

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: P269008

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
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-SL4-7027-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4395.1 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

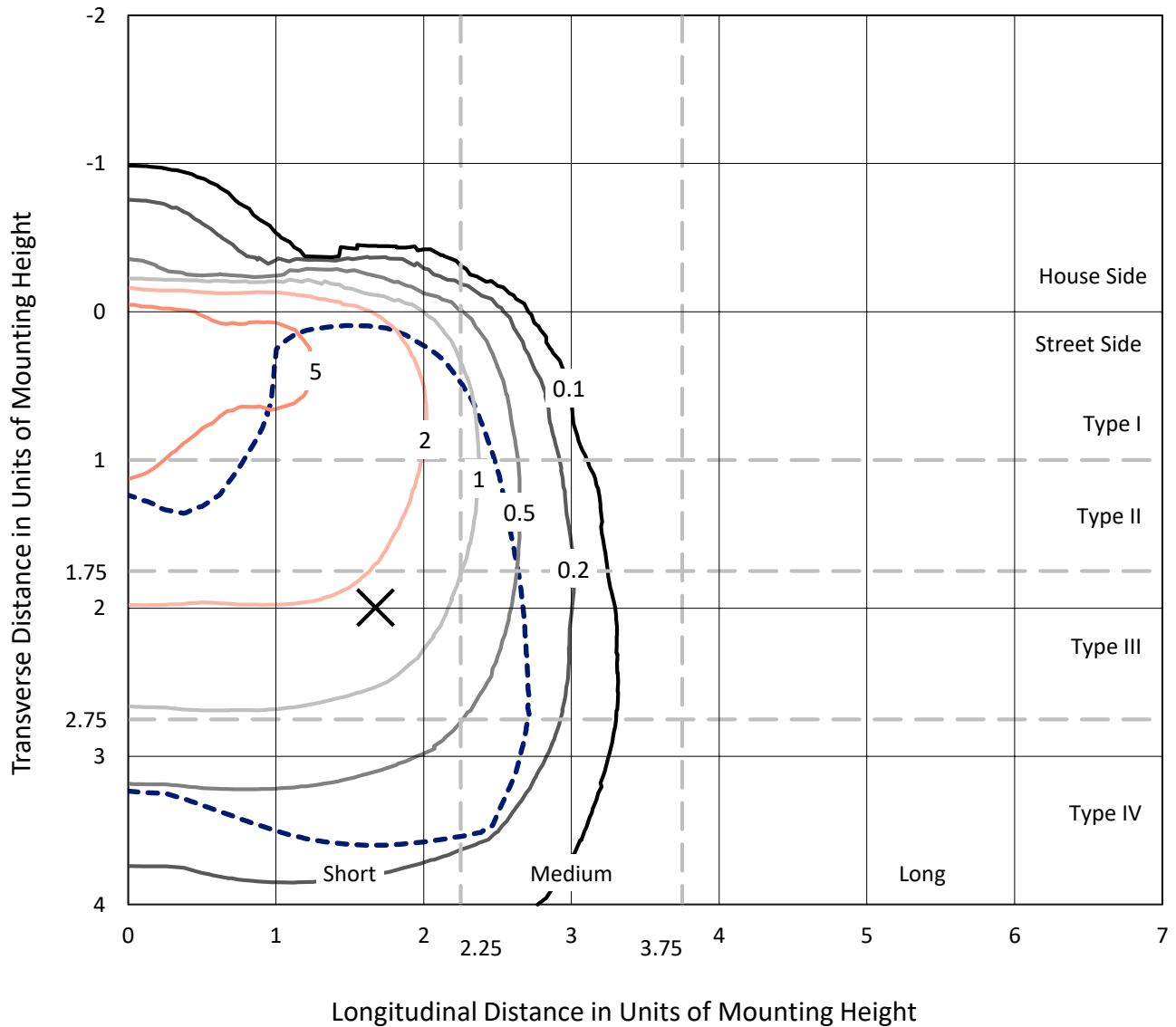
Input Watts (W): 59
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

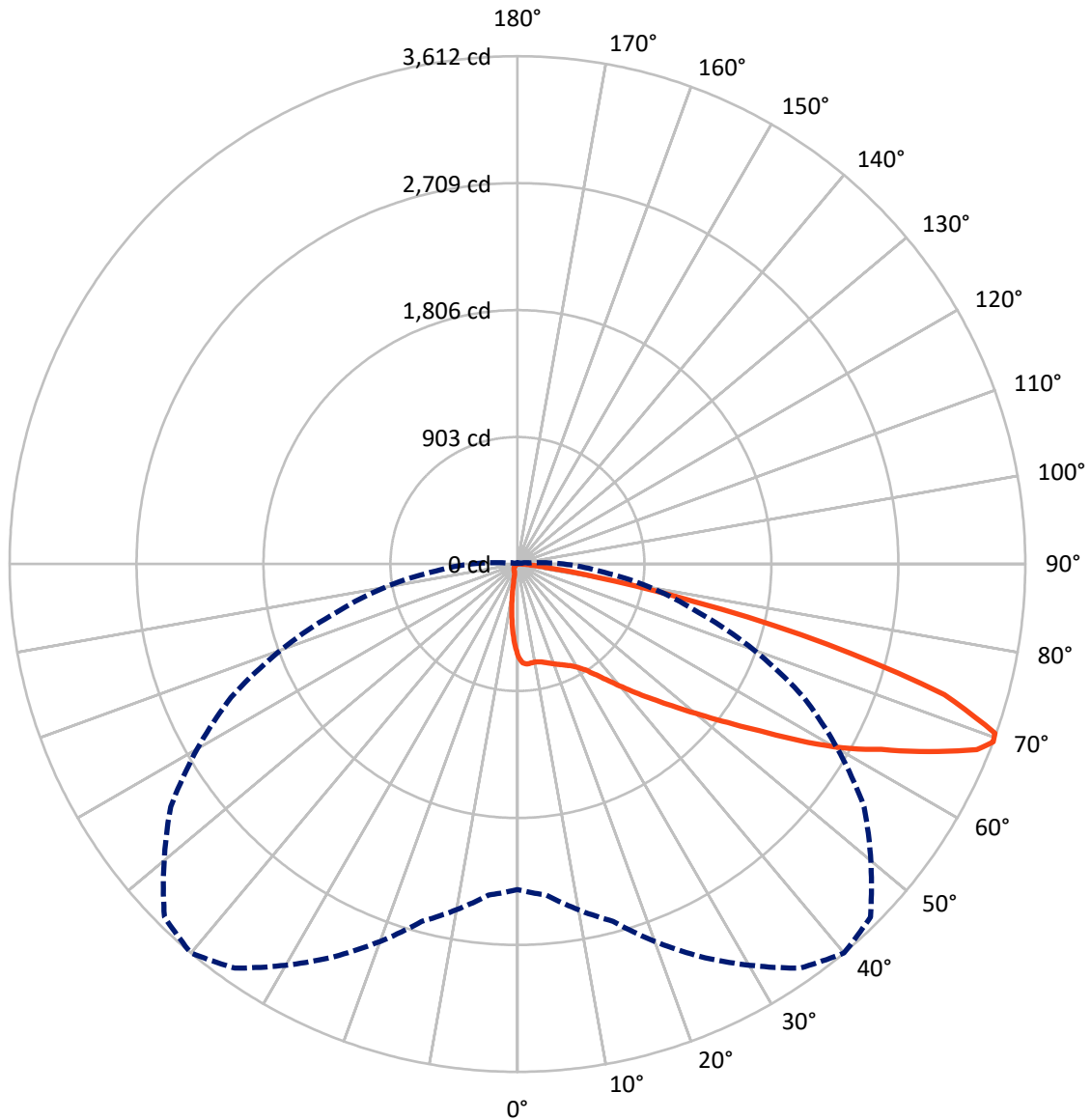
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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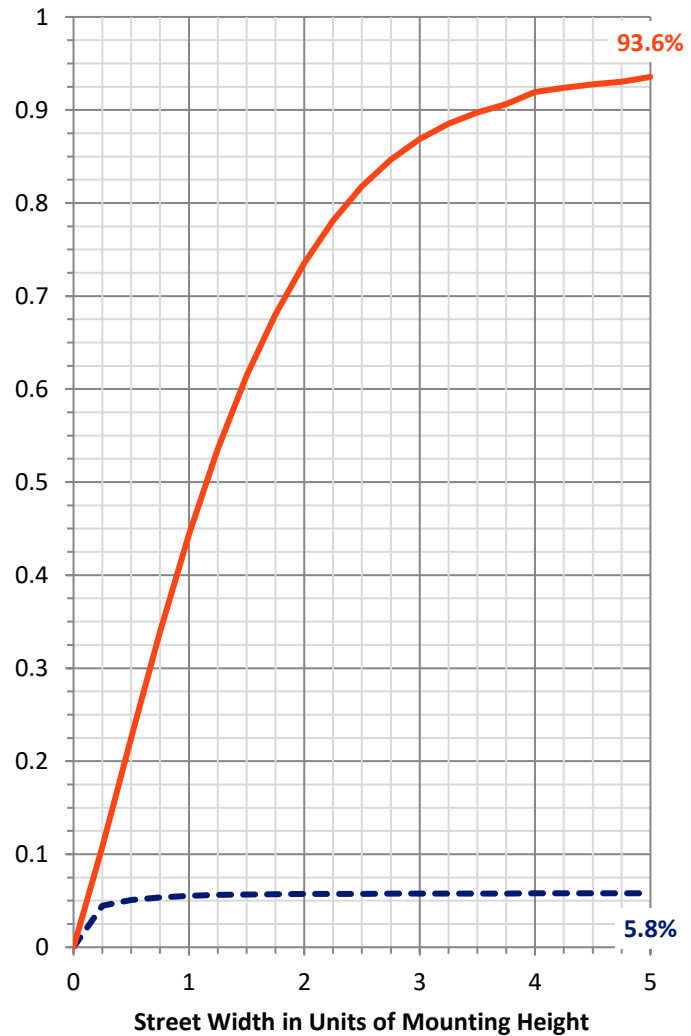
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	257.2	0.0	257.2
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	4137.9	0.0	4137.9
	% Fixture	94.1	0.0	94.1
Total	Lumens	4395.1	0.0	4395.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	1.2
10°-20°	130.9	3.0
20°-30°	220.5	5.0
30°-40°	361.0	8.2
40°-50°	625.1	14.2
50°-60°	984.6	22.4
60°-70°	1285.8	29.3
70°-80°	662.2	15.1
80°-90°	71.7	1.6
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°	4395.1	100.0
0°-180°	4395.1	100.0



--- HS — SS

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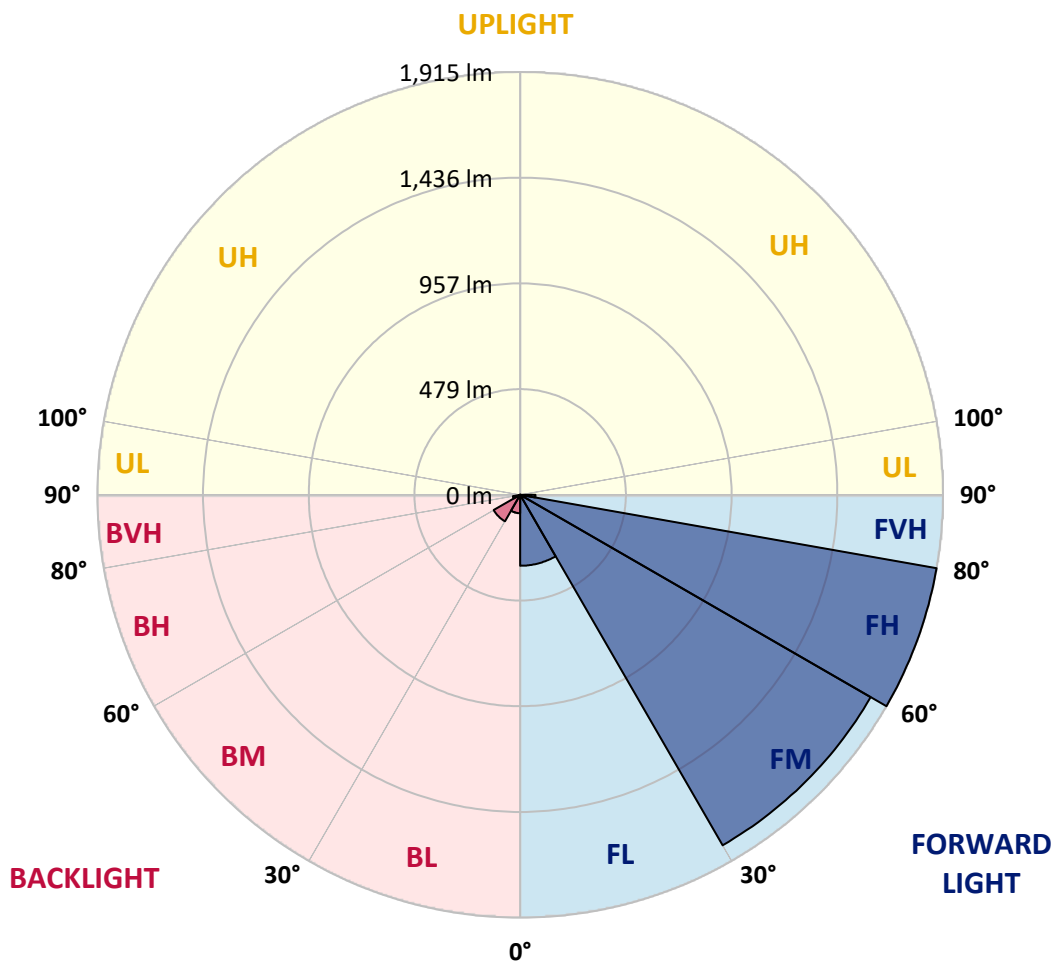
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	321.4	7.3			
FM	(30°-60°)	1832.5	41.7			
FH	(60°-80°)	1914.7	43.6			G2/5000
FVH	(80°-90°)	69.4	1.6			G1/100
BL	(0°-30°)	83.3	1.9	B0/110		
BM	(30°-60°)	138.2	3.1	B0/220		
BH	(60°-80°)	33.4	0.8	B0/110		G0/110
BVH	(80°-90°)	2.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7
2.5°	721.0	717.0	714.7	711.5	707.7	704.2	703.0	693.3	684.1	671.6	657.2
5°	734.4	733.0	728.9	724.7	719.9	714.7	711.8	700.3	687.3	669.0	643.8
7.5°	735.6	734.0	728.9	723.0	716.6	710.3	705.3	693.9	681.8	663.2	632.5
10°	733.6	731.7	727.7	721.5	713.4	707.3	702.5	691.4	681.3	664.4	630.5
12.5°	731.2	729.3	727.5	724.5	717.3	713.2	708.9	698.5	689.4	675.3	638.1
15°	733.6	732.5	734.6	733.2	729.3	725.7	721.5	712.0	703.7	692.0	651.9
17.5°	743.4	743.4	750.1	750.9	747.2	741.9	735.9	726.5	719.5	709.5	668.3
20°	766.9	766.1	774.3	776.0	767.1	759.0	750.1	738.5	733.0	726.8	684.7
22.5°	806.8	803.2	808.1	806.6	789.0	776.5	765.4	751.3	748.5	745.7	702.7
25°	858.9	856.8	860.1	844.8	813.9	796.8	783.9	767.8	767.8	770.7	723.0
27.5°	934.4	926.6	915.2	888.0	841.6	820.0	805.8	788.7	793.3	804.0	750.1
30°	1011.9	1003.2	976.8	935.0	875.4	852.6	836.1	818.4	828.7	848.4	786.1
32.5°	1088.2	1078.7	1041.2	988.3	923.7	901.0	885.0	865.3	882.9	915.9	838.9
35°	1162.3	1153.8	1110.6	1048.3	988.1	969.4	954.5	937.7	960.1	1006.1	913.5
37.5°	1245.5	1236.1	1183.5	1116.1	1066.4	1052.8	1042.0	1025.0	1064.2	1131.8	1017.4
40°	1347.8	1331.8	1261.0	1193.8	1156.8	1150.3	1143.0	1140.7	1201.7	1294.9	1155.8
42.5°	1465.0	1438.8	1342.1	1275.7	1256.3	1261.0	1259.2	1269.7	1373.5	1498.1	1324.3
45°	1582.3	1548.5	1432.3	1363.0	1365.7	1382.1	1392.4	1434.1	1588.7	1730.9	1505.6
47.5°	1681.6	1648.4	1518.9	1457.4	1488.9	1521.3	1548.9	1628.3	1810.1	1960.0	1646.7
50°	1766.6	1735.3	1610.8	1561.3	1632.0	1684.2	1729.2	1846.7	2048.1	2134.6	1745.4
52.5°	1836.2	1815.4	1706.1	1680.3	1795.4	1872.1	1938.1	2078.8	2259.0	2276.2	1822.4
55°	1904.0	1889.0	1808.3	1821.9	1987.5	2091.9	2175.2	2325.0	2440.5	2394.5	1896.1
57.5°	1982.0	1968.4	1925.0	2001.3	2240.0	2371.3	2462.3	2543.1	2600.5	2515.4	1965.8
60°	2061.5	2053.6	2054.8	2200.7	2529.7	2655.8	2706.1	2727.1	2757.3	2629.2	1969.7
62.5°	2137.3	2152.2	2203.1	2422.5	2807.4	2904.2	2929.6	2950.3	2914.6	2647.2	1819.7
65°	2265.9	2290.1	2411.3	2719.4	3112.6	3216.2	3242.4	3171.6	2939.4	2413.8	1480.1
67.5°	2328.5	2373.1	2589.2	2996.2	3408.8	3524.0	3514.2	3185.8	2637.9	1840.6	949.9
69°	2315.6	2362.9	2630.2	3080.9	3507.2	3611.5	3550.1	3009.9	2247.2	1333.4	583.1
70°	2263.6	2311.6	2609.0	3077.9	3519.6	3602.5	3483.6	2792.4	1900.1	975.0	364.7
72.5°	1890.5	1931.7	2316.3	2782.1	3242.4	3175.1	2914.3	1934.6	925.9	265.4	82.1
75°	1163.7	1186.8	1662.0	2095.7	2449.0	2276.2	1941.6	962.4	276.0	75.1	45.5
77.5°	614.8	625.3	910.0	1235.3	1552.5	1284.5	995.1	375.4	127.1	47.2	33.0
80°	363.4	371.2	489.9	564.9	671.8	561.1	397.9	230.4	91.1	29.6	29.4
82.5°	208.0	213.0	355.3	314.0	264.7	226.1	198.0	218.5	54.6	19.9	30.4
85°	76.4	77.4	199.9	238.9	157.6	93.7	98.4	181.1	14.6	12.5	23.9
87.5°	35.7	34.9	102.9	146.2	92.0	59.4	76.6	39.7	5.7	8.2	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°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7
2.5°	648.8	639.1	621.5	603.5	585.2	571.1	557.2	546.3	542.5	535.7	536.3
5°	629.0	611.1	574.5	537.4	498.6	466.7	436.7	412.3	400.6	388.4	388.4
7.5°	611.7	585.8	528.5	468.0	405.5	352.9	305.6	270.0	250.4	234.6	234.4
10°	605.1	570.1	489.9	403.3	316.4	244.6	188.4	152.3	133.7	121.6	121.1
12.5°	608.1	564.6	460.4	343.7	234.4	157.3	109.1	85.8	78.0	74.3	74.3
15°	616.3	563.0	430.8	285.4	165.6	98.4	72.5	66.1	65.7	65.7	65.7
17.5°	626.6	563.4	400.6	228.7	112.7	70.3	62.5	61.8	62.3	62.3	62.3
20°	637.0	563.7	367.9	176.1	79.5	61.3	58.8	58.6	59.1	59.1	59.4
22.5°	649.8	565.0	335.1	131.6	65.7	57.9	56.0	56.0	56.2	56.2	56.0
25°	664.4	567.6	301.1	97.6	59.8	55.4	53.9	53.5	53.9	53.5	53.4
27.5°	682.8	571.3	263.2	76.4	57.3	53.1	51.8	51.8	51.6	51.3	51.1
30°	705.8	575.5	220.5	64.9	54.6	51.1	49.6	49.4	49.1	48.7	48.7
32.5°	740.9	584.6	178.5	58.8	51.8	48.1	47.2	47.2	46.5	46.1	45.8
35°	794.8	602.8	140.8	55.2	48.7	44.9	43.7	43.7	43.2	42.8	42.6
37.5°	869.3	630.3	109.4	51.8	45.5	41.6	40.2	40.1	39.4	38.9	38.6
40°	968.6	664.2	86.1	48.7	42.4	38.2	37.1	36.7	35.7	34.9	34.9
42.5°	1093.0	703.0	69.9	45.3	38.6	35.0	34.2	33.4	31.7	30.9	30.6
45°	1223.3	737.8	59.1	41.3	35.0	31.9	31.4	30.2	27.8	26.9	26.9
47.5°	1317.3	745.9	52.0	37.6	31.7	28.6	28.2	26.0	23.9	23.3	23.0
50°	1375.8	730.0	46.4	34.0	28.6	25.4	24.7	21.6	20.4	19.9	19.7
52.5°	1415.3	701.3	41.6	30.9	25.6	22.5	20.8	18.5	17.5	17.0	17.0
55°	1447.0	661.2	36.9	27.9	23.3	20.1	17.5	16.0	14.9	14.5	14.5
57.5°	1455.9	606.4	32.2	25.6	20.9	17.7	14.9	13.8	12.5	12.2	12.2
60°	1391.2	507.8	28.6	22.7	18.9	15.5	13.0	11.8	10.5	10.2	9.9
62.5°	1220.9	393.0	25.2	20.1	16.4	13.4	11.3	9.7	8.7	8.7	8.7
65°	931.4	263.5	22.0	17.5	14.5	11.3	9.7	7.8	7.4	7.4	7.5
67.5°	557.5	143.4	18.9	14.9	12.2	9.4	8.2	6.7	6.6	6.7	6.7
69°	326.8	84.3	17.0	13.4	10.7	8.4	7.0	6.0	6.6	6.7	6.7
70°	201.7	56.8	15.7	12.0	9.7	7.5	6.6	5.7	6.3	6.6	6.6
72.5°	56.2	29.4	12.5	9.4	7.8	6.3	5.2	5.2	6.0	6.3	6.3
75°	36.7	21.6	9.7	7.0	6.0	5.0	4.4	5.0	5.7	6.0	6.0
77.5°	30.4	17.7	7.8	5.7	5.0	4.8	4.2	4.4	5.2	5.5	5.5
80°	27.8	12.5	6.3	5.2	4.4	4.2	4.0	3.7	4.8	5.0	5.0
82.5°	26.4	9.9	5.5	4.8	4.2	3.7	3.5	3.7	4.2	4.4	4.8
85°	16.4	6.6	5.0	4.4	3.7	3.5	3.5	3.5	4.0	4.2	4.2
87.5°	6.0	5.2	4.4	3.7	3.1	3.1	3.1	3.1	3.5	4.0	4.0
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)