

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: P268994

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL3-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3567.7 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G1

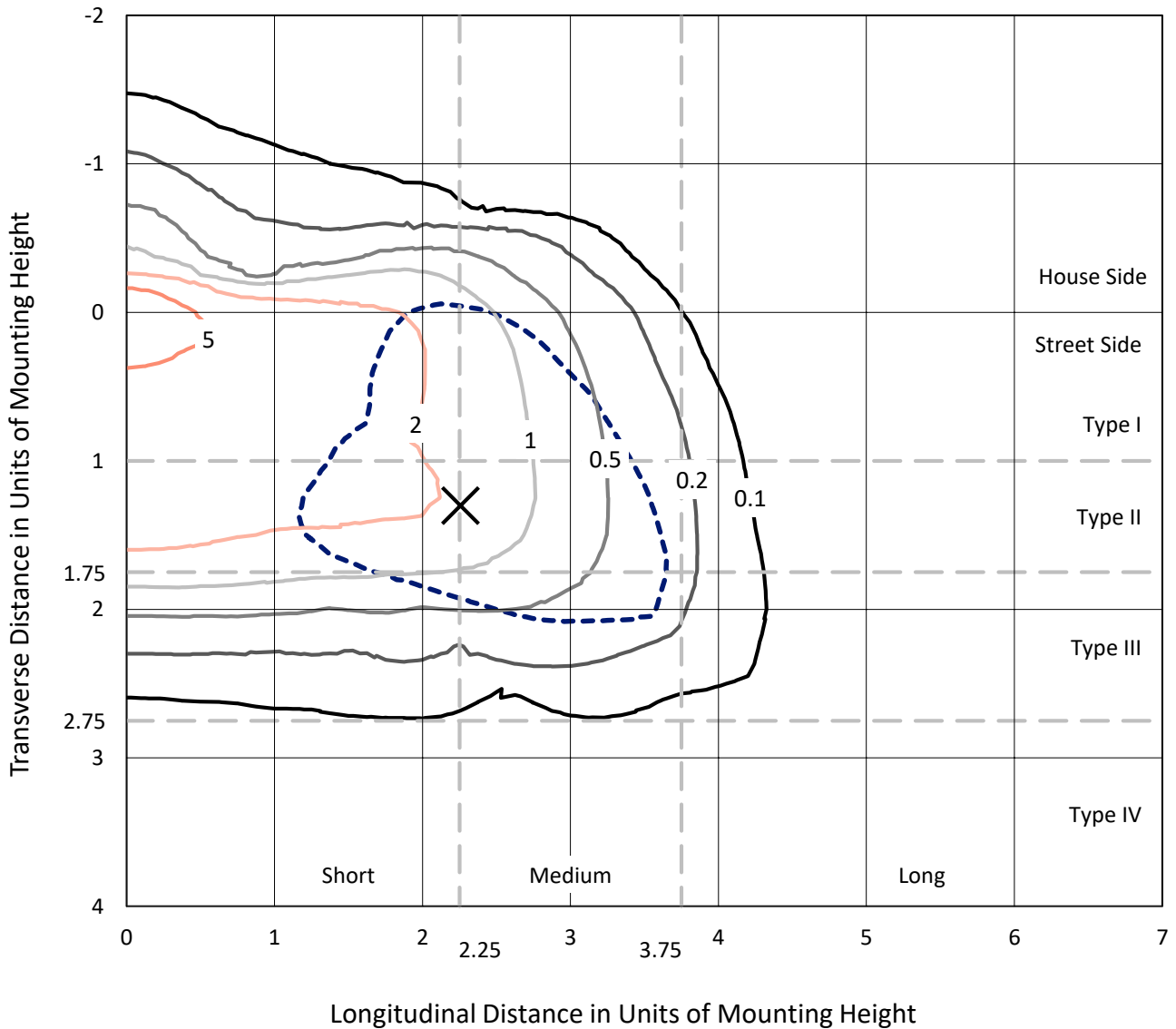
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

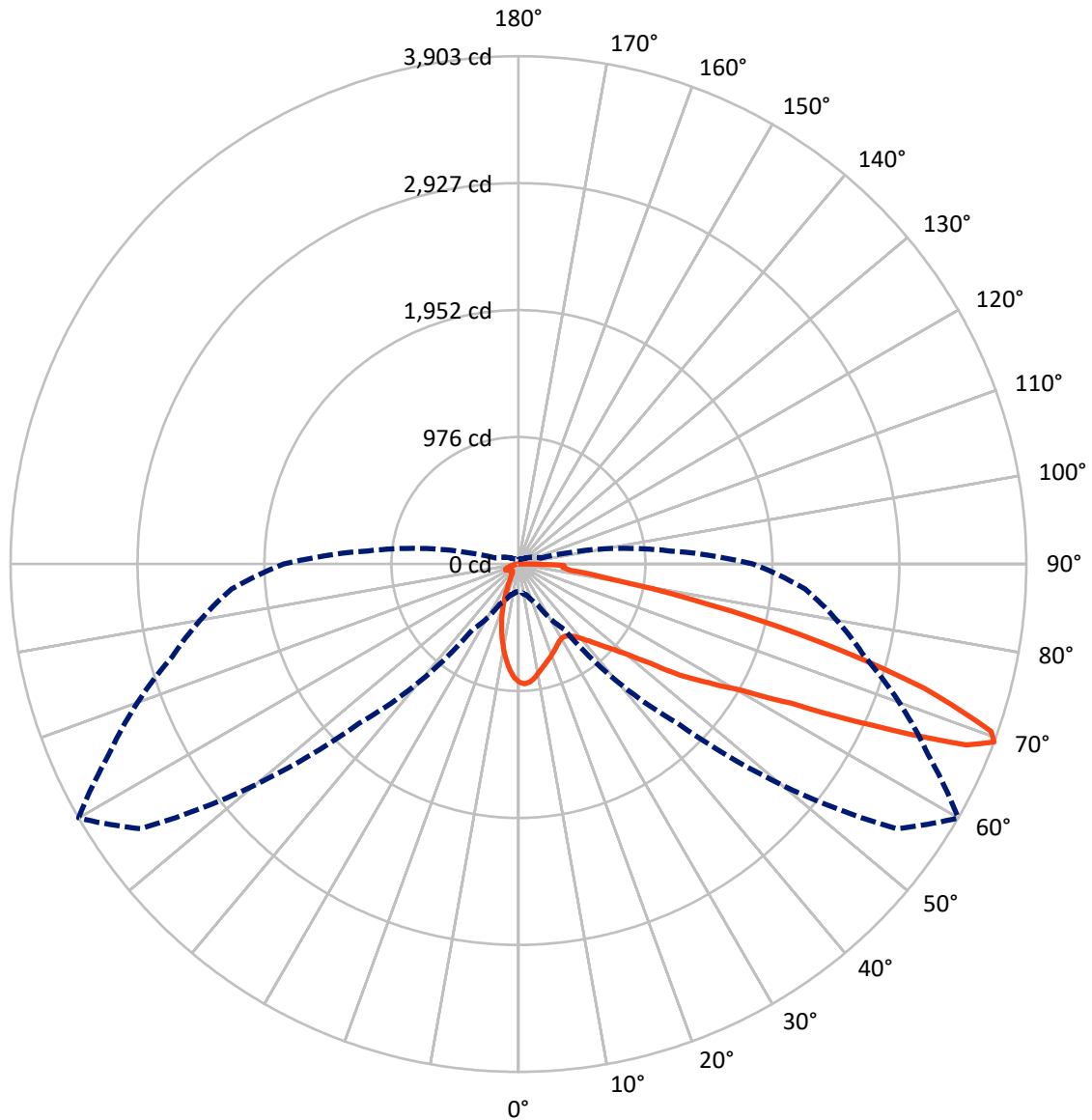
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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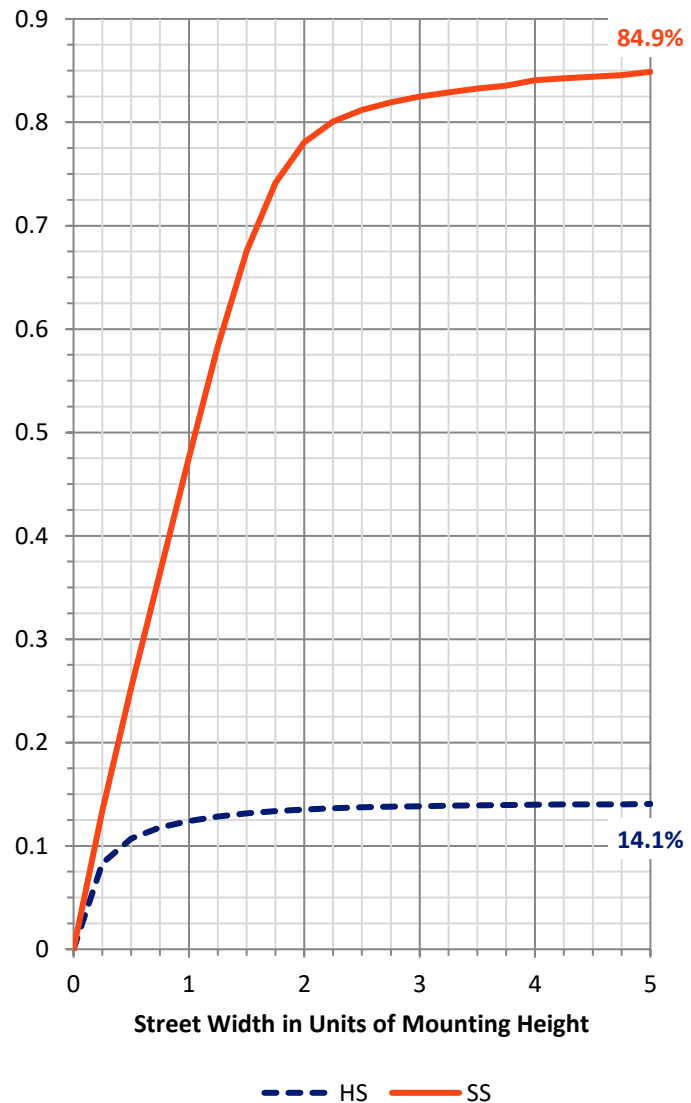
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.6	0.0	507.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	3060.1	0.0	3060.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	3567.7	0.0	3567.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	2.2
10°-20°	163.8	4.6
20°-30°	208.7	5.8
30°-40°	286.9	8.0
40°-50°	465.5	13.0
50°-60°	746.5	20.9
60°-70°	993.6	27.8
70°-80°	536.4	15.0
80°-90°	89.5	2.5
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°	3567.7	100.0
0°-180°	3567.7	100.0

Coefficient of Utilization



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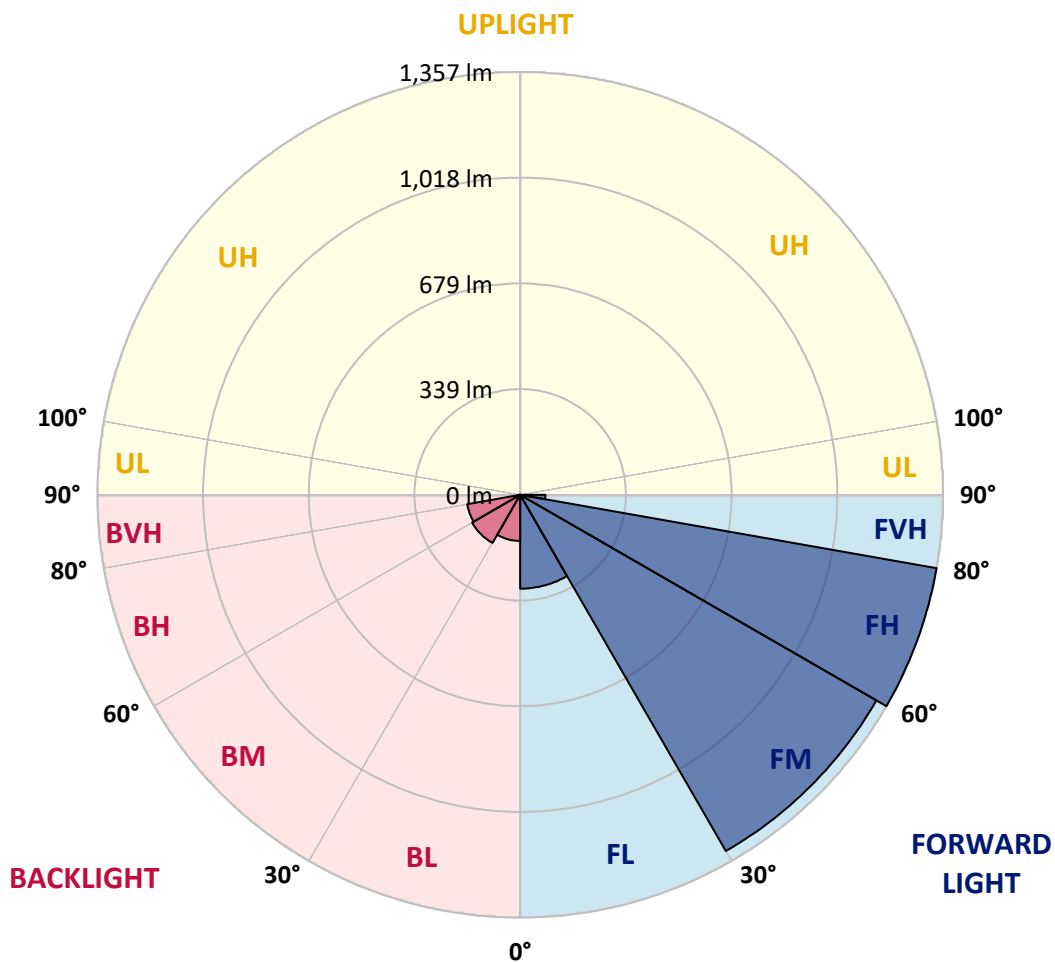
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.2	8.4			
FM (30°-60°)	1320.6	37.0			
FH (60°-80°)	1357.4	38.0			G1/1800
FVH (80°-90°)	80.9	2.3			G1/100
BL (0°-30°)	148.1	4.2	B1/500		
BM (30°-60°)	178.3	5.0	B0/220		
BH (60°-80°)	172.6	4.8	B1/500		G1/500
BVH (80°-90°)	8.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2
2.5°	927.7	929.7	928.8	928.4	929.9	927.5	922.5	921.0	918.5	912.9	903.2
5°	892.8	899.2	898.8	903.4	911.2	913.2	911.1	911.3	906.8	899.8	883.8
7.5°	832.8	835.3	836.7	846.9	861.0	872.4	882.0	885.1	883.0	877.0	856.4
10°	770.7	772.8	776.0	788.0	805.9	821.6	839.8	850.3	854.7	853.7	830.8
12.5°	717.4	719.5	723.9	737.2	758.7	777.9	804.5	817.5	828.2	834.6	809.8
15°	669.7	674.2	678.3	693.9	717.7	743.2	773.1	789.7	806.1	820.5	791.3
17.5°	632.4	637.0	639.5	653.4	678.9	710.0	745.2	764.6	785.4	808.8	773.1
20°	610.9	613.1	611.9	619.9	642.8	675.7	717.4	740.1	765.0	797.8	754.8
22.5°	604.9	605.1	601.2	600.4	615.2	642.9	687.8	715.2	746.0	790.5	739.1
25°	619.7	619.0	608.7	600.2	601.9	618.0	659.1	691.1	729.9	789.0	727.1
27.5°	652.1	653.6	638.3	622.4	606.9	606.3	637.4	671.2	716.8	796.1	722.0
30°	697.9	700.4	684.0	663.8	634.5	610.0	629.1	659.1	708.7	810.7	721.1
32.5°	747.7	750.5	738.1	716.9	678.3	633.6	634.9	660.3	708.4	831.2	727.0
35°	801.1	804.2	797.8	779.9	736.9	676.9	657.3	677.0	719.5	862.6	742.5
37.5°	860.4	865.3	867.0	849.9	804.2	733.8	694.0	708.7	744.9	906.2	771.5
40°	946.2	952.9	952.4	927.9	881.1	810.9	750.8	754.4	784.3	964.4	817.4
42.5°	1110.2	1111.7	1068.8	1015.4	965.9	891.8	817.5	814.6	838.7	1038.3	885.1
45°	1318.9	1313.2	1217.7	1114.8	1054.6	984.9	904.7	889.4	907.8	1128.1	969.9
47.5°	1492.2	1479.0	1358.3	1216.3	1148.4	1086.1	1006.8	980.3	990.4	1230.1	1079.6
50°	1552.4	1542.5	1442.5	1300.8	1237.1	1209.5	1132.7	1095.0	1097.8	1351.9	1208.0
52.5°	1539.3	1538.0	1471.2	1356.5	1320.1	1339.2	1310.8	1260.1	1233.2	1487.0	1346.5
55°	1508.9	1511.8	1487.7	1421.3	1415.1	1464.1	1543.6	1506.1	1422.5	1623.2	1489.7
57.5°	1402.9	1410.5	1463.5	1502.9	1567.9	1641.1	1731.2	1720.4	1626.4	1770.6	1660.0
60°	1130.2	1147.8	1290.1	1487.0	1725.4	1953.9	1994.1	1969.4	1836.7	1953.5	1885.0
62.5°	791.9	810.2	979.4	1287.5	1699.5	2307.1	2464.3	2357.3	2138.5	2222.9	2176.0
65°	424.0	432.8	562.0	893.3	1434.8	2380.0	3151.4	2988.7	2616.7	2555.0	2425.1
67.5°	233.9	238.7	288.1	450.9	919.0	2095.8	3589.2	3712.2	3214.1	2776.1	2379.7
69°	211.6	216.0	248.3	341.5	614.9	1732.9	3546.5	3903.0	3476.1	2754.3	2212.2
70°	206.8	210.9	240.0	314.9	497.8	1428.3	3403.1	3854.3	3538.6	2675.8	2066.0
72.5°	186.0	190.6	218.8	282.7	425.3	712.1	2695.8	3258.8	3212.6	2320.1	1567.2
75°	173.6	177.7	225.7	276.9	407.2	450.7	1777.1	2401.8	2361.6	1623.0	844.9
77.5°	74.3	73.9	104.7	234.4	413.3	436.3	955.0	1500.3	1368.8	693.8	242.6
80°	49.6	48.8	49.6	68.9	378.9	438.8	500.3	761.6	575.3	176.8	119.7
82.5°	42.7	42.0	43.6	42.0	133.2	500.9	425.3	405.0	273.5	100.5	59.3
85°	28.7	27.6	37.5	37.8	62.9	445.0	479.1	342.2	221.3	59.6	29.4
87.5°	13.7	13.5	21.9	26.7	36.9	180.7	537.5	350.6	223.1	30.5	14.0
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°	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2	909.2
2.5°	900.3	893.3	886.4	878.1	869.5	859.8	854.9	850.2	849.0	847.6	842.7
5°	875.5	865.4	848.3	829.3	809.4	789.8	775.0	765.7	758.7	755.0	748.6
7.5°	843.5	828.7	798.7	765.9	732.3	701.5	675.0	658.4	642.5	635.1	626.7
10°	813.0	791.0	744.2	695.8	647.7	601.2	557.7	526.9	499.5	484.0	473.2
12.5°	786.7	756.7	691.8	626.5	560.4	494.2	429.0	377.6	334.7	312.2	300.6
15°	761.3	725.0	642.0	559.0	474.1	384.4	298.4	240.2	204.8	190.6	185.8
17.5°	738.1	691.8	592.1	491.2	385.3	276.6	200.6	168.5	155.0	150.2	148.7
20°	713.2	658.2	540.2	420.1	292.5	193.3	156.7	142.6	137.0	135.6	134.9
22.5°	689.0	625.1	490.5	344.2	210.1	149.3	134.6	128.7	127.9	129.0	129.0
25°	668.5	595.4	436.8	264.7	154.2	125.7	120.5	119.0	122.3	126.8	127.6
27.5°	653.2	571.1	379.9	195.4	122.9	109.2	109.1	111.3	119.5	128.1	129.7
30°	642.6	548.1	318.8	140.9	103.0	96.2	99.0	103.8	115.6	127.9	131.2
32.5°	637.3	531.0	255.3	109.1	88.3	84.4	89.1	95.0	106.7	118.0	122.3
35°	641.5	518.4	195.2	91.0	78.0	75.0	79.8	85.5	92.3	97.1	100.5
37.5°	657.0	513.4	147.3	81.6	70.8	68.1	71.9	75.2	78.0	79.3	80.8
40°	690.3	518.7	118.0	76.6	66.8	63.4	64.9	66.1	67.9	69.3	70.0
42.5°	739.7	534.9	105.8	74.7	64.8	59.7	59.5	59.9	62.3	64.8	65.2
45°	808.7	563.1	104.9	75.9	63.8	56.9	55.3	56.1	59.5	63.4	64.0
47.5°	896.7	606.1	111.8	79.6	64.6	55.3	52.7	53.5	57.9	63.2	64.0
50°	1003.3	666.3	123.3	85.0	68.5	55.7	51.9	52.5	56.9	62.7	63.6
52.5°	1129.3	751.6	136.0	90.1	72.4	57.9	52.6	51.4	55.4	60.6	61.8
55°	1269.5	861.0	148.8	94.9	74.5	60.6	54.0	49.9	52.9	57.2	58.1
57.5°	1441.5	1014.0	171.2	99.3	75.8	62.5	55.3	48.6	49.6	52.7	53.4
60°	1674.4	1230.5	210.8	106.7	79.0	63.2	55.2	47.4	46.4	48.1	48.4
62.5°	1953.4	1465.6	243.7	116.1	84.1	63.8	54.1	46.5	43.6	43.6	43.9
65°	2118.9	1528.5	225.5	123.7	88.5	63.2	52.9	45.6	41.5	39.6	39.9
67.5°	1978.4	1344.3	193.1	125.4	88.3	60.8	51.1	44.1	39.4	36.6	36.4
69°	1802.4	1159.8	178.8	121.1	84.1	57.8	48.6	42.4	37.9	34.9	34.7
70°	1660.6	1047.3	169.2	116.7	79.6	55.4	46.7	40.9	36.7	33.7	33.4
72.5°	1207.4	686.2	144.5	100.3	65.7	46.5	40.3	35.8	32.8	31.0	30.7
75°	603.4	327.3	117.4	81.3	50.3	37.2	33.1	30.1	28.4	28.0	27.8
77.5°	198.2	149.9	83.9	60.6	37.4	29.1	26.7	24.4	24.2	25.2	24.9
80°	109.0	87.2	53.3	40.2	25.5	21.4	21.0	19.9	20.3	22.1	21.6
82.5°	55.4	45.4	32.9	24.2	17.2	15.4	16.7	16.0	16.7	18.2	18.1
85°	27.4	24.9	20.8	14.6	11.4	9.8	11.9	12.3	12.8	14.0	14.0
87.5°	15.9	14.6	11.0	6.8	5.7	5.2	6.8	6.6	7.9	8.7	8.4
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)