

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: P382926

Luminaire Tested: **GLEON-SA2D-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10777.1 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

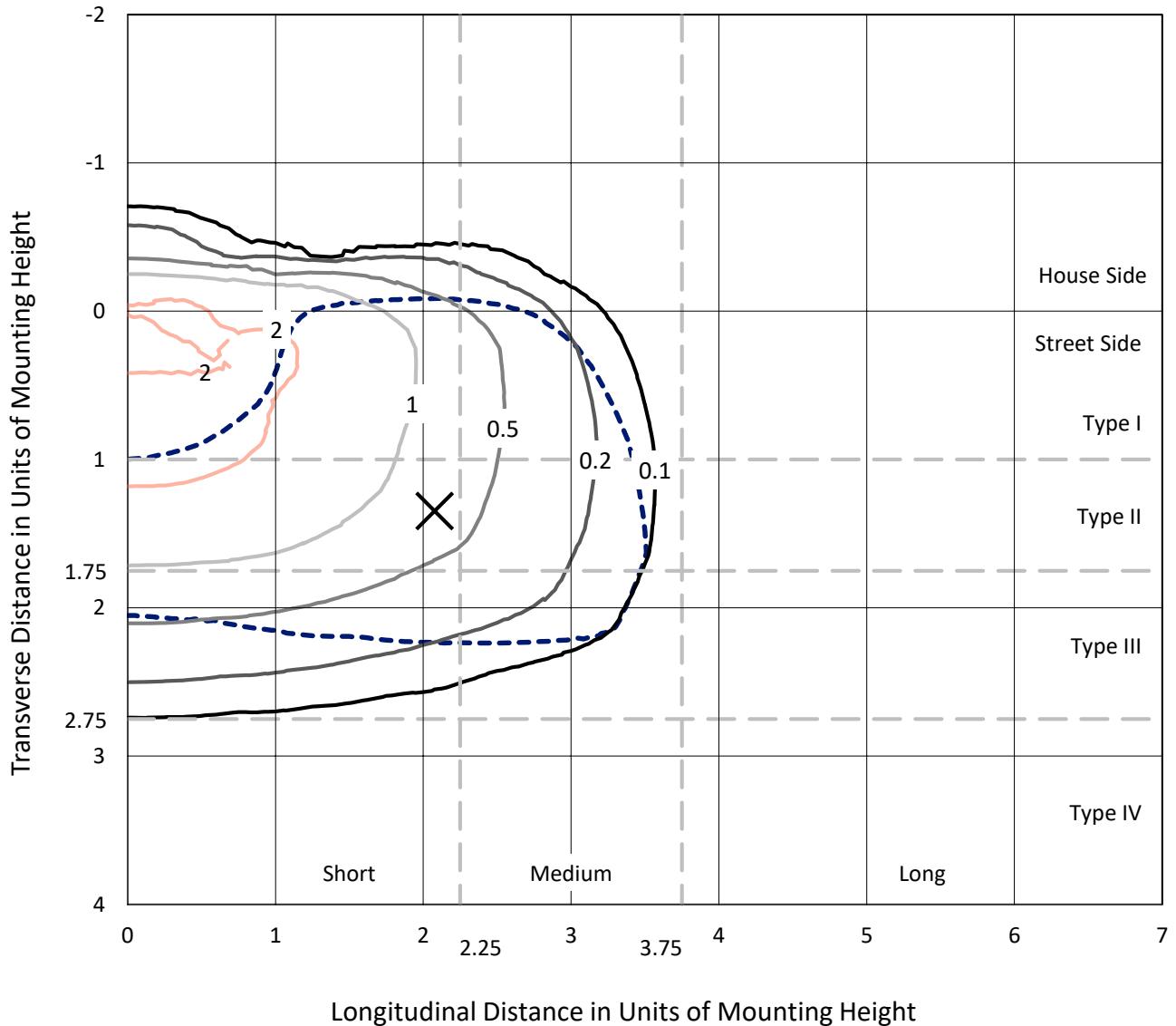
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

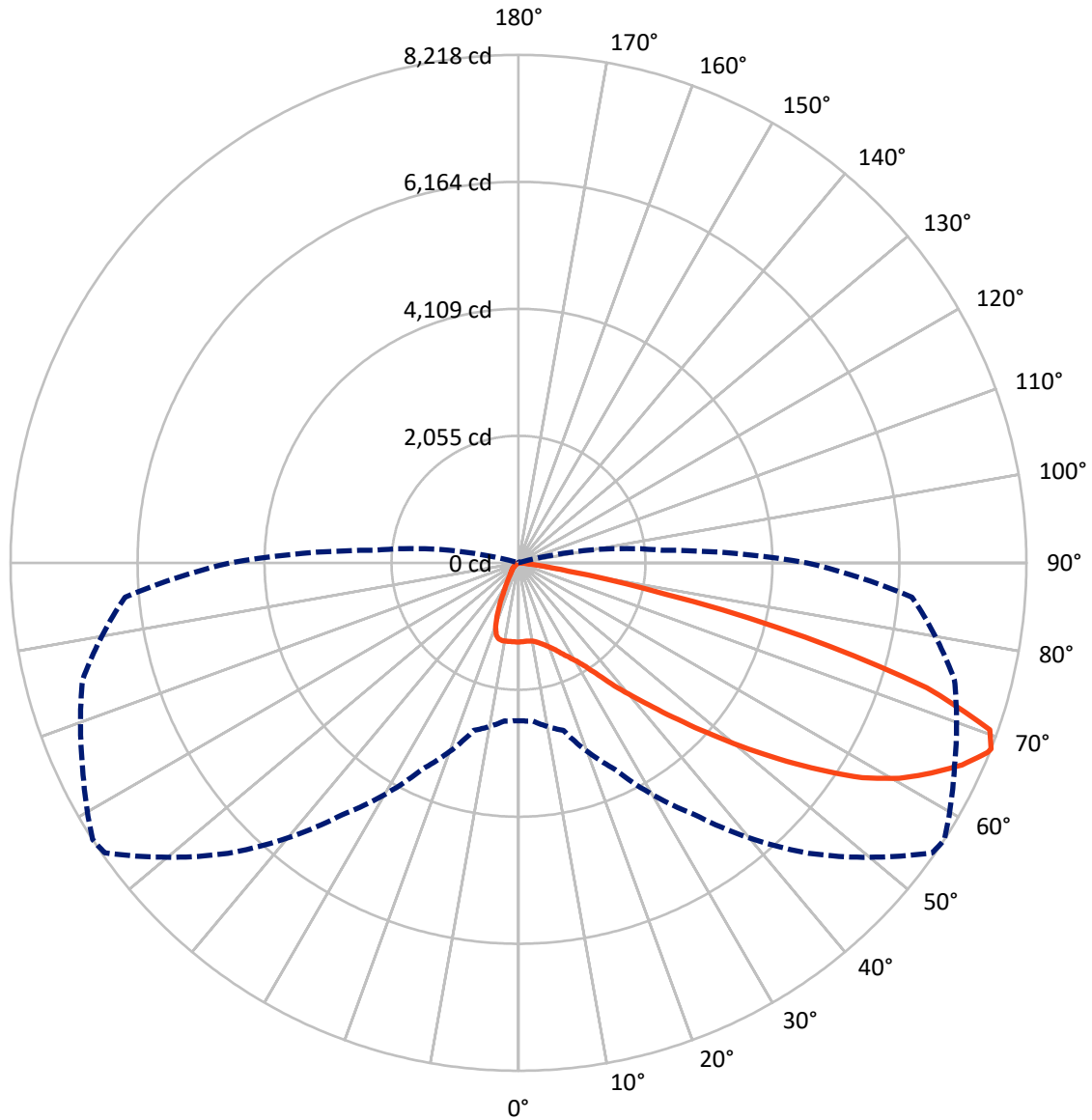
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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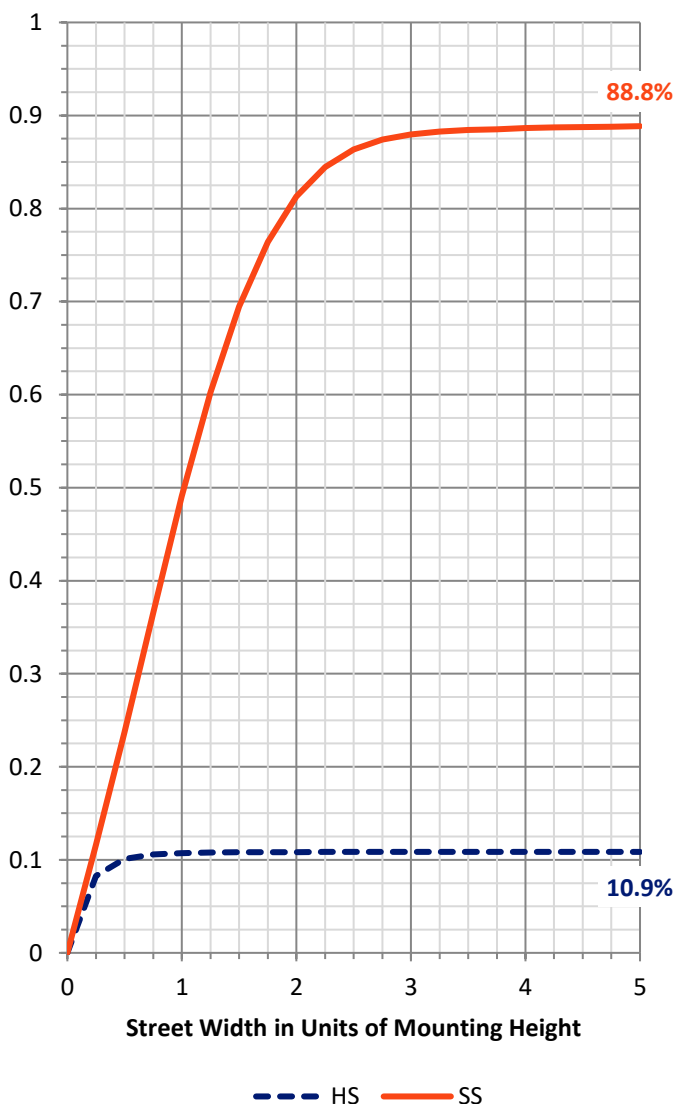
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1181.8	0.0	1181.8
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	9595.3	0.0	9595.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	10777.1	0.0	10777.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	1.1
10°-20°	332.1	3.1
20°-30°	572.9	5.3
30°-40°	988.8	9.2
40°-50°	1691.4	15.7
50°-60°	2706.0	25.1
60°-70°	3126.5	29.0
70°-80°	1194.7	11.1
80°-90°	44.8	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°	10777.1	100.0
0°-180°	10777.1	100.0

Coefficient of Utilization

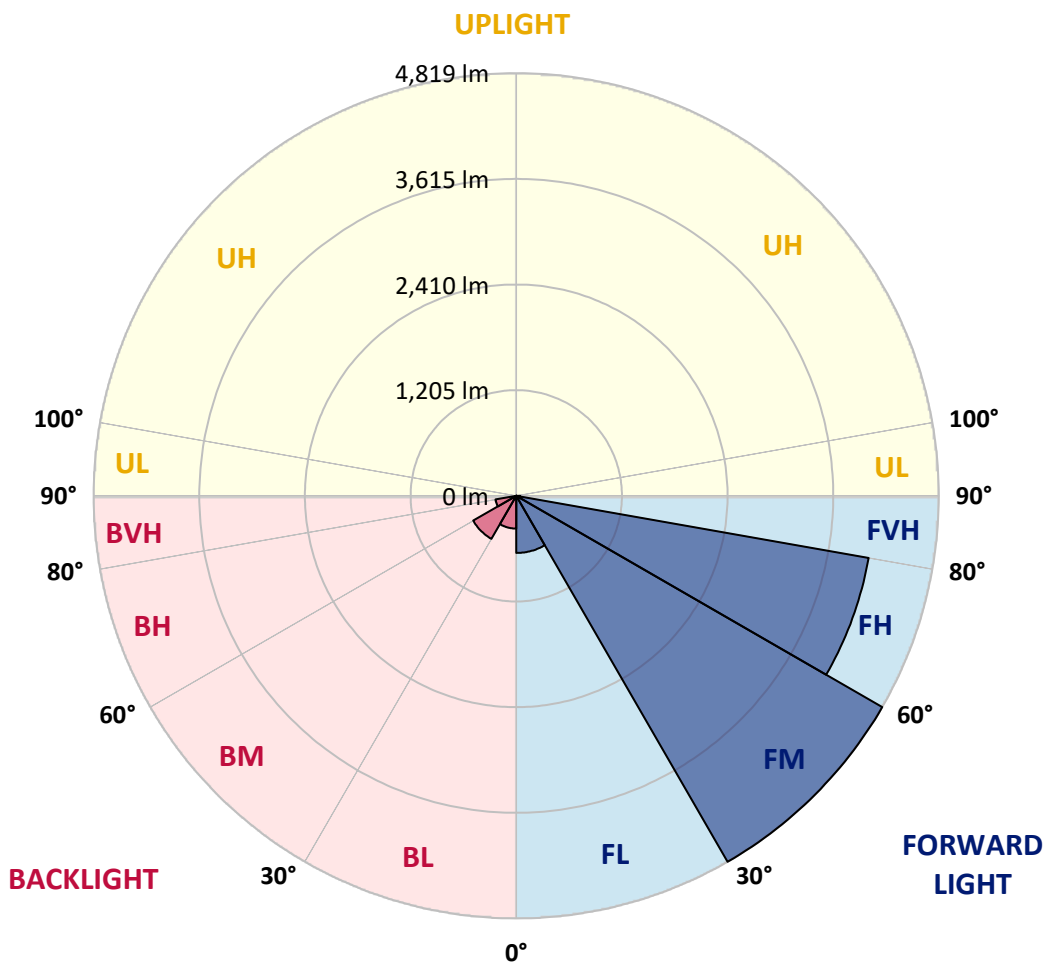


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.4	6.0			
FM (30°-60°)	4819.4	44.7			
FH (60°-80°)	4080.6	37.9			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	373.5	3.5	B1/500		
BM (30°-60°)	566.8	5.3	B1/1000		
BH (60°-80°)	240.7	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6
2.5°	1250.5	1256.1	1260.2	1262.8	1265.8	1272.4	1274.5	1277.5	1279.1	1279.1	1282.6
5°	1201.1	1207.2	1215.9	1223.0	1237.3	1255.6	1268.9	1274.0	1283.1	1291.3	1295.9
7.5°	1155.2	1162.4	1172.5	1189.4	1213.8	1243.4	1270.9	1278.1	1295.9	1313.2	1321.9
10°	1125.7	1131.3	1144.5	1168.5	1200.6	1241.8	1280.6	1289.3	1319.8	1348.9	1365.2
12.5°	1115.5	1120.6	1134.3	1161.4	1201.1	1249.5	1303.0	1315.7	1360.6	1402.9	1425.8
15°	1130.2	1131.3	1146.1	1171.5	1210.8	1268.4	1340.2	1355.5	1412.0	1467.1	1495.7
17.5°	1187.4	1182.8	1190.4	1201.6	1232.7	1293.4	1379.4	1402.4	1477.8	1542.5	1569.6
20°	1330.1	1330.1	1312.7	1282.1	1282.6	1332.1	1432.4	1458.4	1550.7	1625.6	1650.1
22.5°	1574.1	1569.6	1534.9	1460.0	1391.2	1398.8	1497.2	1530.8	1638.3	1718.3	1726.5
25°	1867.7	1862.1	1808.5	1703.1	1583.8	1506.9	1584.8	1623.6	1742.8	1813.6	1796.8
27.5°	2178.5	2174.0	2120.9	1990.0	1820.2	1679.1	1689.3	1726.0	1849.3	1919.1	1865.6
30°	2479.7	2481.2	2428.7	2294.2	2102.0	1898.8	1821.8	1843.2	1952.7	2023.6	1947.1
32.5°	2766.0	2768.1	2722.7	2572.4	2393.1	2154.0	2005.2	1999.7	2073.0	2142.8	2055.2
35°	3021.4	3026.4	2995.4	2878.7	2688.6	2438.4	2243.3	2229.9	2243.7	2322.7	2220.8
37.5°	3267.5	3270.6	3247.1	3148.7	2989.8	2750.8	2543.9	2525.1	2495.4	2556.1	2439.4
40°	3537.1	3529.4	3502.4	3413.2	3276.6	3095.7	2866.9	2834.3	2782.9	2836.9	2726.8
42.5°	3787.8	3779.1	3783.7	3682.8	3567.6	3450.5	3243.6	3187.5	3157.4	3219.6	3079.4
45°	4101.1	4096.6	4111.9	4024.2	3930.9	3845.9	3675.1	3614.0	3600.8	3673.7	3506.0
47.5°	4410.5	4421.7	4469.1	4431.9	4394.2	4319.3	4132.3	4104.8	4112.9	4201.1	3955.9
50°	4668.4	4681.6	4811.5	4854.4	4908.9	4865.1	4677.5	4660.7	4692.9	4772.3	4440.0
52.5°	4854.9	4881.9	5043.4	5240.6	5439.4	5468.9	5281.9	5266.6	5309.9	5322.1	4814.1
55°	4984.3	5008.3	5191.2	5552.0	5956.6	6084.0	5967.8	5908.7	5900.5	5779.8	5207.5
57.5°	5007.3	5004.6	5267.6	5753.2	6362.2	6690.9	6617.5	6559.5	6392.3	6202.7	5658.5
60°	4877.8	4892.6	5197.8	5823.1	6617.1	7150.1	7155.7	7080.2	6819.9	6614.0	6095.7
62.5°	4479.3	4539.4	4847.8	5640.1	6614.0	7335.0	7550.1	7492.5	7181.1	6950.8	6539.1
65°	3833.1	3854.6	4148.6	5013.3	6167.0	7257.6	7905.3	7883.9	7506.8	7278.0	6766.9
67.5°	2799.2	2752.8	3061.6	3947.8	5221.2	6806.1	8160.1	8187.1	7758.0	7345.3	6524.3
68°	2554.6	2568.4	2808.9	3684.4	4973.6	6646.6	8176.8	8218.2	7783.0	7301.4	6391.8
70°	1522.6	1549.2	1763.7	2536.7	3783.7	5744.1	7995.5	8089.7	7634.2	6849.4	5528.5
72.5°	388.8	420.4	623.2	1135.4	2161.2	4047.2	6749.5	6909.0	6628.2	5556.6	3732.2
75°	160.0	168.1	222.7	374.0	805.1	1823.3	4448.7	4790.1	4595.0	3326.6	1686.8
77.5°	110.6	116.2	143.2	207.4	348.6	618.2	2181.0	2427.7	2187.2	1135.4	368.0
80°	79.5	84.1	102.5	138.1	200.3	220.7	710.9	822.0	652.8	249.2	91.2
82.5°	47.4	51.0	76.5	98.4	121.8	105.5	176.8	200.7	189.1	123.8	40.8
85°	23.5	27.5	51.5	70.3	65.8	44.3	54.0	60.2	74.4	75.5	21.9
87.5°	1.5	3.1	30.1	42.3	18.4	10.2	15.8	19.4	26.5	37.2	9.1
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°	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6	1280.6
2.5°	1284.1	1284.7	1281.1	1279.6	1280.6	1274.5	1271.9	1273.0	1273.0	1274.5	1271.9
5°	1296.9	1296.9	1290.8	1282.6	1278.1	1266.3	1258.7	1256.7	1255.2	1254.1	1252.1
7.5°	1324.4	1321.4	1310.7	1292.8	1277.5	1252.1	1232.7	1222.5	1217.4	1215.4	1213.8
10°	1368.7	1363.1	1345.3	1312.2	1277.1	1231.7	1189.4	1159.3	1134.3	1124.2	1118.0
12.5°	1428.3	1420.2	1390.1	1335.1	1273.4	1189.9	1098.2	1010.0	928.0	894.3	877.5
15°	1497.2	1485.4	1438.0	1354.5	1252.6	1095.6	896.3	742.0	628.3	585.5	567.2
17.5°	1567.0	1551.7	1479.9	1366.8	1189.9	900.4	628.8	474.9	399.0	378.6	371.5
20°	1637.3	1614.9	1516.0	1357.5	1048.3	649.2	414.8	347.0	325.1	319.0	317.0
22.5°	1704.1	1669.4	1548.6	1321.9	830.1	435.7	328.2	306.8	299.7	296.0	295.0
25°	1762.2	1713.8	1577.2	1211.9	587.5	329.2	295.6	288.4	279.3	272.7	273.1
27.5°	1816.7	1758.1	1594.5	1030.4	391.9	281.3	273.7	264.0	247.1	237.5	237.5
30°	1882.5	1817.2	1607.3	792.9	288.4	248.7	242.6	227.8	204.8	192.1	192.1
32.5°	1981.3	1906.9	1599.1	556.5	239.0	218.6	204.4	184.0	159.0	146.7	146.3
35°	2132.6	2045.5	1541.0	364.9	211.0	190.0	167.1	142.2	120.3	110.1	109.5
37.5°	2336.5	2231.0	1410.5	260.9	189.1	163.6	136.1	108.5	92.2	85.6	85.1
40°	2601.0	2446.5	1224.1	211.5	168.7	138.1	105.0	84.1	72.8	67.8	68.3
42.5°	2918.4	2677.4	1000.3	182.4	148.8	113.6	82.1	66.2	59.2	55.5	54.5
45°	3271.0	2905.2	765.9	162.6	128.9	91.8	64.2	52.4	46.9	44.8	44.8
47.5°	3658.8	3126.8	560.5	145.2	107.5	70.8	51.5	42.9	38.2	36.7	36.1
50°	4011.0	3280.7	404.1	126.9	88.1	56.1	41.8	35.7	32.6	30.6	30.6
52.5°	4304.5	3329.2	297.6	107.0	71.4	44.8	34.7	30.6	27.5	26.0	26.0
55°	4562.9	3309.3	221.1	88.1	57.6	36.7	29.5	26.0	23.5	21.9	21.9
57.5°	4810.5	3245.0	165.1	71.8	46.4	29.5	25.0	21.9	19.4	18.4	18.4
60°	5012.8	3138.0	122.8	58.1	37.2	23.9	20.9	17.8	15.8	14.3	14.3
62.5°	5176.9	3019.8	90.2	47.9	29.5	18.8	16.3	14.8	11.7	10.2	10.2
65°	5177.9	2823.6	67.8	39.8	22.9	14.8	12.2	11.7	7.6	6.1	5.6
67.5°	4803.4	2434.3	52.0	34.2	17.8	11.2	9.1	9.7	4.1	2.5	2.0
68°	4667.3	2335.5	48.9	33.6	16.9	10.7	8.7	9.7	3.5	2.0	1.5
70°	3935.0	1858.0	39.2	32.6	14.8	8.2	7.2	9.7	3.1	1.5	1.0
72.5°	2516.9	1078.3	29.1	26.0	11.2	6.1	4.6	8.7	3.1	1.0	0.5
75°	1071.2	334.3	19.8	18.4	6.6	4.6	3.1	5.6	2.0	0.5	0.0
77.5°	225.7	75.5	11.7	11.2	4.6	3.1	2.0	1.5	0.5	0.0	0.0
80°	58.1	21.9	6.1	5.6	2.5	1.5	1.0	0.0	0.0	0.0	0.0
82.5°	18.4	8.7	3.5	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	5.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.5	0.5	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)