

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: P191999

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191999  
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-SL4-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA 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: 4087 lumens  
Efficiency: N/A  
Efficacy: 92.9 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 - G1

Input Watts (W): 44  
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

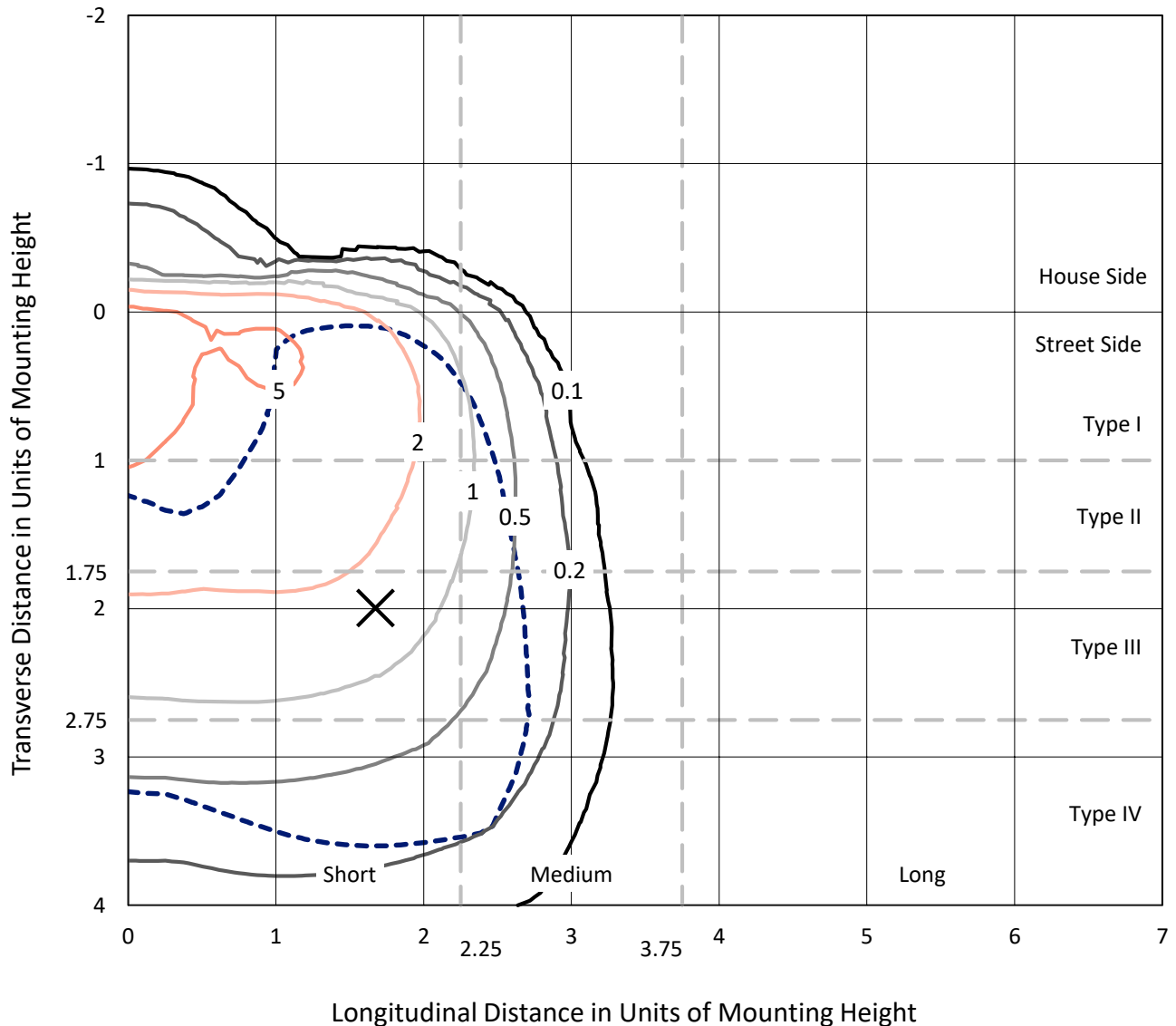


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

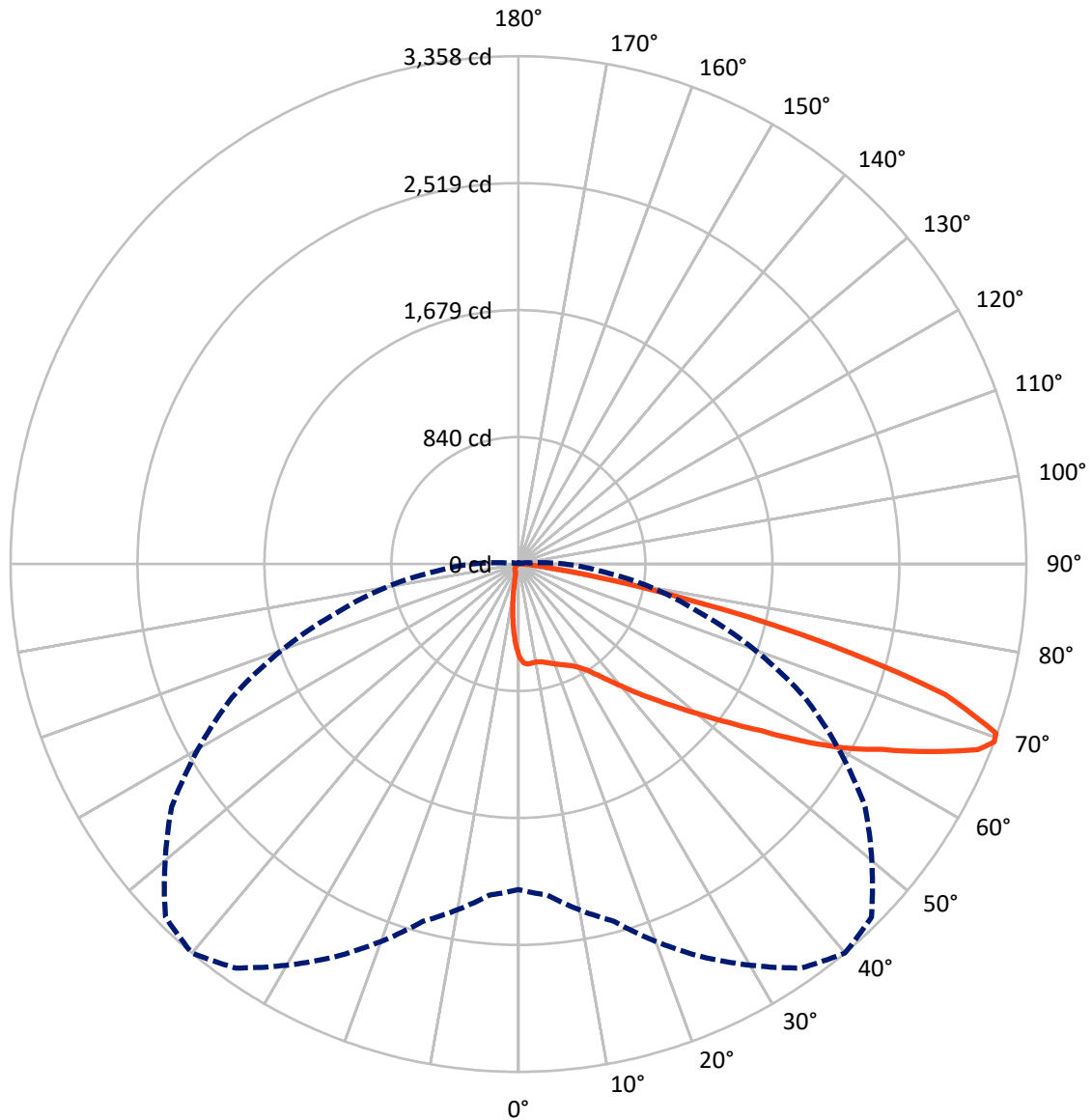


Based on 10 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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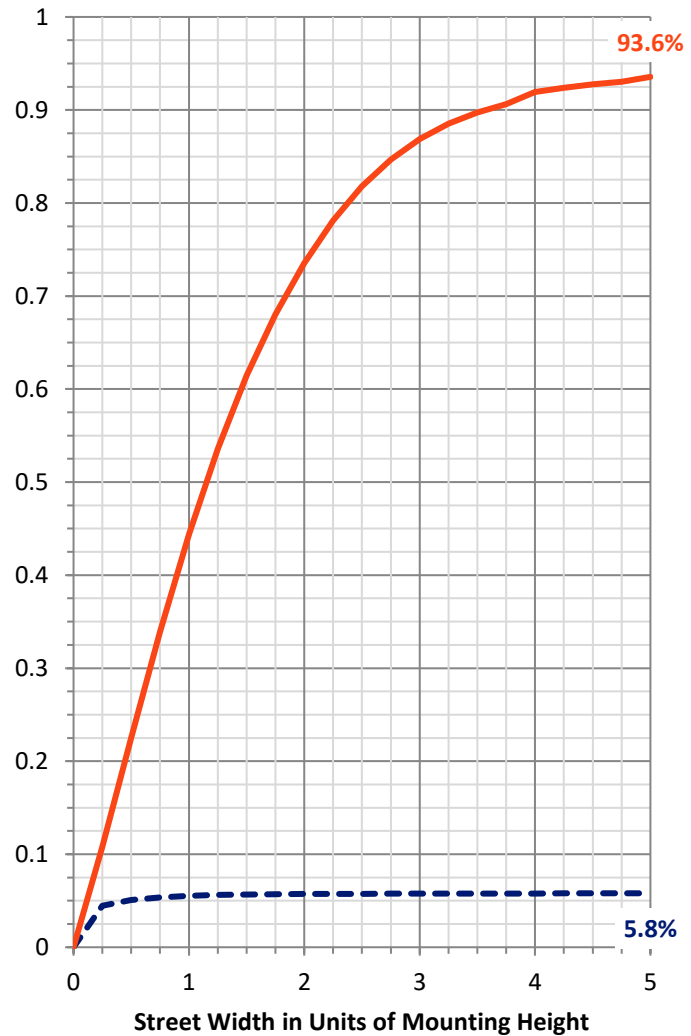
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	239.1	0.0	239.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	3847.9	0.0	3847.9
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	4087.0	0.0	4087.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	1.2
10°-20°	121.8	3.0
20°-30°	205.1	5.0
30°-40°	335.7	8.2
40°-50°	581.3	14.2
50°-60°	915.6	22.4
60°-70°	1195.7	29.3
70°-80°	615.8	15.1
80°-90°	66.6	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°	4087.0	100.0
0°-180°	4087.0	100.0



--- HS    — SS

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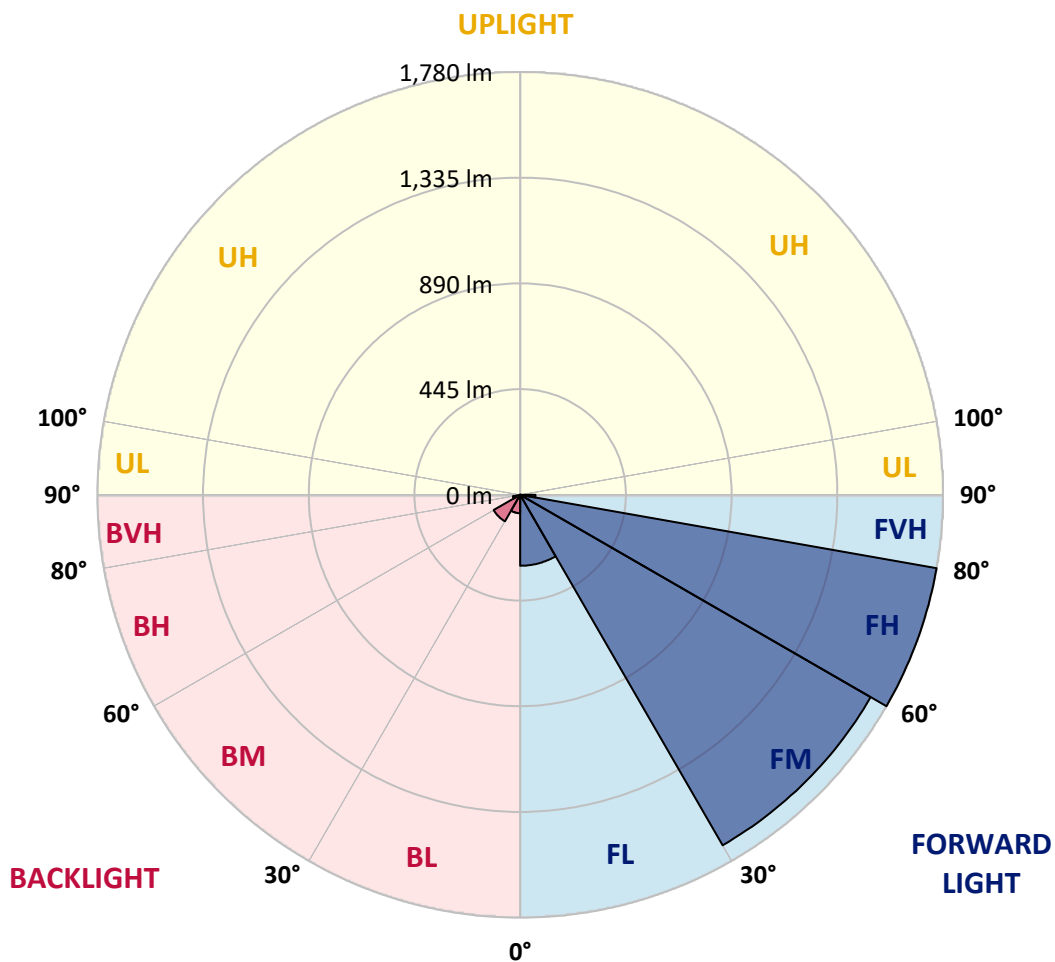
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	298.9	7.3			
FM	(30°-60°)	1704.0	41.7			
FH	(60°-80°)	1780.5	43.6			G1/1800
FVH	(80°-90°)	64.5	1.6			G1/100
BL	(0°-30°)	77.5	1.9	B0/110		
BM	(30°-60°)	128.5	3.1	B0/220		
BH	(60°-80°)	31.0	0.8	B0/110		G0/110
BVH	(80°-90°)	2.1	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6
2.5°	670.5	666.8	664.6	661.7	658.1	654.9	653.7	644.7	636.2	624.5	611.1
5°	682.9	681.7	677.8	673.9	669.5	664.6	661.9	651.2	639.1	622.1	598.7
7.5°	684.1	682.6	677.8	672.4	666.3	660.5	655.9	645.2	634.0	616.7	588.2
10°	682.1	680.4	676.8	671.0	663.4	657.8	653.2	643.0	633.5	617.9	586.3
12.5°	680.0	678.2	676.5	673.6	667.1	663.2	659.3	649.5	641.0	627.9	593.3
15°	682.1	681.2	683.1	681.9	678.2	674.8	671.0	662.2	654.4	643.5	606.2
17.5°	691.4	691.4	697.5	698.2	694.8	689.9	684.3	675.6	669.0	659.8	621.6
20°	713.0	712.3	720.1	721.6	713.3	705.7	697.5	686.8	681.7	675.8	636.6
22.5°	750.3	746.9	751.5	750.0	733.7	722.0	711.8	698.7	696.0	693.3	653.4
25°	798.7	796.7	799.9	785.5	756.8	741.0	728.9	714.0	714.0	716.7	672.4
27.5°	869.0	861.7	851.0	825.7	782.6	762.4	749.3	733.5	737.6	747.6	697.5
30°	941.0	933.0	908.4	869.5	814.0	792.8	777.5	761.0	770.7	788.9	731.0
32.5°	1012.0	1003.0	968.2	919.1	859.0	837.8	823.0	804.8	821.1	851.7	780.2
35°	1080.9	1072.8	1032.7	974.8	918.8	901.3	887.7	871.9	892.8	935.6	849.5
37.5°	1158.2	1149.5	1100.6	1037.8	991.6	978.9	969.0	953.1	989.6	1052.4	946.1
40°	1253.3	1238.5	1172.6	1110.1	1075.8	1069.7	1062.9	1060.7	1117.4	1204.2	1074.8
42.5°	1362.3	1338.0	1248.0	1186.2	1168.2	1172.6	1170.9	1180.6	1277.2	1393.0	1231.5
45°	1471.3	1439.9	1331.9	1267.5	1269.9	1285.2	1294.7	1333.6	1477.4	1609.5	1400.0
47.5°	1563.8	1532.9	1412.5	1355.3	1384.5	1414.6	1440.4	1514.1	1683.2	1822.6	1531.2
50°	1642.8	1613.6	1497.8	1451.9	1517.5	1566.2	1608.0	1717.3	1904.6	1984.9	1623.1
52.5°	1707.5	1688.1	1586.4	1562.6	1669.6	1740.9	1802.2	1933.1	2100.7	2116.7	1694.6
55°	1770.6	1756.7	1681.5	1694.2	1848.2	1945.2	2022.8	2162.0	2269.5	2226.7	1763.3
57.5°	1843.0	1830.4	1790.0	1861.0	2082.9	2205.0	2289.7	2364.9	2418.1	2339.1	1828.0
60°	1917.0	1909.7	1910.7	2046.4	2352.5	2469.7	2516.4	2535.9	2564.1	2444.9	1831.6
62.5°	1987.6	2001.4	2048.6	2252.7	2610.6	2700.6	2724.2	2743.4	2710.3	2461.7	1692.2
65°	2107.0	2129.6	2242.3	2528.8	2894.5	2990.8	3015.1	2949.2	2733.4	2244.7	1376.4
67.5°	2165.4	2206.7	2407.7	2786.2	3169.9	3276.9	3267.9	2962.6	2452.9	1711.7	883.3
69°	2153.2	2197.3	2445.9	2865.0	3261.3	3358.4	3301.2	2798.9	2089.7	1240.0	542.3
70°	2105.1	2149.6	2426.2	2862.1	3273.0	3349.9	3239.4	2596.7	1766.9	906.7	339.1
72.5°	1757.9	1796.3	2154.0	2587.0	3015.1	2952.6	2710.1	1799.0	860.9	246.9	76.4
75°	1082.1	1103.5	1545.5	1948.9	2277.3	2116.7	1805.6	895.0	256.7	69.8	42.3
77.5°	571.7	581.4	846.1	1148.7	1443.6	1194.5	925.4	349.1	118.2	43.8	30.7
80°	337.9	345.2	455.7	525.2	624.7	521.8	370.0	214.3	84.7	27.5	27.2
82.5°	193.4	198.0	330.4	291.9	246.2	210.2	184.2	203.1	50.8	18.5	28.2
85°	71.0	72.0	185.9	222.1	146.5	87.1	91.5	168.3	13.6	11.7	22.1
87.5°	33.1	32.4	95.6	136.0	85.6	55.2	71.3	37.0	5.4	7.5	6.1
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°	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6	610.6
2.5°	603.3	594.3	578.0	561.2	544.2	531.1	518.2	508.0	504.6	498.2	498.7
5°	584.8	568.3	534.2	499.7	463.7	434.0	406.0	383.4	372.5	361.3	361.3
7.5°	568.8	544.7	491.4	435.2	377.1	328.2	284.1	251.1	232.8	218.2	218.0
10°	562.7	530.1	455.7	375.1	294.1	227.5	175.2	141.6	124.3	113.1	112.6
12.5°	565.4	525.0	428.2	319.7	218.0	146.2	101.4	79.8	72.5	69.1	69.1
15°	573.2	523.5	400.7	265.4	154.0	91.5	67.4	61.5	61.1	61.1	61.1
17.5°	582.6	524.0	372.5	212.6	104.9	65.4	58.1	57.4	57.9	57.9	57.9
20°	592.4	524.3	342.0	163.7	74.0	56.9	54.7	54.5	55.0	55.0	55.2
22.5°	604.3	525.5	311.6	122.4	61.1	53.8	52.1	52.1	52.3	52.3	52.1
25°	617.9	527.9	280.0	90.7	55.7	51.6	50.1	49.9	50.1	49.9	49.6
27.5°	634.9	531.3	244.7	71.0	53.3	49.4	48.2	48.2	47.9	47.7	47.4
30°	656.4	535.2	205.1	60.3	50.8	47.4	46.2	46.0	45.7	45.2	45.2
32.5°	689.0	543.7	165.9	54.7	48.2	44.8	43.8	43.8	43.3	42.8	42.6
35°	739.1	560.5	130.9	51.3	45.2	41.8	40.6	40.6	40.1	39.9	39.7
37.5°	808.4	586.0	101.7	48.2	42.3	38.7	37.5	37.2	36.7	36.2	36.0
40°	900.6	617.7	80.0	45.2	39.4	35.5	34.5	34.1	33.1	32.4	32.4
42.5°	1016.4	653.7	65.0	42.1	36.0	32.6	31.9	31.1	29.4	28.7	28.5
45°	1137.6	686.0	55.0	38.4	32.6	29.7	29.2	28.0	25.8	25.1	25.1
47.5°	1224.9	693.6	48.4	35.0	29.4	26.5	26.3	24.1	22.1	21.7	21.4
50°	1279.4	678.7	43.1	31.6	26.5	23.6	22.9	20.2	19.0	18.5	18.2
52.5°	1316.1	652.2	38.7	28.7	23.8	20.9	19.2	17.3	16.3	15.8	15.8
55°	1345.6	614.8	34.3	26.0	21.7	18.7	16.3	14.8	13.9	13.4	13.4
57.5°	1353.8	563.9	29.9	23.8	19.5	16.5	13.9	12.9	11.7	11.4	11.4
60°	1293.7	472.2	26.5	21.2	17.5	14.4	12.2	10.9	9.7	9.5	9.2
62.5°	1135.4	365.4	23.4	18.7	15.3	12.4	10.5	9.0	8.0	8.0	8.0
65°	866.1	245.0	20.4	16.3	13.4	10.5	9.0	7.3	6.8	6.8	7.1
67.5°	518.4	133.3	17.5	13.9	11.4	8.8	7.5	6.3	6.1	6.3	6.3
69°	303.8	78.3	15.8	12.4	10.0	7.8	6.6	5.6	6.1	6.3	6.3
70°	187.6	52.8	14.6	11.2	9.0	7.1	6.1	5.4	5.8	6.1	6.1
72.5°	52.3	27.2	11.7	8.8	7.3	5.8	4.9	4.9	5.6	5.8	5.8
75°	34.1	20.2	9.0	6.6	5.6	4.6	4.1	4.6	5.4	5.6	5.6
77.5°	28.2	16.5	7.3	5.4	4.6	4.4	3.9	4.1	4.9	5.1	5.1
80°	25.8	11.7	5.8	4.9	4.1	3.9	3.6	3.4	4.4	4.6	4.6
82.5°	24.6	9.2	5.1	4.4	3.9	3.4	3.2	3.4	3.9	4.1	4.4
85°	15.3	6.1	4.6	4.1	3.4	3.2	3.2	3.2	3.6	3.9	3.9
87.5°	5.6	4.9	4.1	3.4	2.9	2.9	2.9	2.9	3.2	3.6	3.6
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)