

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: P322347

Luminaire Tested: **GLEON-SA3A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322347
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-SA3A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 7621 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 96
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

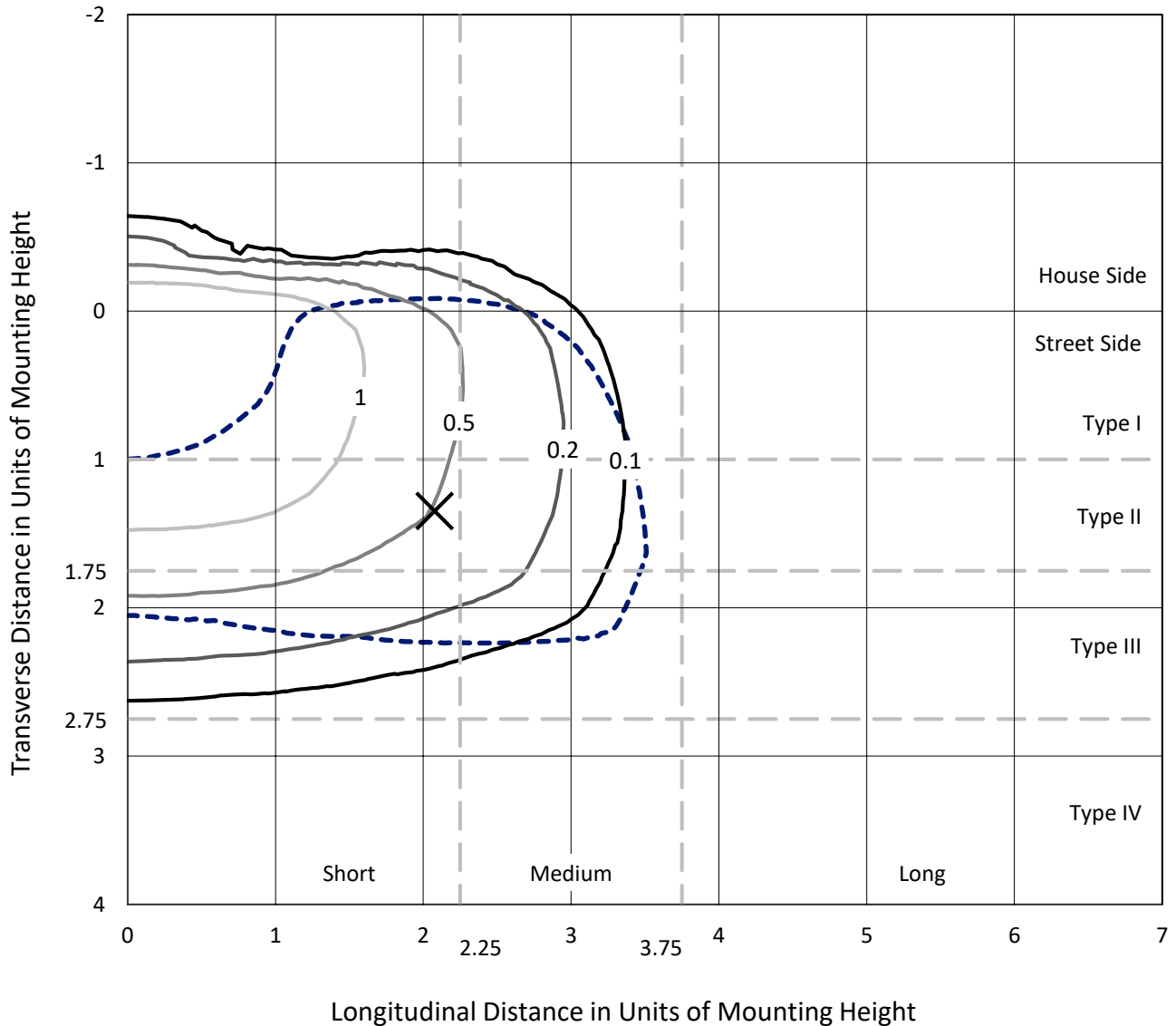




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Iso-Footcandle Lines of Horizontal Illumination

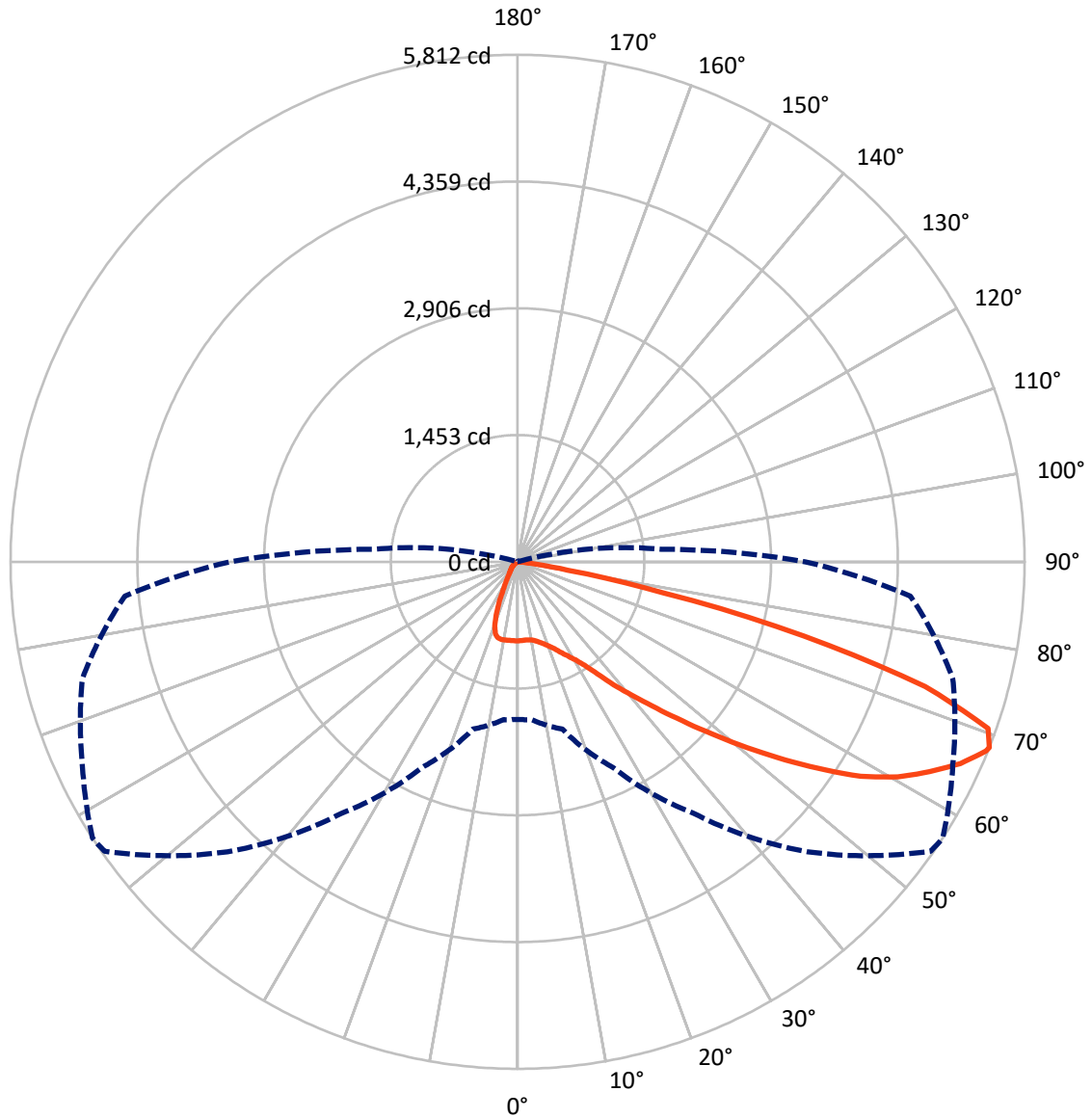
× Max cd
 - - - 1/2 Max cd



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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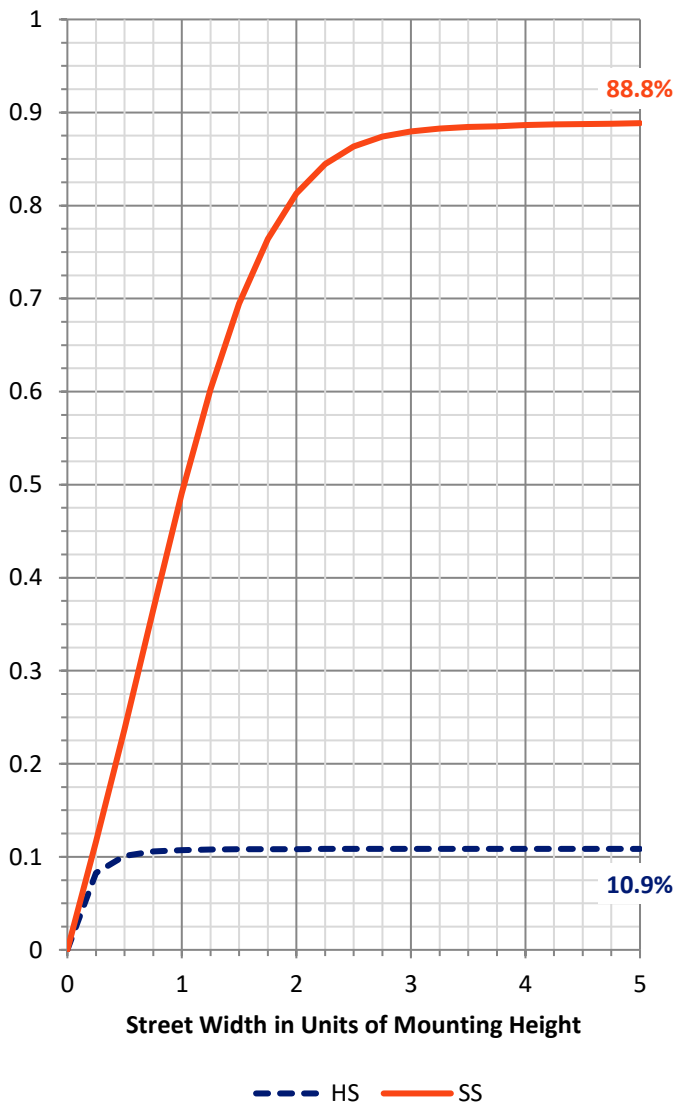
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	835.7	0.0	835.7
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	6785.3	0.0	6785.3
	% Fixture	89.0	0.0	89.0
Total	Lumens	7621.0	0.0	7621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.1
10°-20°	234.8	3.1
20°-30°	405.1	5.3
30°-40°	699.2	9.2
40°-50°	1196.1	15.7
50°-60°	1913.6	25.1
60°-70°	2210.9	29.0
70°-80°	844.8	11.1
80°-90°	31.7	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°	7621.0	100.0
0°-180°	7621.0	100.0

Coefficient of Utilization



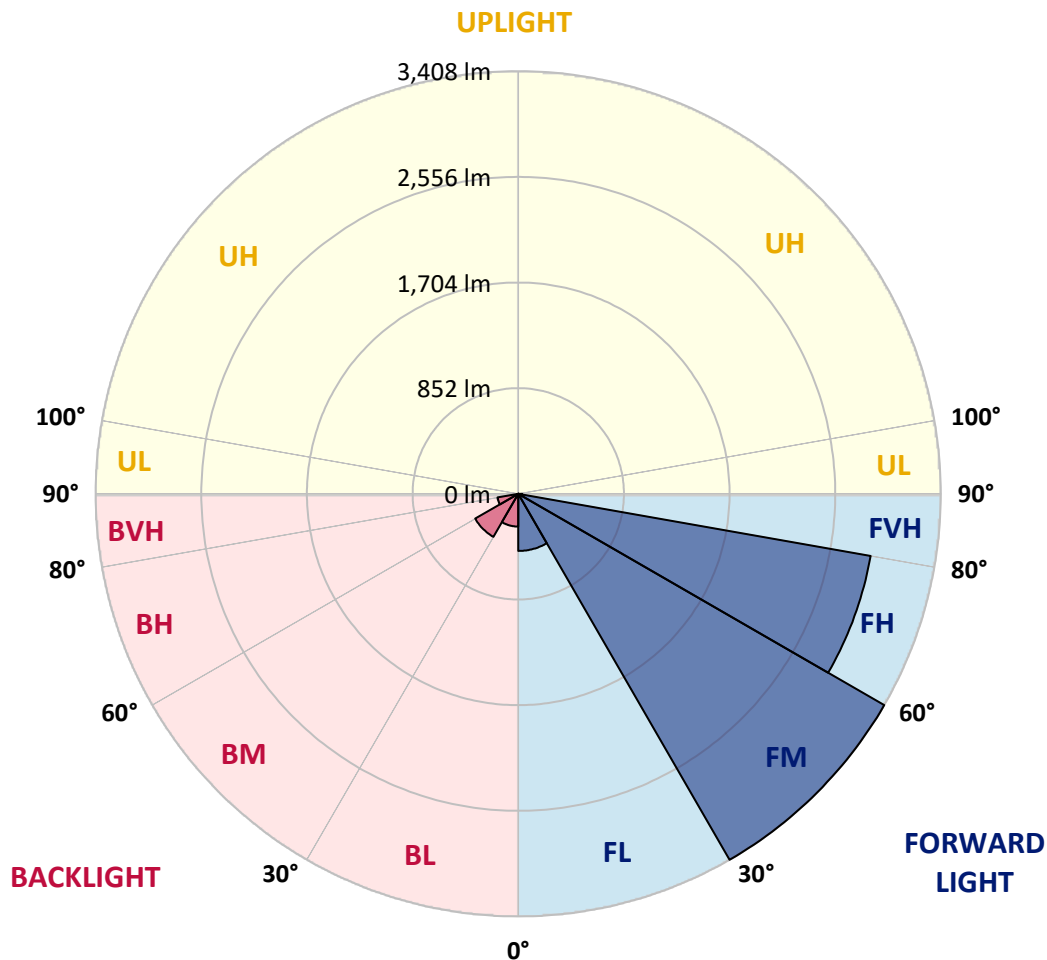
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.6	6.0			
FM (30°-60°)	3408.0	44.7			
FH (60°-80°)	2885.6	37.9			G2/5000
FVH (80°-90°)	31.1	0.4			G1/100
BL (0°-30°)	264.1	3.5	B1/500		
BM (30°-60°)	400.8	5.3	B1/1000		
BH (60°-80°)	170.2	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°	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6
2.5°	884.3	888.3	891.2	893.0	895.1	899.8	901.3	903.4	904.5	904.5	907.0
5°	849.4	853.7	859.8	864.9	874.9	887.9	897.3	900.9	907.4	913.1	916.4
7.5°	816.9	822.0	829.2	841.1	858.4	879.3	898.7	903.8	916.4	928.6	934.8
10°	796.0	800.0	809.4	826.3	849.0	878.2	905.6	911.7	933.3	953.9	965.4
12.5°	788.8	792.4	802.2	821.3	849.4	883.6	921.4	930.4	962.2	992.1	1008.3
15°	799.3	800.0	810.4	828.5	856.2	896.9	947.7	958.5	998.5	1037.5	1057.6
17.5°	839.6	836.4	841.8	849.7	871.7	914.6	975.5	991.7	1045.0	1090.8	1109.9
20°	940.5	940.5	928.3	906.7	907.0	942.0	1013.0	1031.3	1096.6	1149.5	1166.8
22.5°	1113.1	1109.9	1085.4	1032.4	983.8	989.2	1058.7	1082.5	1158.5	1215.1	1220.9
25°	1320.7	1316.7	1278.9	1204.3	1120.0	1065.6	1120.7	1148.1	1232.4	1282.5	1270.6
27.5°	1540.5	1537.3	1499.8	1407.2	1287.2	1187.4	1194.6	1220.5	1307.7	1357.1	1319.3
30°	1753.5	1754.6	1717.5	1622.3	1486.5	1342.7	1288.3	1303.4	1380.9	1431.0	1376.9
32.5°	1956.0	1957.5	1925.4	1819.1	1692.2	1523.2	1418.0	1414.0	1465.9	1515.3	1453.3
35°	2136.6	2140.2	2118.2	2035.7	1901.2	1724.3	1586.3	1576.9	1586.6	1642.5	1570.4
37.5°	2310.6	2312.8	2296.2	2226.6	2114.2	1945.2	1798.9	1785.6	1764.7	1807.5	1725.0
40°	2501.2	2495.8	2476.7	2413.7	2317.1	2189.2	2027.4	2004.3	1967.9	2006.1	1928.3
42.5°	2678.5	2672.4	2675.6	2604.3	2522.9	2440.0	2293.7	2254.0	2232.8	2276.7	2177.6
45°	2900.1	2896.9	2907.7	2845.7	2779.8	2719.6	2598.9	2555.6	2546.3	2597.8	2479.3
47.5°	3118.9	3126.8	3160.3	3134.0	3107.4	3054.4	2922.1	2902.7	2908.4	2970.8	2797.4
50°	3301.2	3310.6	3402.5	3432.8	3471.3	3440.3	3307.7	3295.8	3318.5	3374.7	3139.8
52.5°	3433.1	3452.2	3566.4	3705.9	3846.4	3867.3	3735.1	3724.3	3754.9	3763.6	3404.3
55°	3524.6	3541.6	3671.0	3926.1	4212.2	4302.3	4220.1	4178.3	4172.6	4087.2	3682.5
57.5°	3540.9	3539.1	3725.0	4068.4	4499.1	4731.5	4679.6	4638.5	4520.3	4386.3	4001.4
60°	3449.3	3459.8	3675.6	4117.8	4679.2	5056.2	5060.1	5006.8	4822.7	4677.1	4310.6
62.5°	3167.5	3210.1	3428.1	3988.4	4677.1	5187.0	5339.0	5298.3	5078.1	4915.3	4624.1
65°	2710.6	2725.7	2933.7	3545.2	4361.0	5132.2	5590.2	5575.1	5308.4	5146.6	4785.2
67.5°	1979.4	1946.6	2165.0	2791.7	3692.2	4812.9	5770.4	5789.5	5486.1	5194.2	4613.6
68°	1806.5	1816.2	1986.3	2605.4	3517.1	4700.1	5782.3	5811.5	5503.7	5163.2	4520.0
70°	1076.7	1095.5	1247.2	1793.9	2675.6	4061.9	5654.0	5720.7	5398.5	4843.6	3909.5
72.5°	275.0	297.3	440.7	802.9	1528.3	2862.0	4772.9	4885.7	4687.2	3929.3	2639.3
75°	113.2	118.9	157.5	264.5	569.4	1289.4	3145.9	3387.4	3249.3	2352.4	1192.8
77.5°	78.2	82.2	101.3	146.7	246.5	437.1	1542.3	1716.7	1546.6	802.9	260.2
80°	56.2	59.5	72.4	97.7	141.6	156.0	502.7	581.3	461.6	176.2	64.5
82.5°	33.5	36.0	54.1	69.5	86.1	74.6	125.0	142.0	133.7	87.6	28.8
85°	16.6	19.5	36.4	49.7	46.5	31.4	38.2	42.5	52.6	53.3	15.5
87.5°	1.1	2.2	21.3	29.9	13.0	7.2	11.2	13.7	18.7	26.3	6.5
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°	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6	905.6
2.5°	908.1	908.5	905.9	904.9	905.6	901.3	899.4	900.2	900.2	901.3	899.4
5°	917.1	917.1	912.8	907.0	903.8	895.5	890.1	888.6	887.6	886.8	885.4
7.5°	936.6	934.4	926.8	914.2	903.4	885.4	871.7	864.5	860.9	859.5	858.4
10°	967.9	964.0	951.3	927.9	903.1	871.0	841.1	819.8	802.2	794.9	790.6
12.5°	1010.1	1004.3	983.1	944.1	900.5	841.4	776.6	714.2	656.2	632.4	620.5
15°	1058.7	1050.4	1016.9	957.8	885.8	774.8	633.9	524.7	444.3	414.0	401.1
17.5°	1108.1	1097.3	1046.5	966.5	841.4	636.7	444.7	335.9	282.2	267.7	262.7
20°	1157.8	1142.0	1072.1	960.0	741.3	459.1	293.3	245.4	229.9	225.6	224.1
22.5°	1205.0	1180.5	1095.1	934.8	587.0	308.1	232.1	216.9	211.9	209.4	208.6
25°	1246.1	1211.9	1115.3	856.9	415.5	232.8	209.0	204.0	197.5	192.8	193.2
27.5°	1284.7	1243.2	1127.6	728.6	277.1	198.9	193.5	186.7	174.8	167.9	167.9
30°	1331.2	1285.0	1136.6	560.7	204.0	175.9	171.5	161.1	144.9	135.9	135.9
32.5°	1401.1	1348.5	1130.8	393.5	169.0	154.6	144.5	130.1	112.4	103.8	103.4
35°	1508.1	1446.5	1089.7	258.0	149.2	134.4	118.2	100.5	85.0	77.8	77.5
37.5°	1652.2	1577.6	997.5	184.5	133.7	115.7	96.2	76.8	65.2	60.5	60.2
40°	1839.3	1730.1	865.6	149.5	119.3	97.7	74.2	59.5	51.5	47.9	48.3
42.5°	2063.8	1893.3	707.4	129.0	105.2	80.4	58.0	46.8	41.8	39.3	38.6
45°	2313.1	2054.4	541.6	115.0	91.2	64.9	45.4	37.1	33.2	31.7	31.7
47.5°	2587.4	2211.1	396.4	102.7	76.0	50.1	36.4	30.3	27.0	25.9	25.6
50°	2836.4	2320.0	285.8	89.7	62.3	39.6	29.5	25.2	23.1	21.6	21.6
52.5°	3043.9	2354.2	210.4	75.7	50.4	31.7	24.5	21.6	19.5	18.4	18.4
55°	3226.6	2340.2	156.4	62.3	40.7	25.9	20.9	18.4	16.6	15.5	15.5
57.5°	3401.8	2294.7	116.8	50.8	32.8	20.9	17.7	15.5	13.7	13.0	13.0
60°	3544.8	2219.1	86.8	41.1	26.3	16.9	14.8	12.6	11.2	10.1	10.1
62.5°	3660.9	2135.5	63.8	33.9	20.9	13.3	11.5	10.5	8.3	7.2	7.2
65°	3661.6	1996.7	47.9	28.1	16.2	10.5	8.6	8.3	5.4	4.3	4.0
67.5°	3396.7	1721.4	36.8	24.1	12.6	7.9	6.5	6.8	2.9	1.8	1.4
68°	3300.5	1651.5	34.6	23.8	11.9	7.6	6.1	6.8	2.5	1.4	1.1
70°	2782.7	1313.9	27.7	23.1	10.5	5.8	5.0	6.8	2.2	1.1	0.7
72.5°	1779.8	762.5	20.5	18.4	7.9	4.3	3.2	6.1	2.2	0.7	0.4
75°	757.5	236.4	14.1	13.0	4.7	3.2	2.2	4.0	1.4	0.4	0.0
77.5°	159.6	53.3	8.3	7.9	3.2	2.2	1.4	1.1	0.4	0.0	0.0
80°	41.1	15.5	4.3	4.0	1.8	1.1	0.7	0.0	0.0	0.0	0.0
82.5°	13.0	6.1	2.5	1.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.5	3.6	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)