

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: P191909

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7050-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191909  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7050-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3508 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - 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

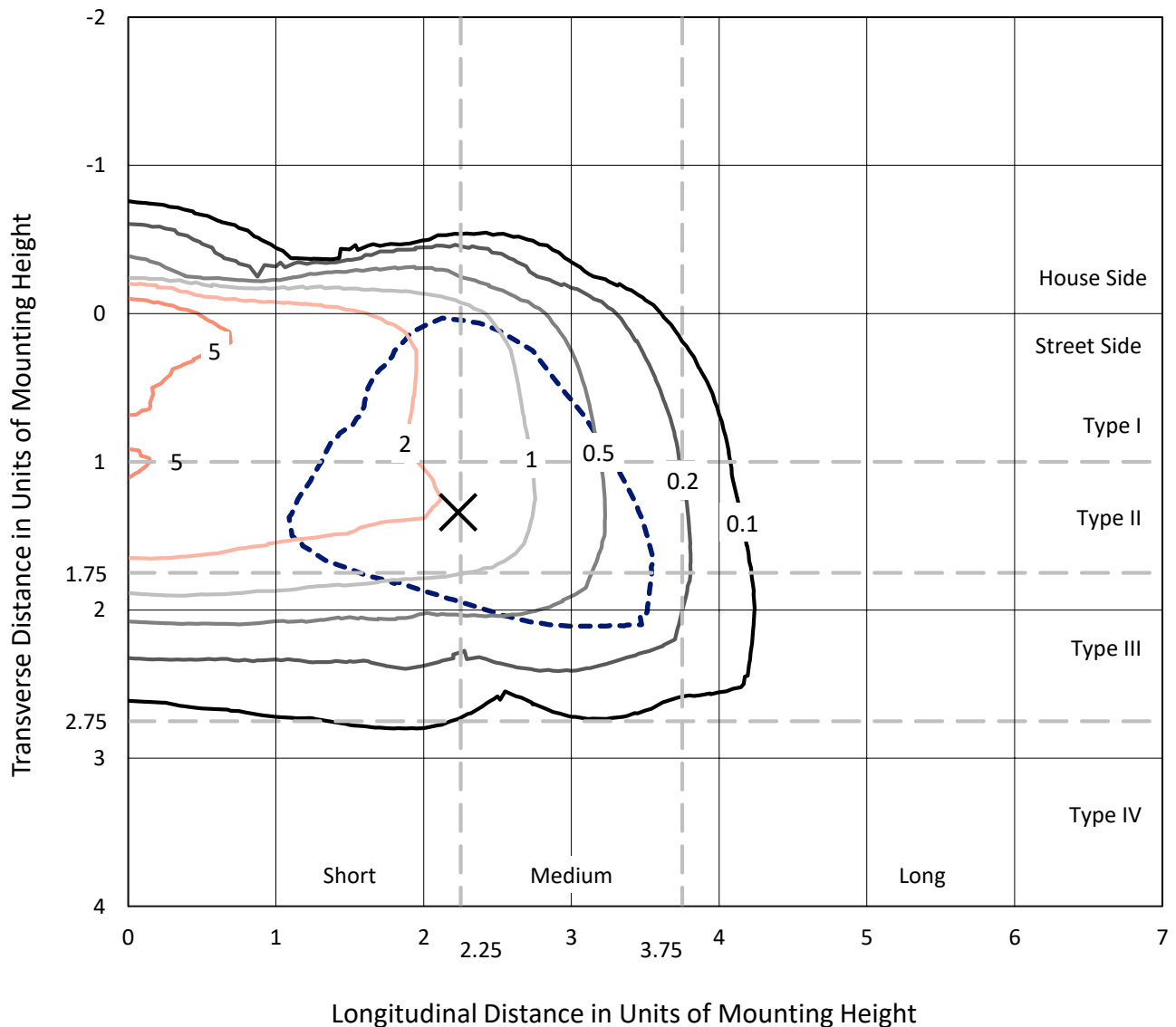


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

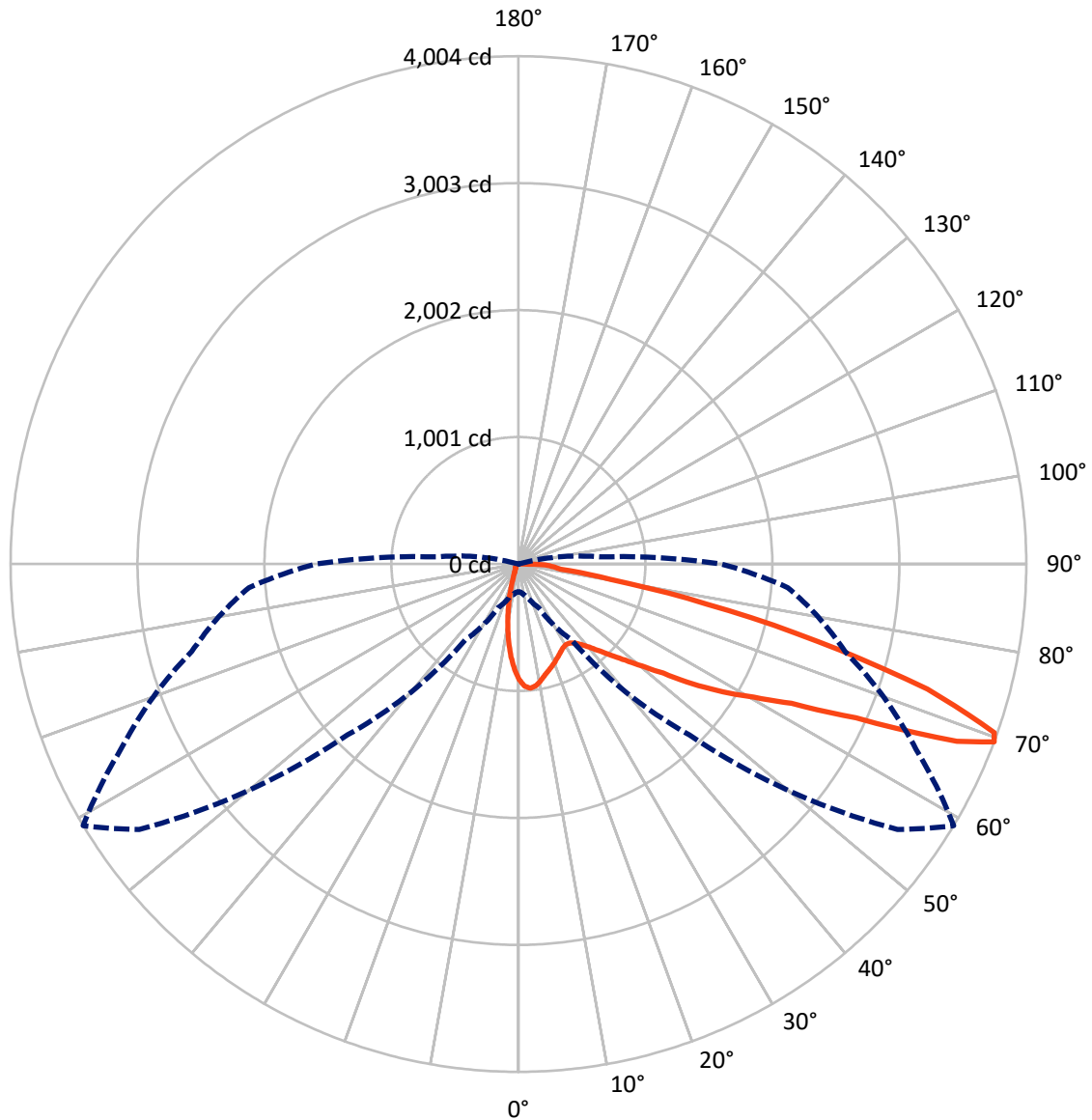


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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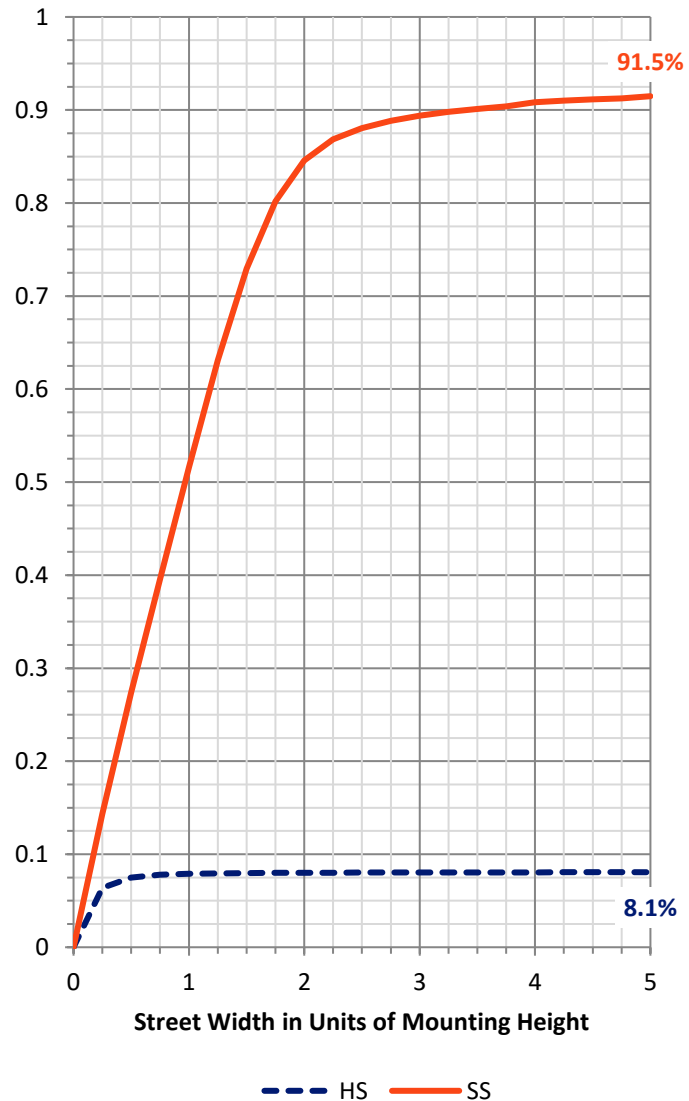
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	285.7	0.0	285.7
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	3222.3	0.0	3222.3
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	3508.0	0.0	3508.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.1	2.1
10°-20°	153.1	4.4
20°-30°	206.1	5.9
30°-40°	299.2	8.5
40°-50°	498.2	14.2
50°-60°	777.2	22.2
60°-70°	961.7	27.4
70°-80°	487.4	13.9
80°-90°	51.0	1.5
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°	3508.0	100.0
0°-180°	3508.0	100.0



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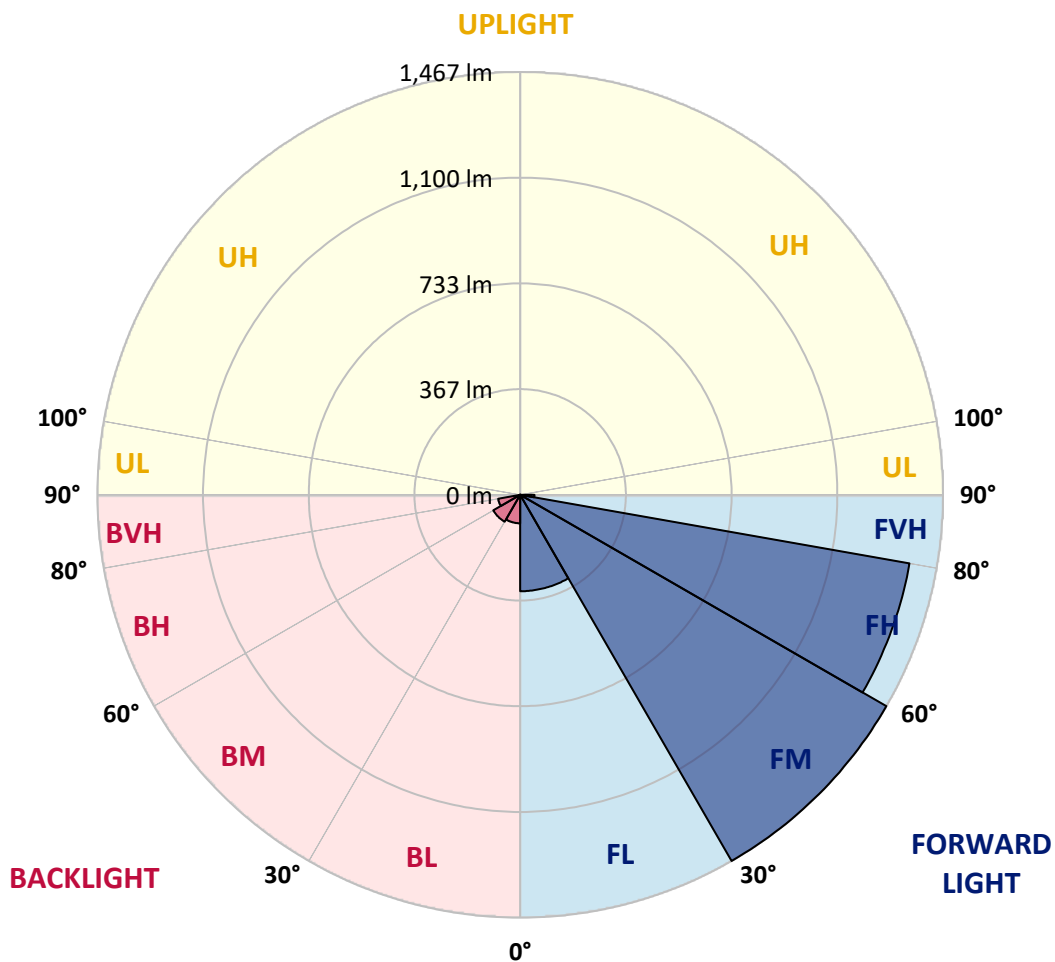
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.4	9.5			
FM (30°-60°)	1466.9	41.8			
FH (60°-80°)	1371.5	39.1			G1/1800
FVH (80°-90°)	49.4	1.4			G1/100
BL (0°-30°)	98.9	2.8	B0/110		
BM (30°-60°)	107.6	3.1	B0/220		
BH (60°-80°)	77.6	2.2	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	1000.8	1000.4	996.0	994.0	990.4	982.9	971.2	965.1	955.1	937.9	914.7
5°	991.6	996.4	999.0	999.2	1001.8	999.0	988.5	983.3	969.6	941.8	900.2
7.5°	929.7	931.5	938.9	945.2	957.5	969.2	973.0	970.8	962.7	932.9	877.6
10°	863.5	865.3	874.0	882.3	899.0	917.1	936.1	940.1	943.4	920.2	855.8
12.5°	806.4	808.1	817.1	828.0	847.4	869.6	899.2	905.7	920.6	908.1	838.3
15°	757.2	758.0	766.7	780.2	803.4	832.0	865.5	876.0	898.8	899.6	823.0
17.5°	715.3	717.3	722.7	735.5	760.9	796.2	835.3	850.4	877.2	892.5	808.1
20°	689.7	691.7	691.5	698.6	721.5	759.2	805.2	823.2	855.8	885.1	794.9
22.5°	684.8	684.8	679.6	678.6	692.1	723.6	773.8	795.8	836.5	881.9	785.5
25°	702.4	701.6	688.7	678.2	678.8	697.7	743.5	769.7	820.2	884.1	780.6
27.5°	739.7	738.7	722.5	702.4	686.4	686.2	720.5	748.6	807.4	894.4	782.6
30°	791.3	790.9	773.2	748.0	718.9	692.1	712.5	738.1	799.0	913.1	787.1
32.5°	847.6	847.0	833.7	807.2	770.3	718.9	720.9	742.3	801.4	937.9	798.2
35°	907.3	906.3	900.6	877.4	836.7	768.3	748.2	764.9	816.5	975.0	820.0
37.5°	972.0	973.0	977.2	954.9	912.3	837.5	794.1	805.4	846.8	1025.4	855.6
40°	1067.4	1067.2	1068.6	1039.4	998.4	922.2	858.1	861.7	897.6	1092.2	909.5
42.5°	1240.6	1228.5	1191.8	1132.3	1091.0	1019.0	938.9	935.1	959.7	1174.9	985.1
45°	1473.3	1447.5	1352.3	1238.2	1185.4	1128.1	1038.3	1026.2	1041.8	1274.3	1078.3
47.5°	1673.4	1646.6	1512.0	1348.5	1285.6	1231.7	1154.7	1132.9	1138.0	1385.6	1196.6
50°	1741.5	1728.4	1610.7	1444.5	1382.6	1362.0	1289.8	1263.2	1255.9	1514.3	1333.6
52.5°	1717.9	1716.9	1638.5	1506.8	1471.5	1496.9	1459.8	1429.0	1402.1	1650.0	1473.1
55°	1680.0	1684.9	1649.8	1561.3	1560.2	1620.1	1692.3	1666.7	1588.5	1797.4	1593.3
57.5°	1575.4	1596.7	1643.5	1664.5	1713.3	1774.6	1885.9	1901.0	1808.5	1910.3	1693.1
60°	1278.3	1324.9	1478.0	1679.4	1910.7	2063.4	2119.6	2132.4	1989.0	2004.1	1827.8
62.5°	907.3	954.9	1149.1	1489.7	1913.6	2442.9	2467.7	2417.1	2187.8	2143.2	2060.0
65°	481.6	518.3	677.0	1075.3	1659.1	2531.0	3076.5	2925.7	2538.5	2416.7	2360.2
67.5°	246.4	257.5	320.6	526.3	1140.6	2248.1	3622.2	3728.3	3142.9	2688.1	2345.7
69°	218.0	224.6	266.4	380.5	730.4	1904.1	3648.8	4003.8	3459.3	2665.5	2131.7
70°	211.1	216.8	254.9	344.4	570.9	1596.9	3547.0	3979.6	3540.3	2579.4	1971.8
72.5°	179.1	184.1	226.9	304.3	464.0	792.7	2881.3	3372.2	3176.8	2148.7	1427.3
75°	119.8	136.1	217.8	285.3	431.6	450.3	1899.6	2436.9	2263.8	1449.3	743.5
77.5°	28.8	30.9	61.5	226.9	394.8	396.3	977.0	1514.9	1235.6	516.5	175.8
80°	15.5	14.9	17.3	45.0	367.6	371.9	439.8	735.3	441.2	85.7	57.9
82.5°	10.9	10.3	11.1	18.8	115.6	338.8	318.2	332.9	182.9	32.9	26.0
85°	4.0	3.8	6.1	17.1	36.3	194.8	326.9	274.5	148.2	15.1	19.0
87.5°	1.4	1.2	2.4	9.3	11.1	82.9	201.7	207.5	58.3	9.1	8.9
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°	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1	913.1
2.5°	905.0	892.7	870.0	846.8	825.4	799.6	786.7	774.0	768.7	766.7	757.4
5°	878.8	857.9	809.9	761.7	717.3	670.1	638.9	613.9	599.3	592.1	580.8
7.5°	845.2	811.1	738.3	663.9	594.7	526.5	475.9	437.0	410.2	397.3	385.6
10°	812.7	767.3	663.7	562.4	468.3	377.9	308.1	257.5	225.1	210.3	200.7
12.5°	783.6	724.6	591.7	463.4	345.4	239.4	168.4	128.1	108.1	101.2	97.8
15°	757.6	685.4	523.7	369.4	233.9	136.9	92.0	78.4	75.2	75.2	74.8
17.5°	733.0	646.9	458.0	281.1	146.8	83.7	70.0	68.2	68.2	69.0	69.0
20°	709.4	610.2	394.6	201.7	92.4	66.5	63.3	62.9	63.3	64.3	64.3
22.5°	689.1	576.9	335.2	138.5	68.6	59.9	58.3	57.7	57.9	58.5	58.9
25°	674.1	548.7	279.3	93.8	59.1	54.6	52.8	51.8	51.0	51.0	51.4
27.5°	664.5	524.9	225.1	68.2	53.2	49.6	46.8	45.2	43.4	42.5	42.8
30°	657.6	502.3	174.4	55.7	47.6	44.0	40.5	37.9	35.3	34.1	34.5
32.5°	655.0	484.0	130.3	49.2	42.6	38.7	34.3	30.9	28.2	27.2	27.4
35°	662.0	469.5	95.4	44.4	38.7	33.7	28.8	25.0	22.8	22.2	22.4
37.5°	680.2	461.8	71.4	40.5	35.1	29.6	24.0	20.4	19.0	19.0	19.2
40°	714.7	461.6	57.3	37.7	31.9	25.6	19.8	17.3	16.5	16.9	17.1
42.5°	765.1	472.1	50.0	35.1	29.2	21.8	16.5	14.7	14.5	14.9	15.1
45°	833.9	491.4	46.0	32.9	26.2	18.2	13.9	12.7	12.7	13.3	13.5
47.5°	918.2	519.5	42.6	30.7	23.2	15.3	11.9	11.1	11.3	11.9	12.1
50°	1019.8	555.0	39.3	28.4	21.0	12.7	10.3	9.7	9.9	10.7	10.9
52.5°	1135.5	602.8	36.5	26.2	18.2	10.5	8.7	8.3	8.7	9.5	9.7
55°	1234.6	645.7	33.1	24.4	14.7	8.7	7.1	7.1	7.5	8.5	8.7
57.5°	1330.1	690.5	30.2	21.0	11.5	6.9	6.0	6.1	6.7	7.7	7.9
60°	1470.1	766.5	26.6	17.7	8.7	5.6	5.0	5.2	6.0	6.9	7.1
62.5°	1707.9	882.1	23.0	14.7	6.7	4.4	4.0	4.4	5.4	6.5	6.7
65°	1922.6	929.2	18.8	12.3	5.2	3.4	3.4	4.0	5.2	6.3	6.5
67.5°	1803.0	782.2	14.7	9.7	4.0	2.6	2.8	3.8	5.0	6.3	6.5
69°	1594.5	639.5	12.5	7.7	3.4	2.4	2.6	3.8	5.0	6.1	6.3
70°	1432.0	540.0	11.1	6.5	3.0	2.4	2.6	3.6	5.0	6.1	6.3
72.5°	959.1	291.6	8.9	4.8	2.8	2.2	2.2	3.6	4.8	6.0	6.1
75°	412.2	80.5	7.1	3.4	2.4	2.0	2.0	3.4	4.6	5.8	6.1
77.5°	75.4	20.4	5.8	3.0	2.4	2.0	1.8	3.2	4.4	5.6	5.8
80°	30.0	10.1	4.6	2.6	2.2	1.8	1.6	3.0	4.2	5.4	5.6
82.5°	18.1	5.8	3.8	2.4	2.2	1.6	1.4	2.6	4.0	5.2	5.4
85°	14.7	4.0	3.0	2.4	2.0	1.6	1.2	2.4	3.6	5.0	5.2
87.5°	7.1	2.8	2.8	2.2	2.0	1.6	1.2	2.2	3.4	4.8	5.0
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)