

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: P322366

Luminaire Tested: **GLEON-SA2C-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322366
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-SA2C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA 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: 7753 lumens
Efficiency: N/A
Efficacy: 68.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

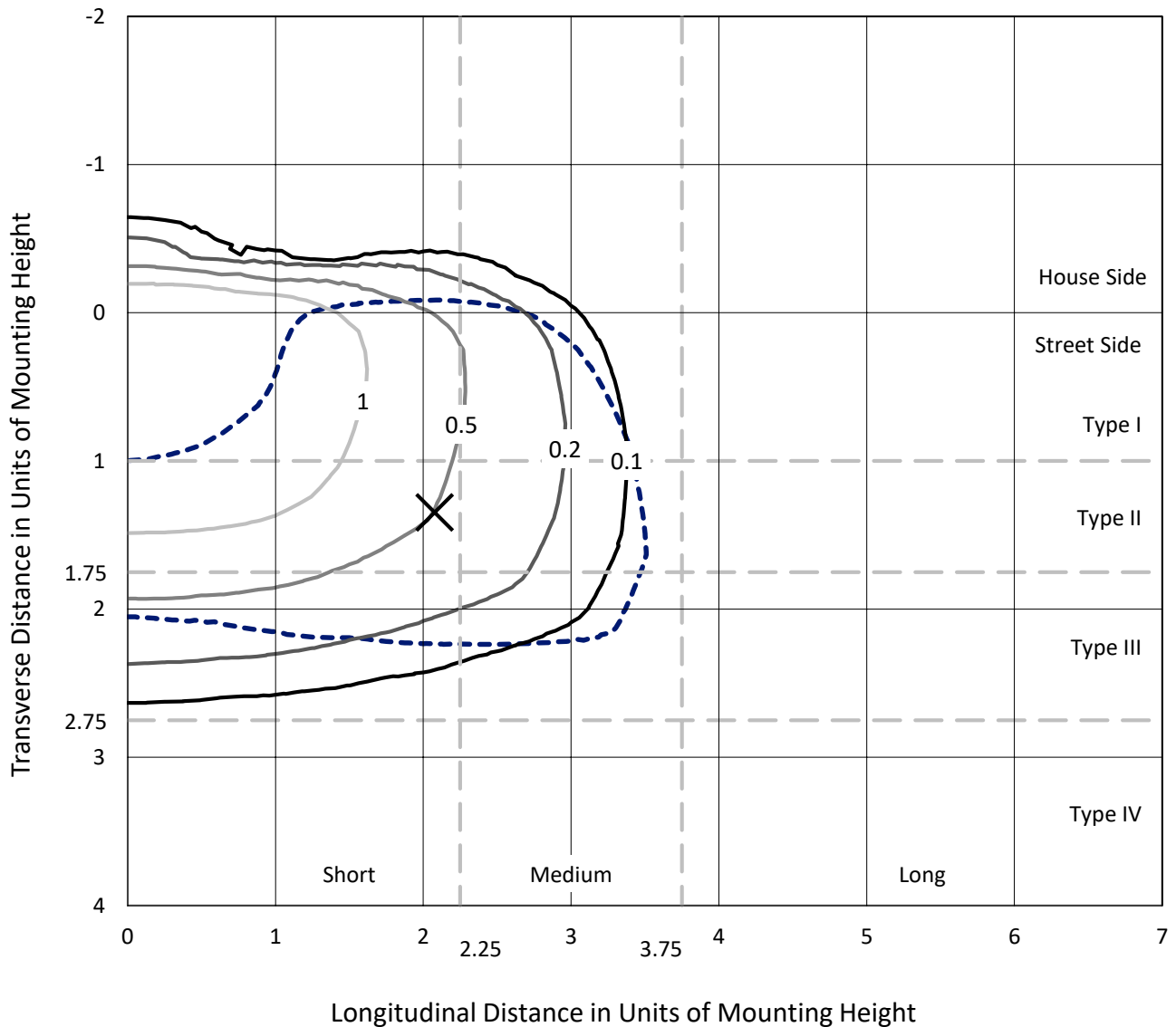
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

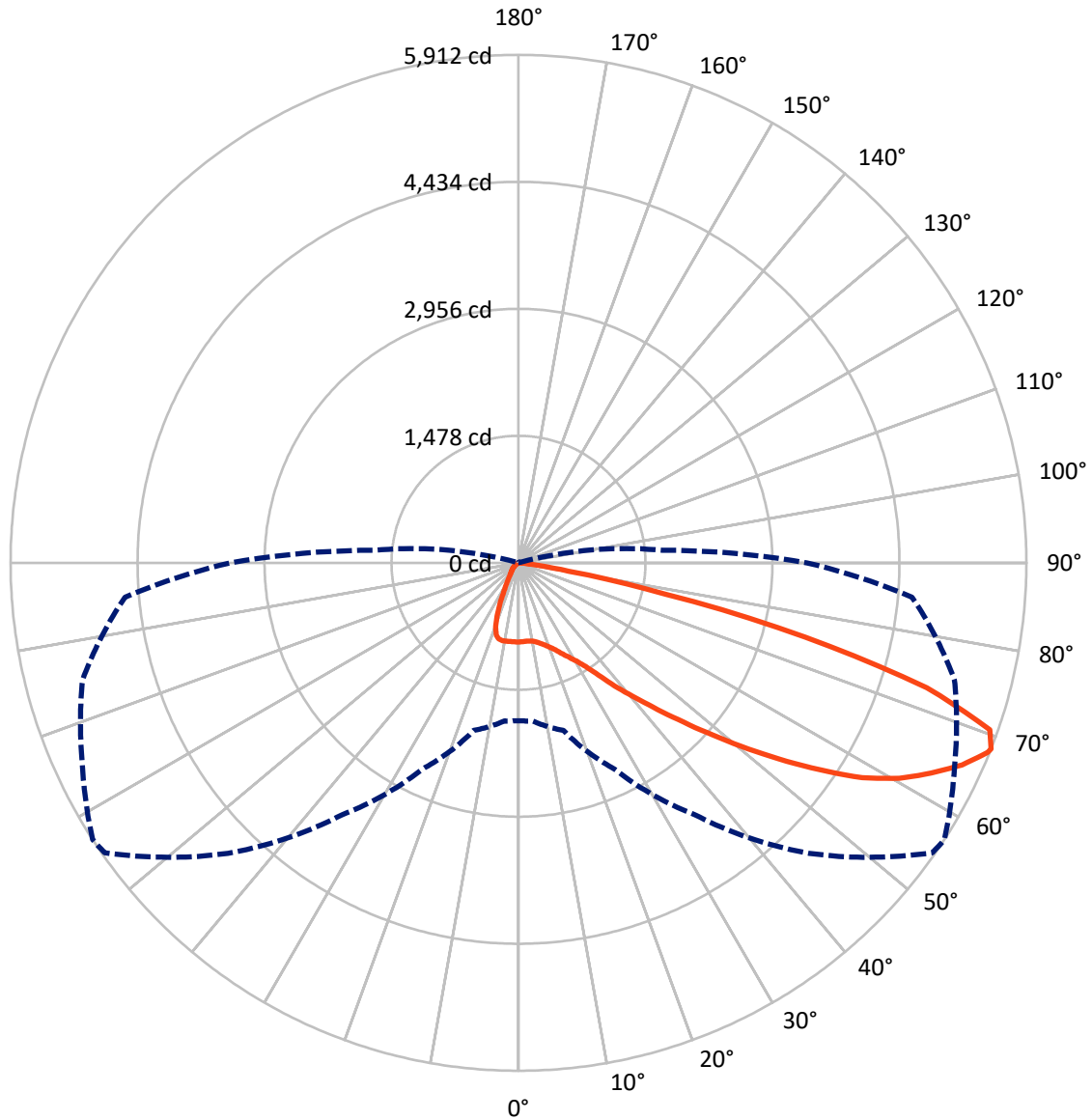
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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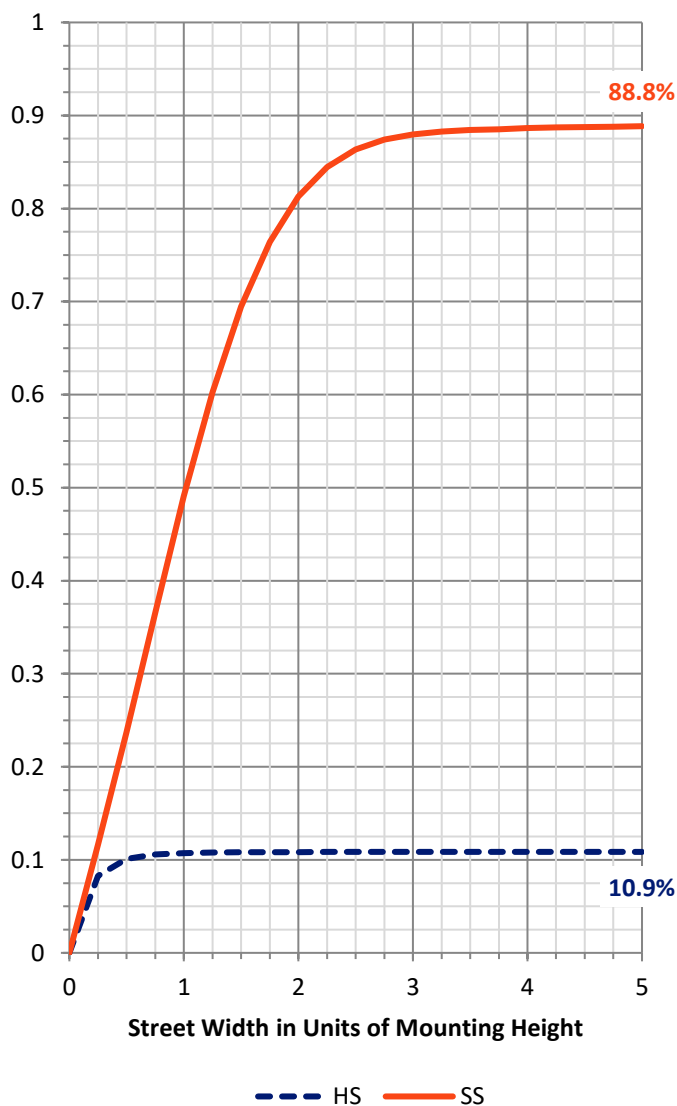
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	850.2	0.0	850.2
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	6902.8	0.0	6902.8
	% Fixture	89.0	0.0	89.0
Total	Lumens	7753.0	0.0	7753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.2	1.1
10°-20°	238.9	3.1
20°-30°	412.1	5.3
30°-40°	711.3	9.2
40°-50°	1216.8	15.7
50°-60°	1946.7	25.1
60°-70°	2249.2	29.0
70°-80°	859.5	11.1
80°-90°	32.2	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°	7753.0	100.0
0°-180°	7753.0	100.0

Coefficient of Utilization



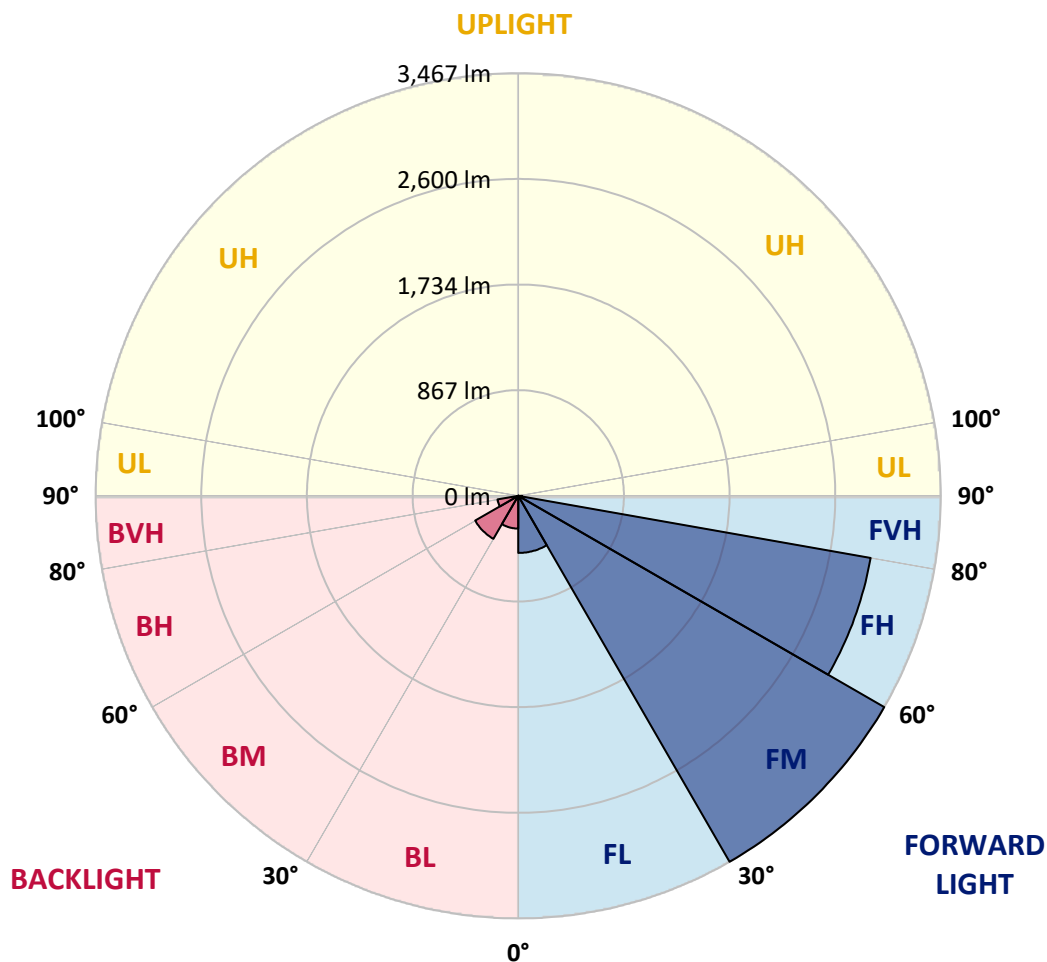
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	468.6	6.0			
FM (30°-60°)	3467.1	44.7			
FH (60°-80°)	2935.5	37.9			G2/5000
FVH (80°-90°)	31.6	0.4			G1/100
BL (0°-30°)	268.7	3.5	B1/500		
BM (30°-60°)	407.8	5.3	B1/1000		
BH (60°-80°)	173.1	2.2	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	899.6	903.7	906.6	908.4	910.6	915.4	916.9	919.1	920.2	920.2	922.7
5°	864.1	868.5	874.7	879.8	890.1	903.3	912.8	916.5	923.1	929.0	932.3
7.5°	831.1	836.2	843.5	855.6	873.2	894.5	914.3	919.4	932.3	944.7	951.0
10°	809.8	813.8	823.4	840.6	863.7	893.4	921.3	927.5	949.5	970.4	982.1
12.5°	802.5	806.1	816.0	835.5	864.1	898.9	937.4	946.6	978.8	1009.2	1025.7
15°	813.1	813.8	824.5	842.8	871.0	912.5	964.2	975.2	1015.8	1055.4	1076.0
17.5°	854.2	850.9	856.4	864.4	886.8	930.4	992.4	1008.9	1063.1	1109.7	1129.1
20°	956.8	956.8	944.4	922.4	922.7	958.3	1030.5	1049.2	1115.6	1169.4	1187.0
22.5°	1132.4	1129.1	1104.2	1050.3	1000.8	1006.3	1077.1	1101.3	1178.6	1236.2	1242.0
25°	1343.6	1339.5	1301.1	1225.2	1139.4	1084.0	1140.1	1168.0	1253.8	1304.7	1292.6
27.5°	1567.2	1563.9	1525.8	1431.6	1309.5	1207.9	1215.3	1241.7	1330.4	1380.6	1342.1
30°	1783.9	1785.0	1747.2	1650.4	1512.2	1365.9	1310.6	1326.0	1404.8	1455.8	1400.8
32.5°	1989.9	1991.4	1958.7	1850.6	1721.5	1549.6	1442.6	1438.5	1491.3	1541.5	1478.5
35°	2173.6	2177.2	2154.9	2070.9	1934.2	1754.2	1613.8	1604.2	1614.1	1671.0	1597.6
37.5°	2350.6	2352.8	2336.0	2265.2	2150.8	1978.9	1830.1	1816.5	1795.2	1838.9	1754.9
40°	2544.6	2539.1	2519.6	2455.5	2357.2	2227.1	2062.5	2039.0	2002.0	2040.9	1961.7
42.5°	2724.9	2718.7	2722.0	2649.4	2566.6	2482.2	2333.4	2293.1	2271.4	2316.2	2215.4
45°	2950.4	2947.1	2958.1	2895.0	2827.9	2766.7	2643.9	2599.9	2590.4	2642.8	2522.2
47.5°	3172.9	3181.0	3215.1	3188.3	3161.2	3107.3	2972.7	2952.9	2958.8	3022.2	2845.9
50°	3358.4	3367.9	3461.4	3492.2	3531.4	3499.9	3365.0	3352.9	3376.0	3433.2	3194.2
52.5°	3492.6	3512.0	3628.2	3770.1	3913.1	3934.3	3799.8	3788.8	3820.0	3828.7	3463.3
55°	3585.7	3602.9	3734.5	3994.1	4285.2	4376.8	4293.2	4250.7	4244.8	4158.0	3746.3
57.5°	3602.2	3600.4	3789.5	4138.9	4577.0	4813.4	4760.6	4718.8	4598.6	4462.2	4070.7
60°	3509.1	3519.7	3739.3	4189.1	4760.3	5143.7	5147.8	5093.5	4906.2	4758.1	4385.2
62.5°	3222.4	3265.7	3487.4	4057.5	4758.1	5276.8	5431.5	5390.1	5166.1	5000.4	4704.2
65°	2757.6	2772.9	2984.5	3606.6	4436.6	5221.1	5687.0	5671.6	5400.4	5235.8	4868.1
67.5°	2013.7	1980.4	2202.5	2840.0	3756.2	4896.3	5870.3	5889.8	5581.1	5284.1	4693.6
68°	1837.8	1847.7	2020.7	2650.5	3578.0	4781.5	5882.4	5912.1	5599.1	5252.6	4598.2
70°	1095.4	1114.5	1268.8	1824.9	2722.0	4132.3	5751.9	5819.7	5492.0	4927.4	3977.2
72.5°	279.7	302.4	448.3	816.8	1554.7	2911.5	4855.6	4970.3	4768.3	3997.4	2685.0
75°	115.1	121.0	160.2	269.1	579.2	1311.7	3200.4	3446.0	3305.6	2393.2	1213.4
77.5°	79.6	83.6	103.0	149.2	250.8	444.7	1569.0	1746.5	1573.4	816.8	264.7
80°	57.2	60.5	73.7	99.3	144.1	158.7	511.4	591.3	469.6	179.3	65.6
82.5°	34.1	36.7	55.0	70.8	87.6	75.9	127.2	144.4	136.0	89.1	29.3
85°	16.9	19.8	37.0	50.6	47.3	31.9	38.9	43.3	53.5	54.3	15.8
87.5°	1.1	2.2	21.6	30.4	13.2	7.3	11.4	13.9	19.1	26.8	6.6
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°	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3	921.3
2.5°	923.8	924.2	921.6	920.5	921.3	916.9	915.0	915.8	915.8	916.9	915.0
5°	933.0	933.0	928.6	922.7	919.4	911.0	905.5	904.0	902.9	902.2	900.7
7.5°	952.8	950.6	942.9	930.1	919.1	900.7	886.8	879.5	875.8	874.3	873.2
10°	984.7	980.6	967.8	944.0	918.7	886.1	855.6	834.0	816.0	808.7	804.3
12.5°	1027.6	1021.7	1000.1	960.5	916.1	856.0	790.0	726.6	667.6	643.4	631.3
15°	1077.1	1068.6	1034.5	974.4	901.1	788.2	644.8	533.8	452.0	421.2	408.0
17.5°	1127.3	1116.3	1064.6	983.2	856.0	647.8	452.4	341.7	287.0	272.4	267.2
20°	1177.9	1161.7	1090.6	976.6	754.1	467.0	298.4	249.7	233.9	229.5	228.0
22.5°	1225.9	1201.0	1114.1	951.0	597.2	313.4	236.1	220.7	215.6	213.0	212.3
25°	1267.7	1232.9	1134.6	871.8	422.7	236.8	212.6	207.5	200.9	196.1	196.5
27.5°	1306.9	1264.8	1147.1	741.3	281.9	202.4	196.9	189.9	177.8	170.8	170.8
30°	1354.2	1307.3	1156.3	570.4	207.5	178.9	174.5	163.9	147.4	138.2	138.2
32.5°	1425.3	1371.8	1150.4	400.3	171.9	157.3	147.0	132.3	114.4	105.6	105.2
35°	1534.2	1471.5	1108.6	262.5	151.8	136.7	120.2	102.3	86.5	79.2	78.8
37.5°	1680.9	1605.0	1014.7	187.7	136.0	117.7	97.9	78.1	66.4	61.6	61.2
40°	1871.1	1760.0	880.6	152.1	121.3	99.3	75.5	60.5	52.4	48.8	49.1
42.5°	2099.5	1926.1	719.6	131.2	107.0	81.8	59.0	47.7	42.5	40.0	39.2
45°	2353.2	2090.0	551.0	116.9	92.7	66.0	46.2	37.8	33.7	32.3	32.3
47.5°	2632.2	2249.4	403.3	104.5	77.4	51.0	37.0	30.8	27.5	26.4	26.0
50°	2885.5	2360.2	290.7	91.3	63.4	40.3	30.1	25.7	23.5	22.0	22.0
52.5°	3096.7	2395.0	214.1	77.0	51.3	32.3	24.9	22.0	19.8	18.7	18.7
55°	3282.5	2380.7	159.1	63.4	41.4	26.4	21.3	18.7	16.9	15.8	15.8
57.5°	3460.7	2334.5	118.8	51.7	33.4	21.3	18.0	15.8	13.9	13.2	13.2
60°	3606.2	2257.5	88.4	41.8	26.8	17.2	15.0	12.8	11.4	10.3	10.3
62.5°	3724.3	2172.5	64.9	34.5	21.3	13.6	11.7	10.6	8.4	7.3	7.3
65°	3725.0	2031.3	48.8	28.6	16.5	10.6	8.8	8.4	5.5	4.4	4.0
67.5°	3455.6	1751.2	37.4	24.6	12.8	8.1	6.6	7.0	2.9	1.8	1.5
68°	3357.7	1680.1	35.2	24.2	12.1	7.7	6.2	7.0	2.6	1.5	1.1
70°	2830.9	1336.6	28.2	23.5	10.6	5.9	5.1	7.0	2.2	1.1	0.7
72.5°	1810.6	775.7	20.9	18.7	8.1	4.4	3.3	6.2	2.2	0.7	0.4
75°	770.6	240.5	14.3	13.2	4.8	3.3	2.2	4.0	1.5	0.4	0.0
77.5°	162.4	54.3	8.4	8.1	3.3	2.2	1.5	1.1	0.4	0.0	0.0
80°	41.8	15.8	4.4	4.0	1.8	1.1	0.7	0.0	0.0	0.0	0.0
82.5°	13.2	6.2	2.6	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.6	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.1	0.4	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)