

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: P383693

Luminaire Tested: **GLEON-SA9D-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9D-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52898.9 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

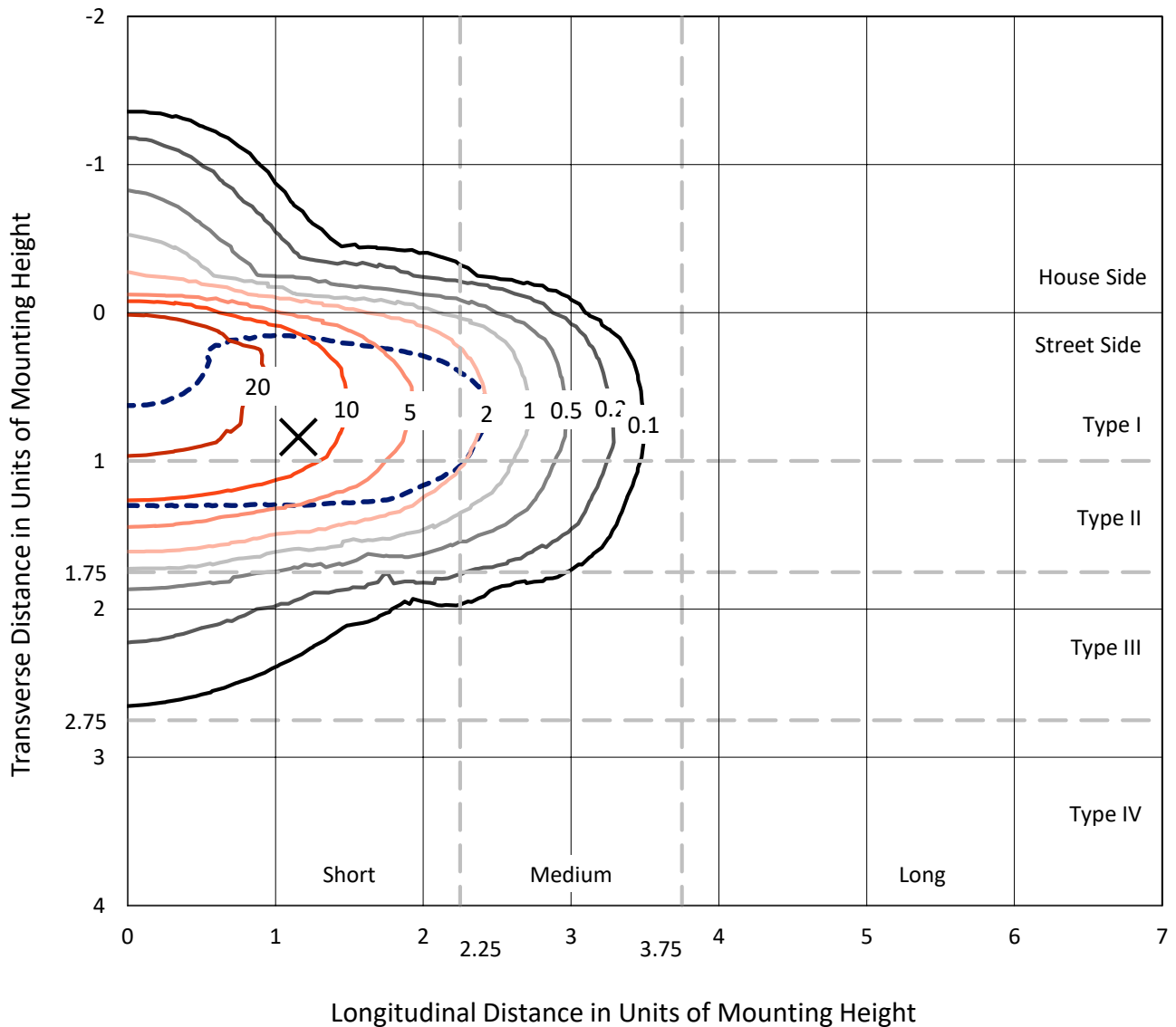
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

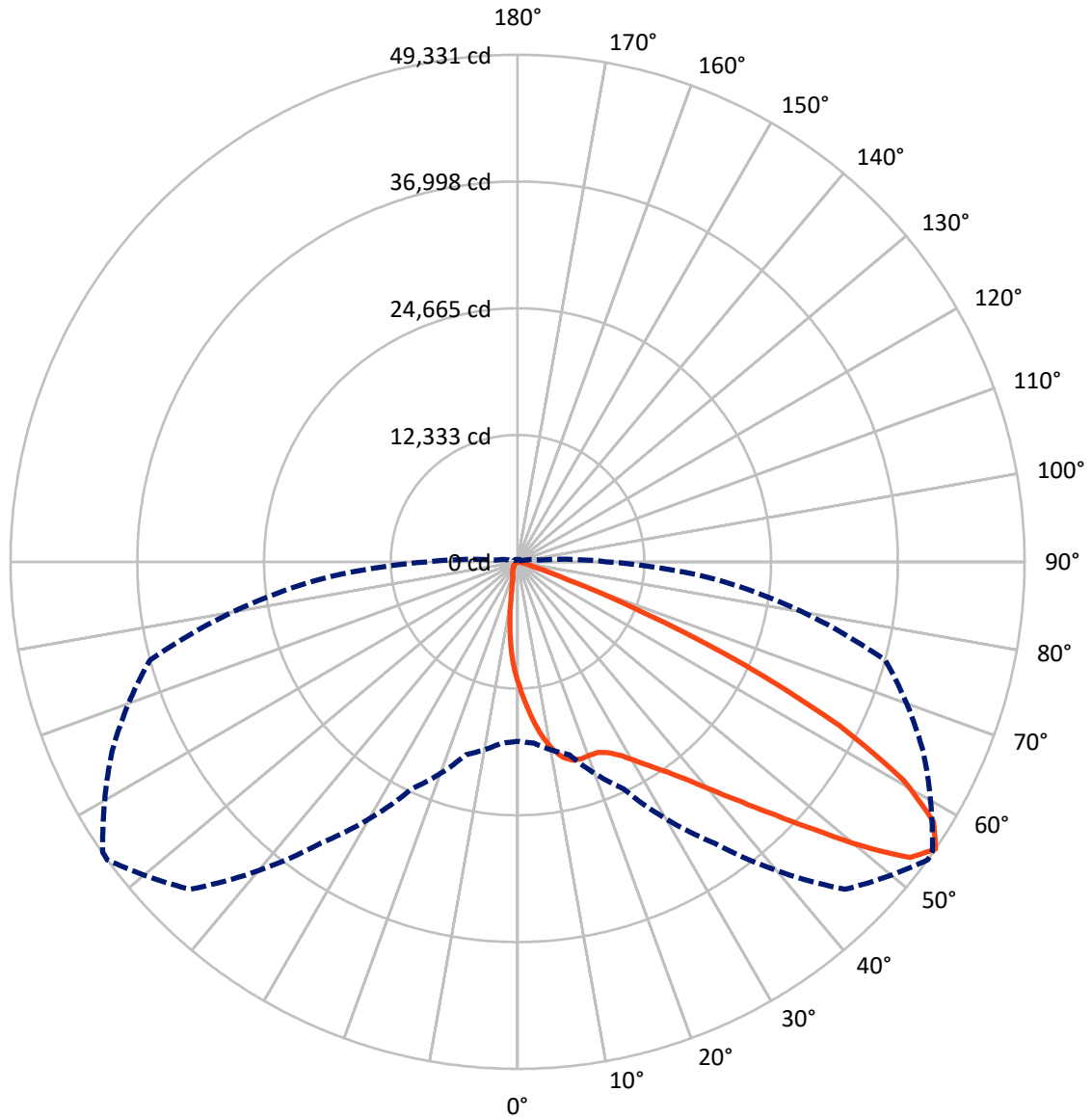
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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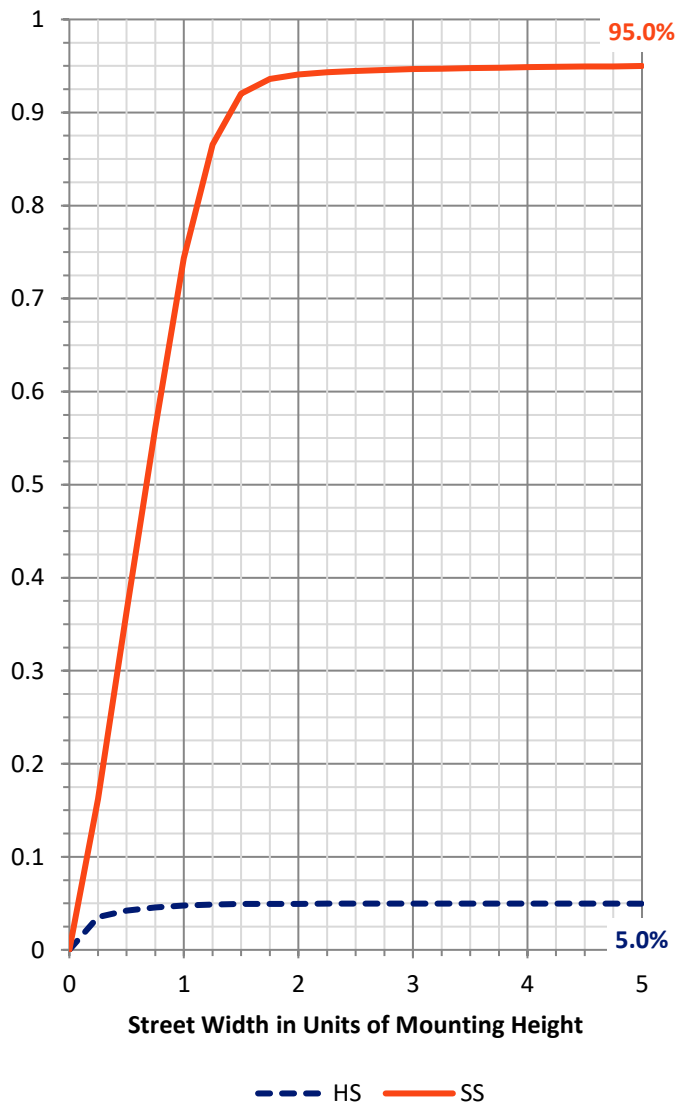
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2639.3	0.0	2639.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	50259.6	0.0	50259.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	52898.9	0.0	52898.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1091.0	2.1
10°-20°	2992.1	5.7
20°-30°	5108.5	9.7
30°-40°	8198.2	15.5
40°-50°	13100.8	24.8
50°-60°	14037.9	26.5
60°-70°	7207.5	13.6
70°-80°	1091.8	2.1
80°-90°	71.1	0.1
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°	52898.9	100.0
0°-180°	52898.9	100.0

**Coefficient of Utilization**

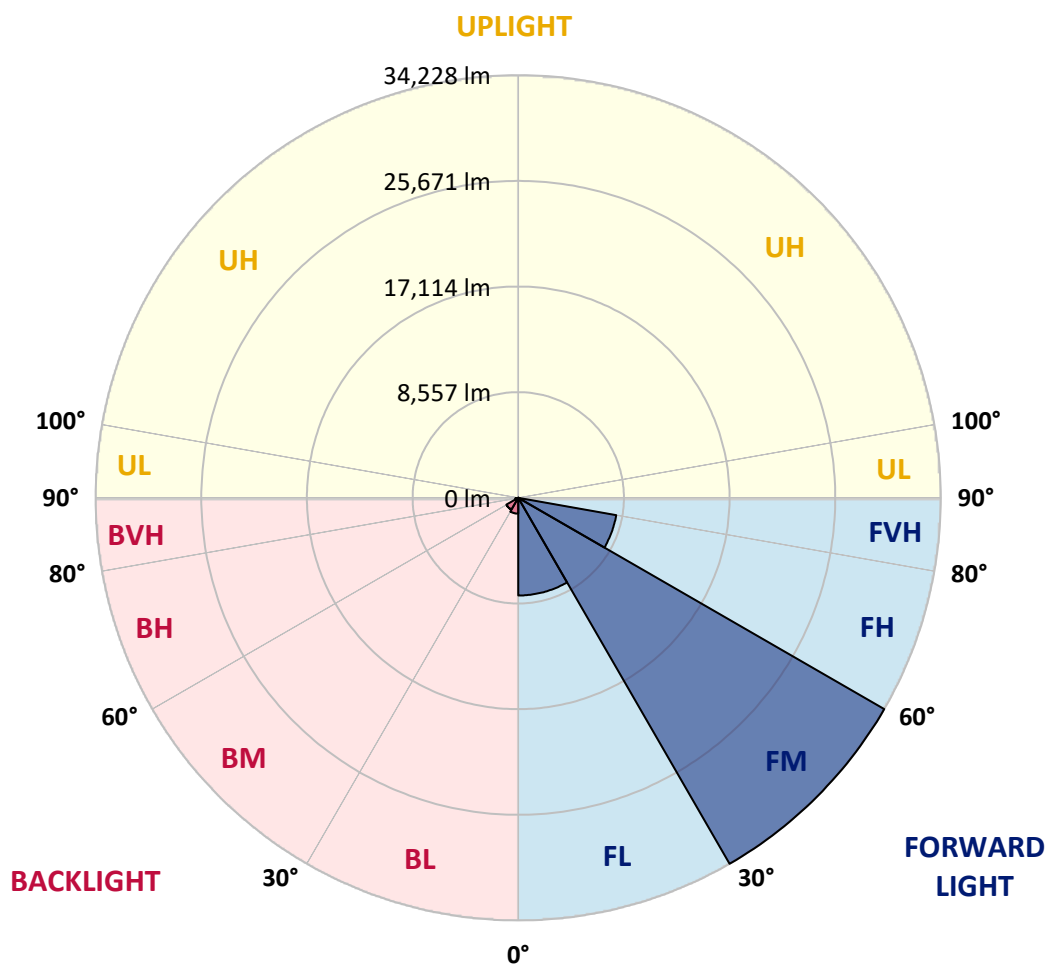


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7907.5	14.9			
FM (30°-60°)	34227.9	64.7			
FH (60°-80°)	8056.0	15.2			G4/12000
FVH (80°-90°)	68.2	0.1			G1/100
BL (0°-30°)	1284.1	2.4	B3/2500		
BM (30°-60°)	1109.1	2.1	B2/2500		
BH (60°-80°)	243.2	0.5	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2
2.5°	14867.3	14645.7	14652.5	14552.0	14184.2	13896.4	13597.1	13526.3	13060.3	12571.4	12100.8
5°	17437.3	17275.1	17236.2	17042.1	16530.4	15989.0	15408.7	15273.9	14362.4	13361.8	12377.2
7.5°	18757.7	18760.0	18728.0	18657.2	18337.4	17811.9	17103.8	16962.2	15721.6	14220.8	12665.0
10°	18373.9	18460.8	18639.0	18874.3	19118.7	19052.4	18520.1	18392.2	17044.3	15130.0	12984.8
12.5°	17478.4	17489.8	17688.6	18074.6	18778.3	19500.2	19509.3	19465.9	18307.7	16080.4	13336.7
15°	17033.0	17076.4	17149.4	17398.4	18065.5	19221.5	20048.5	20110.2	19465.9	17090.1	13711.4
17.5°	17325.4	17387.1	17325.4	17355.1	17741.1	18780.6	20142.1	20299.7	20477.9	18088.4	14065.4
20°	18118.0	18175.1	18065.5	17944.5	18019.9	18652.7	20075.9	20288.3	21270.6	18974.8	14362.4
22.5°	19187.2	19210.0	19043.3	18844.6	18789.7	19086.7	20130.7	20350.0	21905.7	19776.6	14549.7
25°	20363.7	20384.2	20176.4	19947.9	19817.7	19938.8	20580.7	20745.2	22465.4	20541.9	14657.2
27.5°	21645.3	21663.5	21403.1	21122.1	20971.4	20975.9	21323.2	21499.1	23061.7	21414.5	14743.9
30°	23000.0	22990.9	22751.0	22360.3	22168.4	22163.8	22392.3	22570.5	23925.2	22534.0	14862.7
32.5°	24521.4	24503.1	24162.8	23678.4	23461.4	23493.4	23696.7	23799.6	24996.6	23726.4	15075.1
35°	26524.9	26472.3	25958.3	25357.6	24957.7	24946.3	25117.7	25199.9	26362.7	25170.2	15429.2
37.5°	29124.6	29076.7	28379.9	27507.2	26945.2	26735.0	26938.4	27043.5	28311.3	27022.9	15998.1
40°	31687.8	31639.8	31226.3	30426.8	29561.0	29056.1	29216.0	29327.9	30744.3	29270.8	16715.4
42.5°	33456.0	33497.1	33641.0	33707.2	32896.3	31836.3	31909.3	32025.9	33300.6	31674.1	17535.5
45°	33922.0	34011.1	34824.3	36421.2	36725.1	35898.0	35132.8	35196.8	35898.0	34077.3	18355.7
47.5°	32521.6	32686.0	34255.5	37225.3	39797.6	40382.4	38934.1	38849.5	38390.4	36021.4	18938.2
50°	29339.4	29490.1	31523.3	35916.3	40729.7	44663.5	43489.3	43240.3	40576.6	37184.2	19143.8
52.5°	24733.9	24916.7	26568.3	31795.1	38973.0	46573.4	47802.4	47594.4	42180.3	37275.6	19178.0
55°	17467.0	17688.6	19436.2	24368.4	33405.7	45054.2	49330.7	49269.0	43512.1	37033.4	19251.2
57.5°	9816.4	9976.2	11860.9	15621.1	24466.6	39242.5	47733.8	48142.8	44316.3	36613.1	19360.8
60°	4358.7	4402.1	5377.6	7776.3	14323.6	29990.4	43162.6	43852.5	43626.4	36051.1	19545.8
62.5°	2417.0	2380.4	2380.4	3232.5	6225.2	18565.8	35196.8	36336.7	40681.7	35386.3	19555.0
65°	1893.8	1859.6	1761.3	1775.1	2371.3	8240.1	24372.9	26399.2	35089.3	33437.7	18897.1
67.5°	1606.0	1576.3	1478.1	1439.2	1473.5	2718.5	13391.6	15495.5	26625.4	28373.0	16368.1
70°	1357.0	1336.4	1286.2	1238.2	1151.4	1343.3	5124.1	6554.1	16407.0	18874.3	11173.3
72.5°	1092.0	1082.8	1101.1	1060.0	954.9	895.5	1752.1	2122.3	7369.7	8422.8	4603.1
75°	941.2	936.7	945.8	904.6	785.9	623.7	890.9	973.2	2078.8	2060.6	932.1
77.5°	612.2	619.1	783.5	765.3	676.2	415.7	461.5	498.0	630.5	472.9	283.3
80°	390.6	386.0	397.5	635.0	607.6	317.6	230.7	242.1	303.9	233.0	137.0
82.5°	237.5	233.0	260.5	297.0	306.1	221.6	141.6	143.9	189.6	150.8	73.1
85°	20.6	27.4	157.6	146.2	105.1	68.6	68.6	73.1	100.5	89.1	41.1
87.5°	0.0	0.0	27.4	41.1	22.8	25.2	25.2	27.4	38.8	38.8	20.6
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°	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2	11847.2
2.5°	11856.4	11618.8	11139.1	10677.6	10286.9	9910.0	9480.5	9055.6	8856.9	8776.9	8694.7
5°	11877.0	11388.1	10398.9	9402.9	8370.2	7440.5	6647.8	5834.6	5427.8	5249.7	5167.5
7.5°	11904.3	11159.6	9560.5	7888.3	6225.2	4964.1	3863.0	3154.9	2848.8	2800.8	2681.9
10°	11908.9	10883.2	8587.3	6216.0	4173.7	2992.7	2302.7	1937.2	1802.5	1779.6	1740.8
12.5°	11918.0	10556.5	7506.8	4603.1	2782.4	2001.2	1665.3	1544.3	1507.7	1505.5	1505.5
15°	11945.4	10213.9	6385.1	3317.1	1998.9	1585.4	1462.1	1414.1	1400.4	1407.2	1405.0
17.5°	11945.4	9809.5	5283.9	2471.8	1615.1	1425.5	1357.0	1325.0	1320.4	1327.3	1329.6
20°	11858.6	9318.4	4274.2	1923.6	1432.3	1322.7	1261.0	1231.3	1219.9	1224.4	1226.8
22.5°	11650.8	8715.2	3451.8	1592.3	1311.2	1229.1	1162.8	1117.1	1098.9	1101.1	1101.1
25°	11326.4	8000.2	2700.3	1377.6	1213.1	1128.6	1050.9	998.3	986.9	984.6	989.2
27.5°	10910.6	7209.8	2149.6	1213.1	1096.5	1016.6	938.9	895.5	886.4	888.7	890.9
30°	10501.7	6389.7	1695.0	1073.7	966.3	890.9	831.5	811.0	811.0	817.8	820.1
32.5°	10127.0	5601.5	1341.0	952.6	849.9	781.3	747.0	744.8	756.1	760.7	763.0
35°	9804.9	4872.7	1110.2	859.0	758.5	699.0	687.7	696.8	710.5	719.6	721.9
37.5°	9576.5	4221.7	970.9	781.3	687.7	639.7	637.4	655.6	673.9	694.5	699.0
40°	9480.5	3671.1	874.9	712.7	630.5	594.0	587.1	612.2	646.5	676.2	680.8
42.5°	9400.5	3221.1	792.7	646.5	584.8	532.3	530.0	562.0	603.1	632.8	639.7
45°	9332.1	2860.1	717.3	575.7	525.4	456.9	463.7	504.9	536.9	568.8	575.7
47.5°	9190.4	2563.2	635.0	500.3	434.0	390.6	404.4	440.9	466.1	514.0	520.8
50°	8936.8	2321.0	550.5	408.9	354.1	338.1	358.6	383.8	415.7	456.9	461.5
52.5°	8765.5	2138.3	477.4	342.6	292.4	297.0	317.6	326.7	345.0	361.0	356.4
55°	8667.2	2037.8	418.1	297.0	249.0	262.7	267.3	255.9	246.8	230.7	223.9
57.5°	8655.8	1946.4	372.3	258.1	219.3	226.2	210.2	171.3	139.4	121.1	116.5
60°	8637.6	1834.4	335.8	217.1	194.1	185.0	150.8	93.6	66.2	61.7	61.7
62.5°	8438.8	1660.8	308.4	182.8	164.5	139.4	86.8	43.4	36.5	38.8	38.8
65°	7806.0	1418.7	281.0	148.5	130.2	100.5	43.4	25.2	13.7	16.0	16.0
67.5°	6636.3	1130.8	251.3	114.2	98.3	64.0	25.2	11.5	0.0	0.0	0.0
70°	4443.3	701.4	212.5	79.9	64.0	38.8	18.3	2.3	0.0	0.0	0.0
72.5°	1704.2	379.2	171.3	48.0	41.1	27.4	11.5	0.0	0.0	0.0	0.0
75°	383.8	249.0	118.8	34.3	29.7	18.3	4.6	0.0	0.0	0.0	0.0
77.5°	146.2	180.4	68.6	22.8	20.6	11.5	0.0	0.0	0.0	0.0	0.0
80°	70.8	107.4	32.0	13.7	11.5	4.6	0.0	0.0	0.0	0.0	0.0
82.5°	36.5	41.1	13.7	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.6	20.6	6.9	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	6.9	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)