018.8	8023.9	7993.4	8023.9	8044.3	7998.5	8064.7
5°	7978.1	8023.9	7983.2	8008.7	8074.9	8054.5	8074.9	8136.0	8120.7	8105.5	8085.1
7.5°	8120.7	8125.8	8156.4	8166.6	8187.0	8166.6	8197.2	8253.2	8237.9	8151.3	8161.5
10°	8324.5	8334.7	8339.8	8395.8	8431.5	8436.6	8400.9	8350.0	8344.9	8462.1	8380.6
12.5°	8558.9	8533.4	8594.5	8614.9	8655.7	8701.5	8747.4	8640.4	8706.6	8711.7	8614.9
15°	8900.2	8925.7	8854.4	8854.4	8869.6	8874.7	9002.1	8951.1	8941.0	8884.9	8925.7
17.5°	9409.7	9236.4	9231.3	9160.0	9149.8	9190.6	9236.4	9277.2	9414.8	9302.7	9083.6
20°	9781.6	9822.3	9674.6	9588.0	9603.3	9695.0	9649.1	9832.5	9929.3	9745.9	9531.9
22.5°	10438.8	10301.2	10336.9	10143.3	10158.6	10255.4	10250.3	10438.8	10494.8	10204.4	9893.6
25°	10882.0	10846.3	10876.9	10724.1	10744.4	10820.9	10943.1	11253.9	11162.2	10841.2	10122.9
27.5°	11529.0	11457.7	11432.2	11376.2	11355.8	11559.6	11702.2	12033.4	11967.1	11498.4	10530.5
30°	12191.3	12145.4	12170.9	11941.7	12023.2	12456.2	12497.0	12950.4	12919.8	12094.5	10983.9
32.5°	12649.8	12675.3	12721.1	12593.8	12955.5	13301.9	13439.5	13954.0	13979.5	13118.5	11860.1
35°	13388.5	13301.9	13327.4	13475.1	13643.2	14275.0	14499.1	14840.5	15054.4	14193.5	12700.7
37.5°	13852.1	13943.8	13836.8	14071.2	14509.3	15268.4	15472.2	15823.7	16047.9	15253.1	13847.0
40°	14575.5	14427.8	14504.2	14672.3	15120.7	16109.0	16053.0	16414.7	16486.0	16154.9	14916.9
42.5°	15355.0	15283.7	15176.7	15558.8	15935.8	16654.1	16766.2	16598.1	16959.8	17036.2	16445.3
45°	16287.3	16373.9	16389.2	16399.4	16730.5	17357.2	17204.3	17056.6	17474.4	18029.7	17392.8
47.5°	17153.4	16878.3	17077.0	17352.1	17820.8	17825.9	18004.2	17652.7	18095.9	18590.1	18248.7
50°	17443.8	17311.3	17576.2	18095.9	18819.3	18895.7	18916.1	18416.8	18646.1	19038.4	18544.2
52.5°	17331.7	17285.9	17963.4	18768.4	19828.0	20215.2	20317.1	19700.7	19828.0	19649.7	19196.3
55°	16796.8	16934.3	17617.0	19257.5	20882.6	22079.8	22273.4	21494.0	20683.9	20821.5	20322.2
56°	16063.2	15823.7	16587.9	18702.1	20836.8	22686.1	22844.0	21871.0	21320.7	21142.4	20312.0
57.5°	13628.0	13317.2	14320.8	16827.3	19680.3	22456.8	22574.0	22028.9	21213.8	20852.0	18829.5
60°	7978.1	8130.9	9404.6	11605.4	15181.8	18411.8	18804.0	19201.4	18656.3	17036.2	14015.1
62.5°	3851.5	3754.7	4666.6	6653.5	9251.7	11753.2	11636.0	12751.7	13363.0	12104.7	8849.3
65°	2017.4	2007.3	2547.3	3632.4	5084.4	6174.6	6281.6	6882.8	7723.4	6235.7	4493.4
67.5°	1482.5	1523.3	1793.3	2552.4	3270.7	3336.9	3321.7	3622.2	3703.7	3133.2	2761.3
70°	1161.6	1181.9	1380.6	1941.0	2435.2	2180.5	2134.6	2170.3	2409.7	2511.6	2389.4
72.5°	840.6	861.0	1029.1	1309.3	1523.3	1487.6	1518.2	1716.9	2012.4	2119.3	1992.0
75°	560.4	575.7	667.4	799.8	901.7	973.1	1029.1	1258.4	1533.5	1594.6	1533.5
77.5°	387.2	402.5	463.6	565.5	575.7	621.5	641.9	748.9	917.0	993.4	952.7
80°	219.1	219.1	249.6	290.4	356.6	417.8	427.9	514.6	591.0	641.9	652.1
82.5°	101.9	107.0	132.5	178.3	234.3	290.4	300.6	356.6	412.7	463.6	478.9
85°	50.9	56.0	76.4	107.0	142.6	173.2	168.1	173.2	183.4	173.2	178.3
87.5°	15.3	15.3	20.4	25.5	20.4	25.5	25.5	30.6	35.7	40.8	45.9
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°	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9	8023.9
2.5°	8069.8	8085.1	7983.2	8080.0	8044.3	8039.2	8110.5	8100.4	8125.8	8115.6	8054.5
5°	8074.9	8039.2	8146.2	8049.4	8095.3	8192.1	8125.8	8278.7	8202.2	8253.2	8141.1
7.5°	8232.8	8243.0	8222.6	8263.4	8243.0	8288.9	8253.2	8288.9	8227.7	8232.8	8334.7
10°	8370.4	8339.8	8375.5	8324.5	8360.2	8344.9	8263.4	8237.9	8258.3	8232.8	8299.0
12.5°	8625.1	8569.1	8543.6	8482.4	8441.7	8288.9	8161.5	8090.2	8187.0	8202.2	8171.7
15°	8884.9	8890.0	8772.8	8635.3	8380.6	8151.3	8181.9	8207.3	8207.3	8248.1	8171.7
17.5°	9047.9	9047.9	8941.0	8665.9	8406.0	8273.6	8243.0	8161.5	8090.2	8080.0	8074.9
20°	9333.2	9246.6	9002.1	8660.8	8395.8	8334.7	8105.5	7911.9	7764.1	7713.2	7708.1
22.5°	9659.3	9440.2	9098.9	8670.9	8380.6	8293.9	7866.0	7575.6	7310.7	7198.6	7213.9
25°	9959.9	9608.3	9154.9	8625.1	8324.5	7906.8	7427.9	7025.4	6750.3	6658.6	6612.7
27.5°	10168.7	9786.7	9154.9	8665.9	8115.6	7473.7	6984.6	6470.1	6230.7	6169.5	6179.7
30°	10449.0	10010.8	9312.9	8579.2	7697.9	6913.3	6327.4	5991.2	5848.6	5797.6	5833.3
32.5°	11106.1	10596.7	9531.9	8370.4	7203.7	6352.9	5879.1	5690.6	5481.8	5379.9	5344.2
35°	11819.4	11152.0	9745.9	8018.8	6648.4	5843.5	5548.0	5374.8	5125.1	5013.1	5033.4
37.5°	12828.1	11865.2	9761.2	7438.1	6047.2	5558.2	5288.2	5018.1	4814.4	4641.1	4590.2
40°	14188.4	12838.3	9725.5	6826.7	5563.3	5221.9	5023.2	4687.0	4457.7	4335.5	4360.9
42.5°	15385.6	13979.5	9577.8	6133.9	5125.1	4992.7	4768.5	4437.4	4213.2	4085.8	4075.7
45°	16394.3	14820.1	9297.6	5542.9	4758.3	4737.9	4478.1	4223.4	4045.1	3927.9	3978.9
47.5°	17326.6	15497.7	8874.7	4951.9	4422.1	4462.8	4213.2	4055.3	3943.2	3836.2	3831.1
50°	17662.9	15487.5	8502.8	4462.8	4152.1	4131.7	4121.5	3953.4	3836.2	3744.5	3785.3
52.5°	18223.3	15660.7	8100.4	4126.6	3907.5	3912.6	3948.3	3826.0	3693.6	3637.5	3688.5
55°	19028.2	15686.2	7213.9	3734.3	3703.7	3739.4	3739.4	3657.9	3545.8	3500.0	3474.5
56°	18371.0	14927.1	6470.1	3632.4	3601.9	3601.9	3698.7	3607.0	3469.4	3433.7	3403.2
57.5°	16944.5	13077.7	5415.5	3510.2	3464.3	3535.6	3586.6	3489.8	3362.4	3311.5	3342.0
60°	11686.9	8849.3	4070.6	3245.2	3245.2	3362.4	3403.2	3260.5	3204.5	3199.4	3158.6
62.5°	6821.6	5155.7	3184.1	3005.8	3016.0	3112.8	3143.3	3061.8	2990.5	3077.1	3117.9
65°	3617.1	3077.1	2730.7	2751.1	2756.2	2832.6	2965.0	2959.9	2954.8	2980.3	2985.4
67.5°	2618.6	2557.5	2481.1	2460.7	2470.9	2526.9	2659.4	2761.3	2756.2	2695.0	2649.2
70°	2333.3	2246.7	2200.9	2205.9	2165.2	2231.4	2338.4	2404.6	2287.5	2216.1	2185.6
72.5°	1941.0	1915.6	1885.0	1890.1	1808.6	1793.3	1671.0	1671.0	1640.4	1620.1	1655.7
75°	1482.5	1472.3	1487.6	1462.1	1375.5	1283.8	1212.5	1146.3	1044.4	1003.6	983.3
77.5°	937.4	968.0	1003.6	947.6	911.9	845.7	774.4	708.1	626.6	580.8	580.8
80°	636.8	662.3	687.8	677.6	636.8	575.7	519.6	448.3	392.3	356.6	351.5
82.5°	484.0	504.4	540.0	499.3	458.5	407.6	361.7	310.8	259.8	219.1	219.1
85°	173.2	198.7	219.1	239.4	254.7	259.8	224.2	183.4	147.7	117.2	112.1
87.5°	45.9	50.9	56.0	50.9	50.9	50.9	56.0	50.9	45.9	35.7	35.7
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)