

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: P383558

Luminaire Tested: **GLEON-SA8C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45113 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

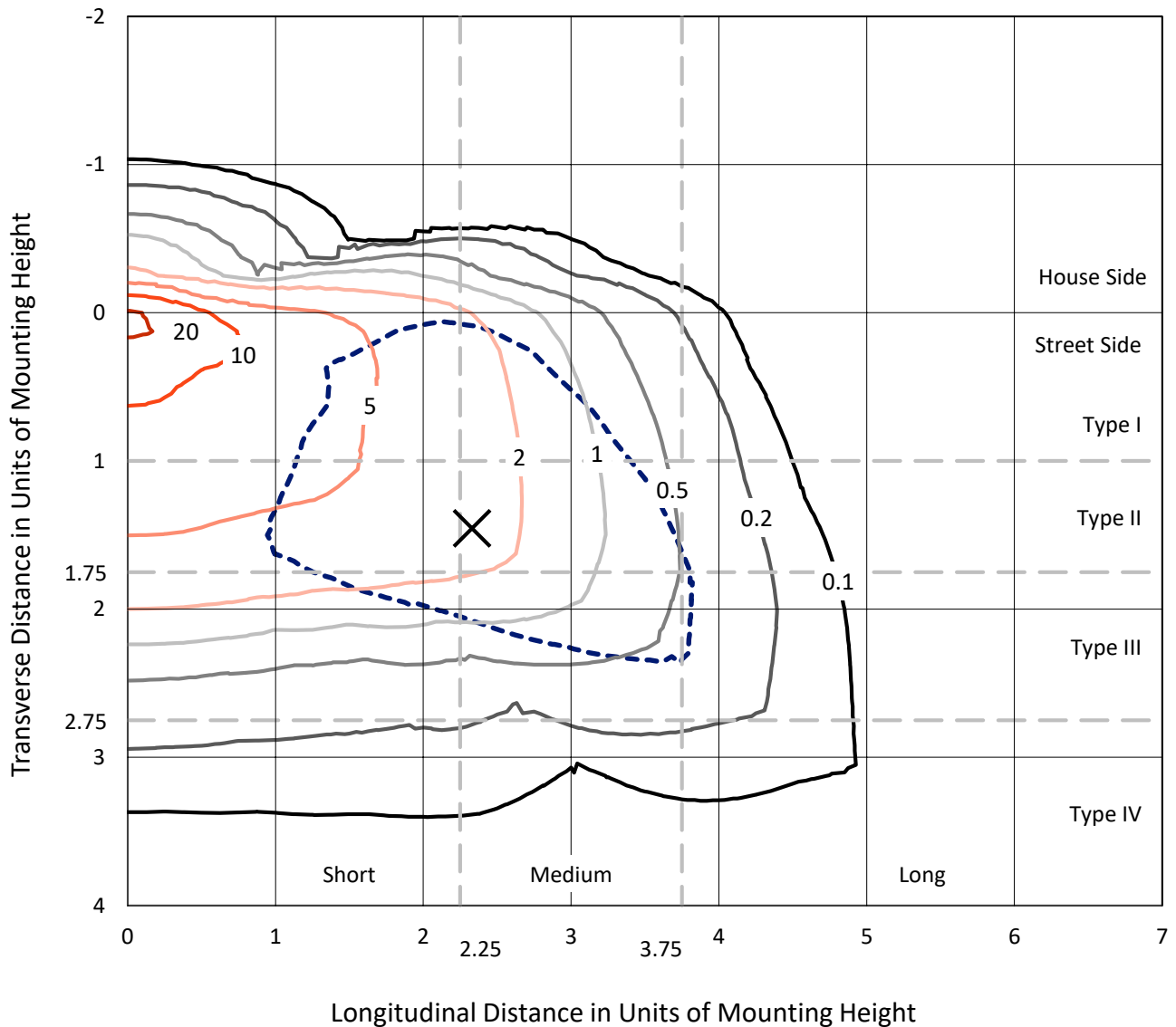
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

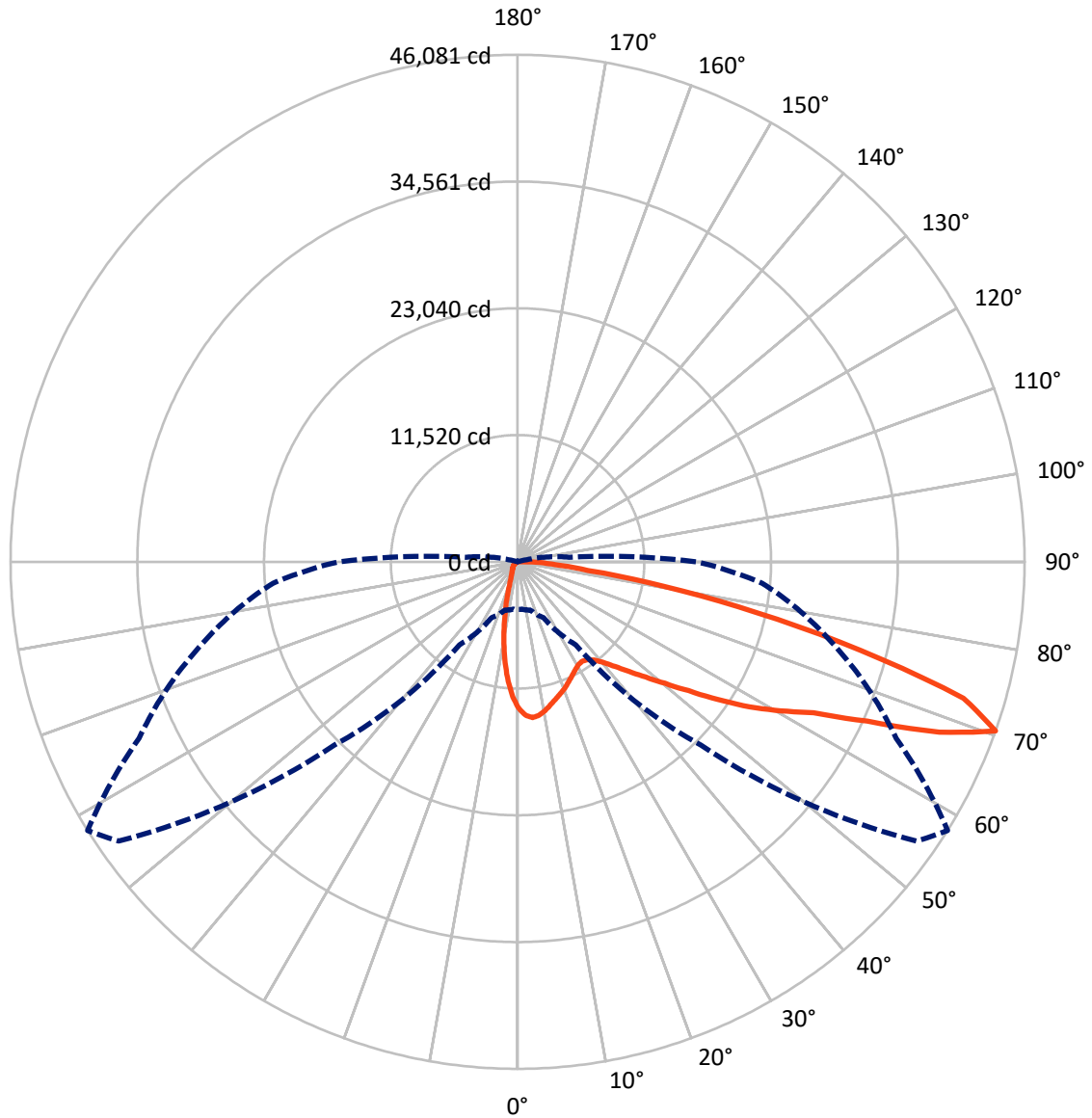
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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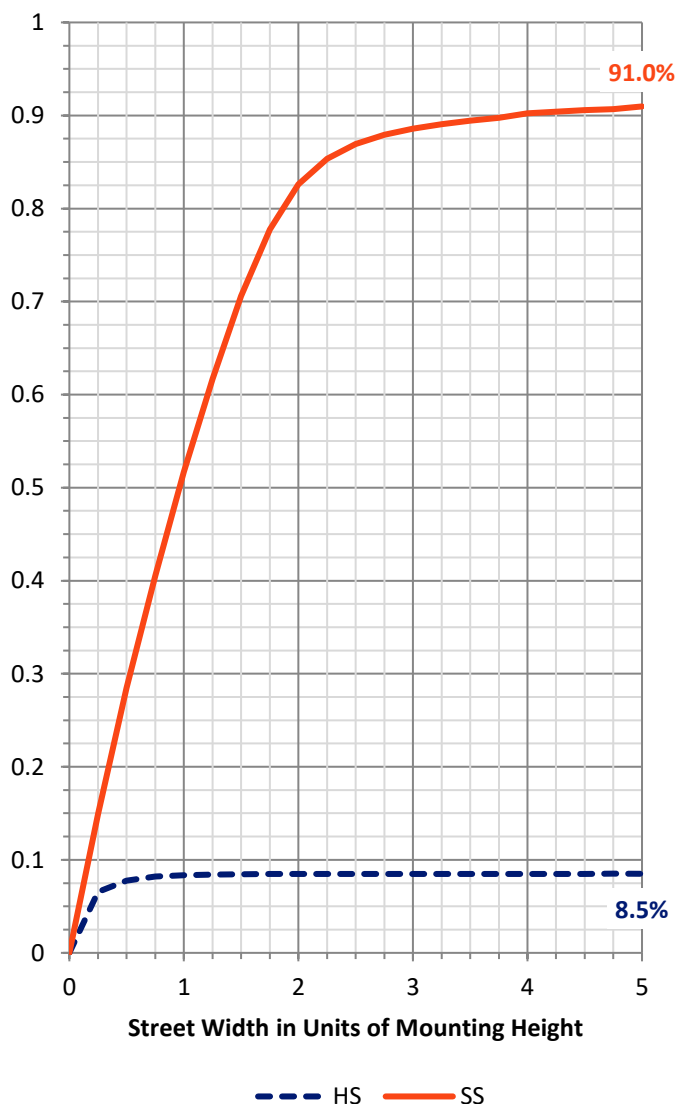
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3860.7	0.0	3860.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	41252.3	0.0	41252.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	45113.0	0.0	45113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1089.7	2.4
10°-20°	2287.1	5.1
20°-30°	3006.8	6.7
30°-40°	3982.1	8.8
40°-50°	5952.0	13.2
50°-60°	9534.9	21.1
60°-70°	12018.7	26.6
70°-80°	6482.8	14.4
80°-90°	758.8	1.7
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°	45113.0	100.0
0°-180°	45113.0	100.0

Coefficient of Utilization

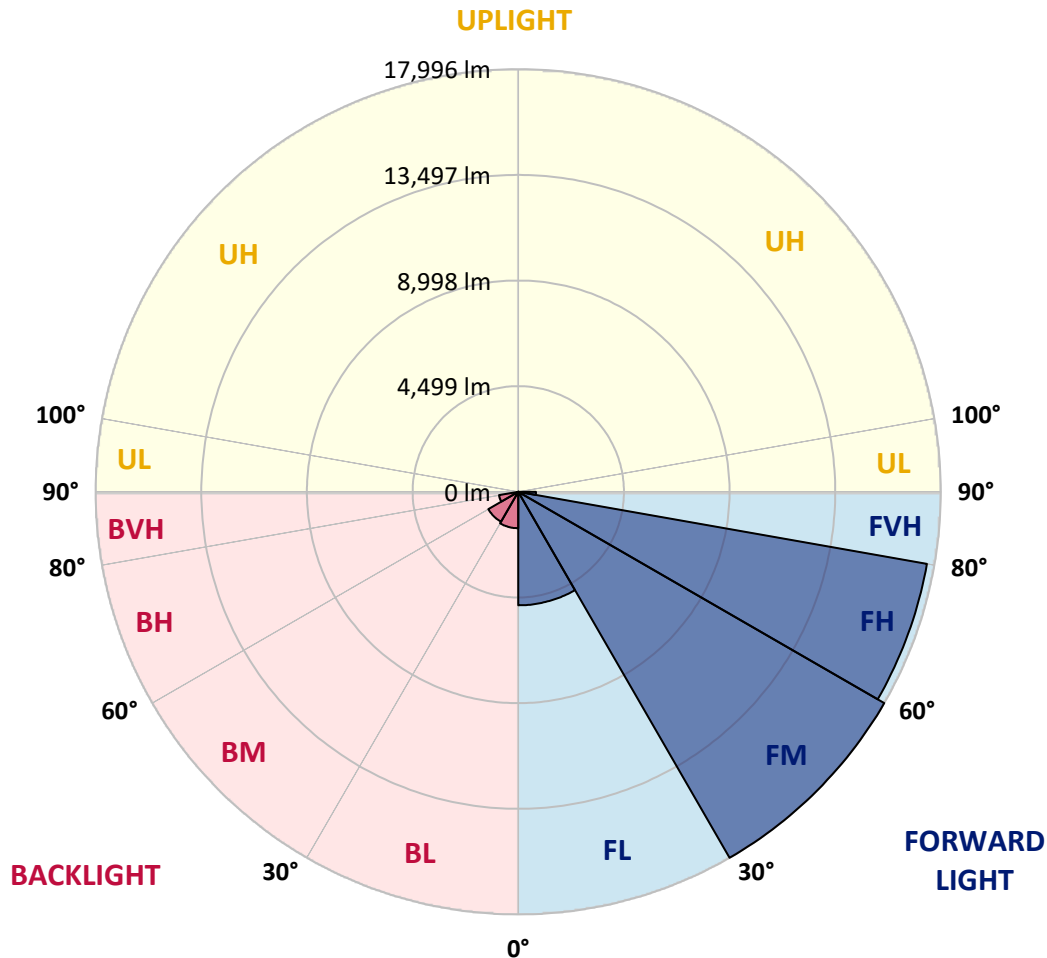


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4832.5	10.7			
FM (30°-60°)	17996.3	39.9			
FH (60°-80°)	17671.2	39.2			G5
FVH (80°-90°)	752.3	1.7			G5
BL (0°-30°)	1551.1	3.4	B3/2500		
BM (30°-60°)	1472.8	3.3	B2/2500		
BH (60°-80°)	830.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.6	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-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2
2.5°	14431.1	14395.4	14382.3	14359.8	14273.5	14189.1	14022.1	13975.2	13870.2	13620.7	13356.2
5°	14442.3	14440.4	14479.8	14470.5	14440.4	14401.1	14281.0	14219.0	14040.8	13684.4	13200.5
7.5°	13746.4	13782.0	13870.2	13941.4	14024.0	14130.9	14145.9	14085.9	13939.6	13555.0	12913.5
10°	12812.1	12868.5	12992.3	13133.0	13348.7	13562.5	13753.8	13746.4	13695.7	13316.8	12568.3
12.5°	11876.1	11941.8	12084.3	12292.5	12598.3	12947.2	13288.6	13335.6	13420.0	13103.0	12249.4
15°	11056.4	11112.6	11253.4	11508.4	11887.4	12356.3	12857.2	12943.5	13161.1	12936.0	11983.1
17.5°	10360.4	10396.1	10499.2	10782.5	11221.4	11789.9	12440.7	12609.6	12934.1	12804.7	11752.3
20°	9874.6	9880.2	9947.7	10146.6	10585.5	11221.4	12009.3	12251.2	12694.0	12692.1	11514.1
22.5°	9634.4	9615.7	9628.8	9743.2	10065.9	10679.4	11577.8	11864.8	12478.3	12596.5	11272.1
25°	9589.4	9574.4	9536.9	9551.9	9747.0	10204.7	11142.6	11474.7	12288.8	12538.3	11062.0
27.5°	9730.1	9745.1	9681.4	9613.9	9628.8	9897.0	10756.2	11140.8	12135.0	12538.3	10913.8
30°	10013.4	10020.8	9974.0	9885.9	9767.6	9810.8	10488.0	10872.6	12058.0	12624.6	10820.0
32.5°	10326.7	10367.9	10362.3	10291.0	10122.2	9947.7	10424.2	10775.0	12052.5	12816.0	10810.6
35°	10714.9	10761.9	10840.6	10825.6	10649.3	10362.3	10641.8	10917.6	12163.1	13131.1	10912.0
37.5°	11127.6	11199.0	11367.8	11448.4	11334.0	11009.5	11129.5	11326.5	12459.5	13641.3	11168.9
40°	11527.2	11607.8	11915.5	12232.5	12146.3	11812.3	11868.6	12026.2	12986.6	14374.8	11656.6
42.5°	11919.2	12039.3	12491.4	13012.9	13116.1	12849.7	12879.7	13005.4	13768.8	15383.9	12453.9
45°	12388.2	12523.3	13192.9	13836.4	14112.1	13995.9	14123.4	14205.9	14791.2	16717.7	13528.8
47.5°	13076.7	13232.4	14054.0	14787.5	15271.4	15346.5	15603.4	15657.8	16083.7	18270.9	14930.0
50°	14419.8	14462.9	15205.7	15871.7	16569.5	17019.7	17312.3	17353.6	17648.2	19968.7	16680.2
52.5°	16109.9	16138.1	16558.3	17004.7	17798.2	18717.4	19402.1	19460.2	19522.2	21623.1	18407.8
55°	17788.8	17785.1	18062.7	18325.3	19233.3	20568.9	22054.6	22090.3	21645.6	23193.2	19728.5
57.5°	18837.5	18938.7	19360.8	19698.5	20966.5	22679.3	24740.8	24872.1	23876.0	24356.2	21034.1
60°	18503.5	18552.3	19488.3	20737.7	23125.7	25678.8	27458.9	27492.7	25553.1	25517.4	22684.9
62.5°	15764.8	15791.0	17261.8	19837.3	24219.3	29569.3	30738.0	30188.3	27481.5	27128.8	24660.1
65°	10805.0	10975.7	12204.4	15387.8	22210.2	32009.8	35814.1	34904.3	30420.9	29451.2	26446.0
67.5°	6362.9	6327.3	6935.1	9279.9	16312.5	30389.0	42235.2	41331.0	34429.6	31006.2	25922.6
70°	4346.4	4322.0	4554.6	5618.3	9208.6	23574.0	44255.5	46080.7	37969.4	29959.5	22309.7
72.5°	3102.7	3115.8	3459.1	4365.1	5781.5	13735.1	38057.6	42377.7	36860.8	26117.7	16957.8
75°	2106.6	2142.3	2633.8	3581.1	5068.6	6987.6	27006.9	32214.3	30015.8	18981.9	9747.0
77.5°	1133.0	1172.4	1752.1	2885.1	4582.7	4854.8	17372.4	22170.8	18854.3	8533.3	2825.0
80°	472.8	495.2	819.8	2097.2	3959.9	4263.9	10221.6	13444.4	8034.3	1682.7	630.3
82.5°	204.5	215.7	341.4	1251.2	2960.1	3599.8	5411.9	6468.0	2434.9	369.5	317.0
85°	39.4	41.3	140.7	662.1	1889.0	2031.5	3507.8	3438.4	1093.6	159.5	230.7
87.5°	0.0	0.0	33.7	208.2	555.3	1106.8	2140.3	2114.1	371.4	76.9	86.3
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°	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2	13326.2
2.5°	13221.1	13091.7	12819.7	12483.9	12226.9	11943.7	11718.6	11433.4	11309.6	11315.2	11247.7
5°	12924.8	12658.3	12056.2	11296.5	10711.2	10107.2	9587.6	9069.8	8764.1	8664.6	8570.8
7.5°	12500.8	12078.7	11118.3	9947.7	8957.3	7989.3	7147.0	6406.1	5937.1	5708.2	5623.8
10°	12022.5	11429.6	10039.7	8497.7	7083.3	5773.9	4682.1	3733.0	3354.0	3097.0	3031.4
12.5°	11602.2	10799.3	8985.4	7010.1	5331.2	3751.7	2710.6	2119.7	1862.7	1761.5	1744.6
15°	11206.4	10210.3	7970.6	5663.3	3691.7	2309.2	1723.9	1523.2	1463.2	1446.3	1446.3
17.5°	10833.2	9649.4	6978.2	4337.0	2442.4	1618.8	1427.5	1382.5	1363.8	1361.9	1363.8
20°	10442.9	9088.6	6002.8	3177.7	1705.2	1371.2	1318.7	1294.4	1288.7	1288.7	1288.7
22.5°	10069.7	8527.7	5053.6	2269.8	1367.5	1251.2	1225.0	1208.0	1202.4	1200.6	1196.8
25°	9711.4	7994.9	4126.9	1603.8	1200.6	1146.2	1123.6	1101.1	1084.2	1074.9	1069.2
27.5°	9416.8	7520.4	3264.0	1286.8	1084.2	1037.4	1009.2	975.4	934.2	915.4	907.9
30°	9182.4	7087.0	2515.6	1086.1	975.4	928.6	885.4	827.2	767.2	735.4	733.5
32.5°	8998.6	6661.2	1909.7	960.4	877.9	819.8	757.8	684.7	615.3	579.6	577.7
35°	8908.5	6286.0	1459.5	868.5	791.6	718.5	641.6	560.9	493.3	459.6	455.8
37.5°	8968.6	5969.0	1138.6	791.6	718.5	634.0	544.0	459.6	399.5	369.5	367.7
40°	9188.0	5766.4	924.8	726.0	656.6	553.3	455.8	377.1	326.4	302.0	300.1
42.5°	9655.1	5691.4	789.8	671.6	596.6	478.3	379.0	311.4	264.5	247.6	243.9
45°	10435.5	5802.1	697.8	619.0	534.6	407.1	313.3	255.2	213.9	200.7	198.9
47.5°	11474.7	6092.8	632.1	568.4	478.3	343.3	260.7	206.3	174.5	161.3	159.5
50°	12814.1	6554.3	577.7	517.8	425.8	290.7	215.7	163.2	135.1	125.7	125.7
52.5°	14271.6	7103.9	529.0	470.8	373.3	242.0	174.5	125.7	106.9	95.7	95.7
55°	15475.9	7584.1	476.5	435.2	309.6	200.7	133.2	95.7	78.8	73.1	73.1
57.5°	16678.3	8096.3	416.4	373.3	247.6	163.2	101.3	71.3	58.1	54.4	54.4
60°	18237.2	8722.8	358.3	303.9	195.1	123.8	75.0	50.7	43.1	41.3	41.3
62.5°	19951.7	9090.4	305.7	243.9	151.9	91.9	54.4	33.7	31.9	31.9	30.0
65°	21000.3	8570.8	257.0	195.1	118.2	69.4	35.7	24.4	28.1	26.3	22.5
67.5°	19662.8	6709.9	210.1	151.9	91.9	52.5	22.5	16.9	30.0	24.4	18.7
70°	16280.7	4697.1	163.2	106.9	73.1	45.0	15.0	11.3	31.9	24.4	15.0
72.5°	12183.8	3144.0	129.4	71.3	54.4	39.4	13.1	5.6	28.1	20.7	13.1
75°	6657.5	1266.3	103.2	45.0	33.7	28.1	9.4	3.7	18.7	15.0	9.4
77.5°	1752.1	333.9	75.0	30.0	18.7	11.3	5.6	1.9	9.4	7.5	3.7
80°	446.5	129.4	48.8	20.7	13.1	5.6	0.0	0.0	1.9	0.0	0.0
82.5°	238.2	54.4	30.0	15.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	180.1	35.7	16.9	9.4	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	69.4	11.3	5.6	0.0	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)