

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: P191109

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191109  
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-SL3-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 3588.5 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

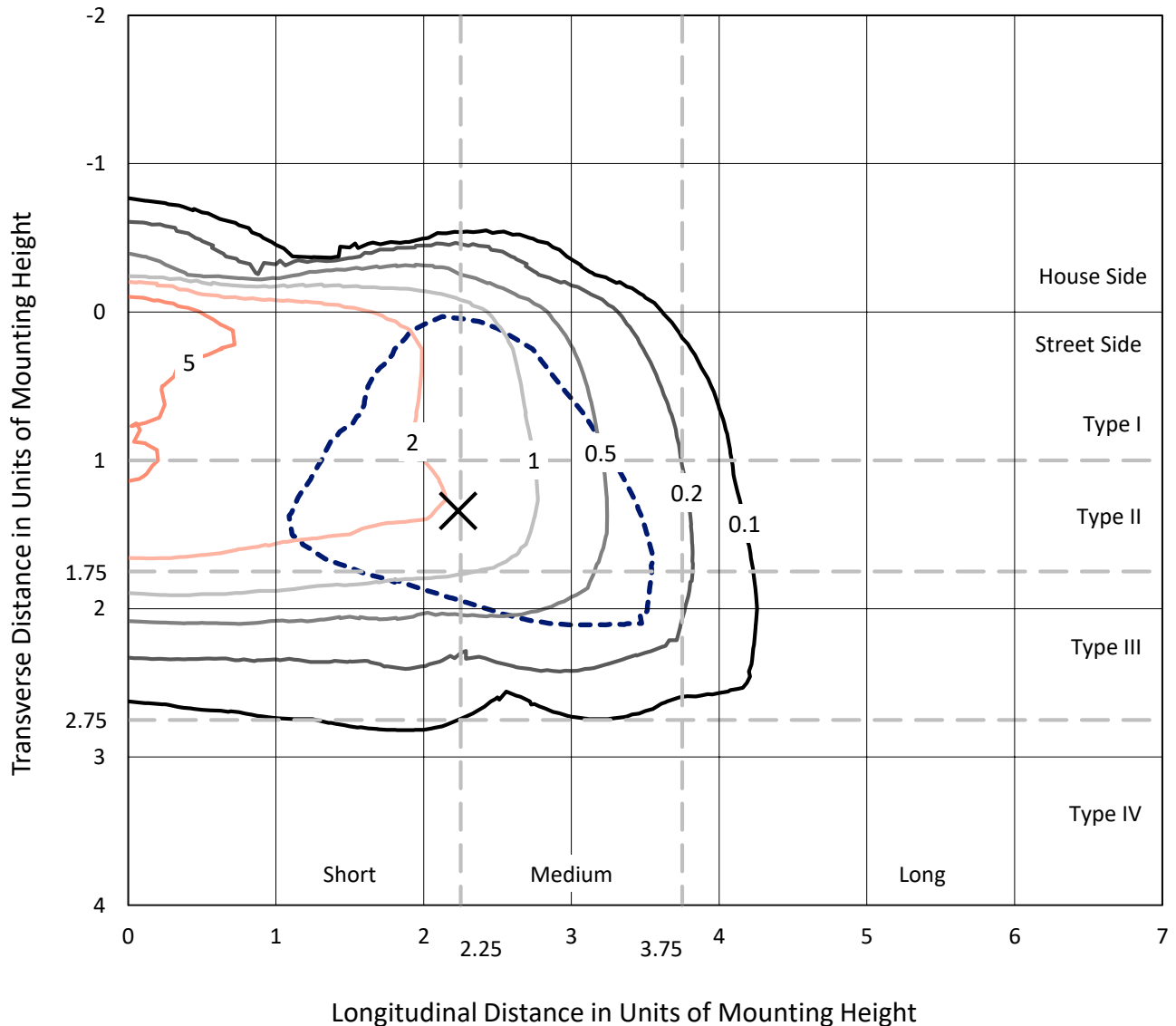


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### Iso-Footcandle Lines of Horizontal Illumination

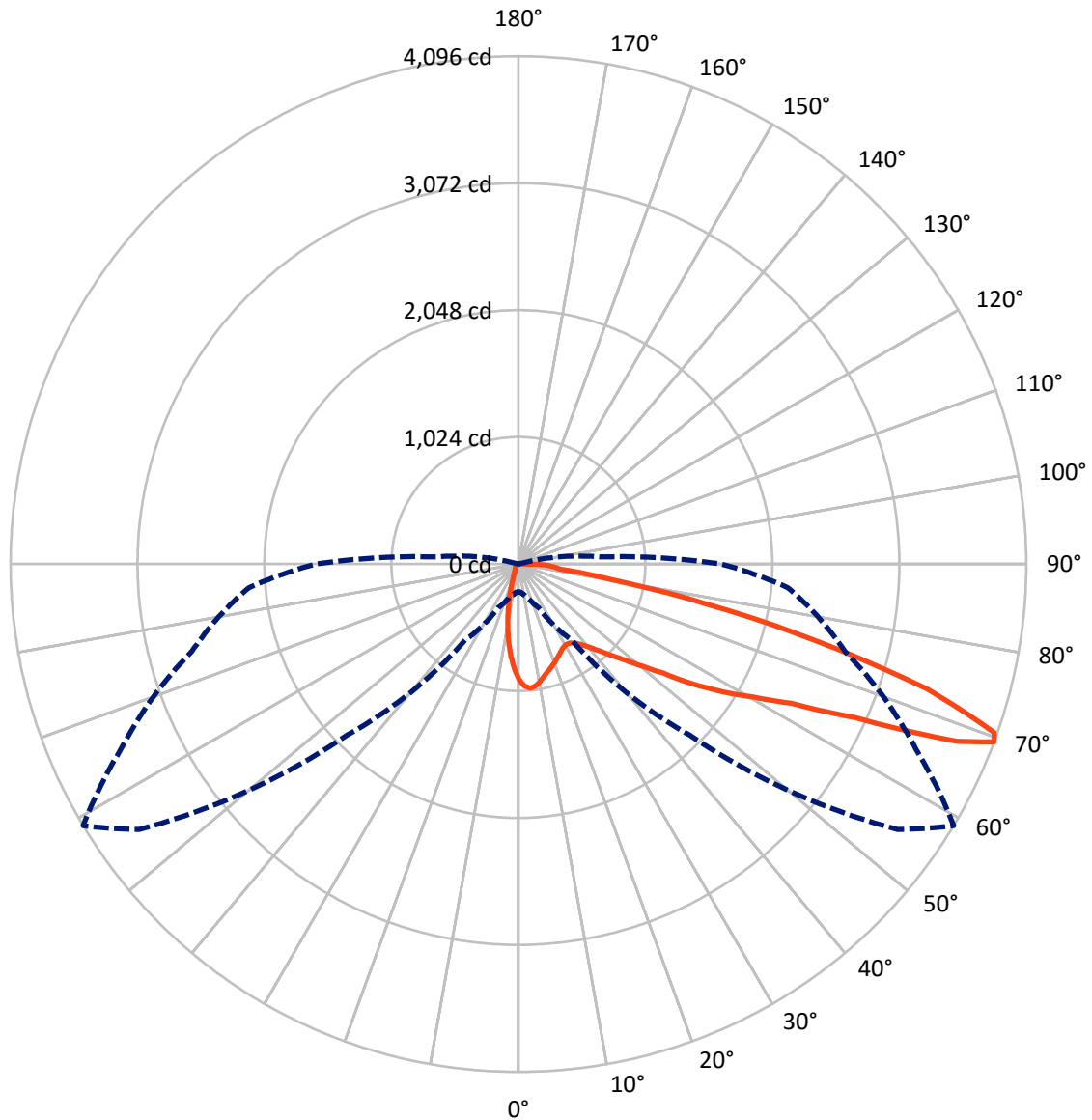
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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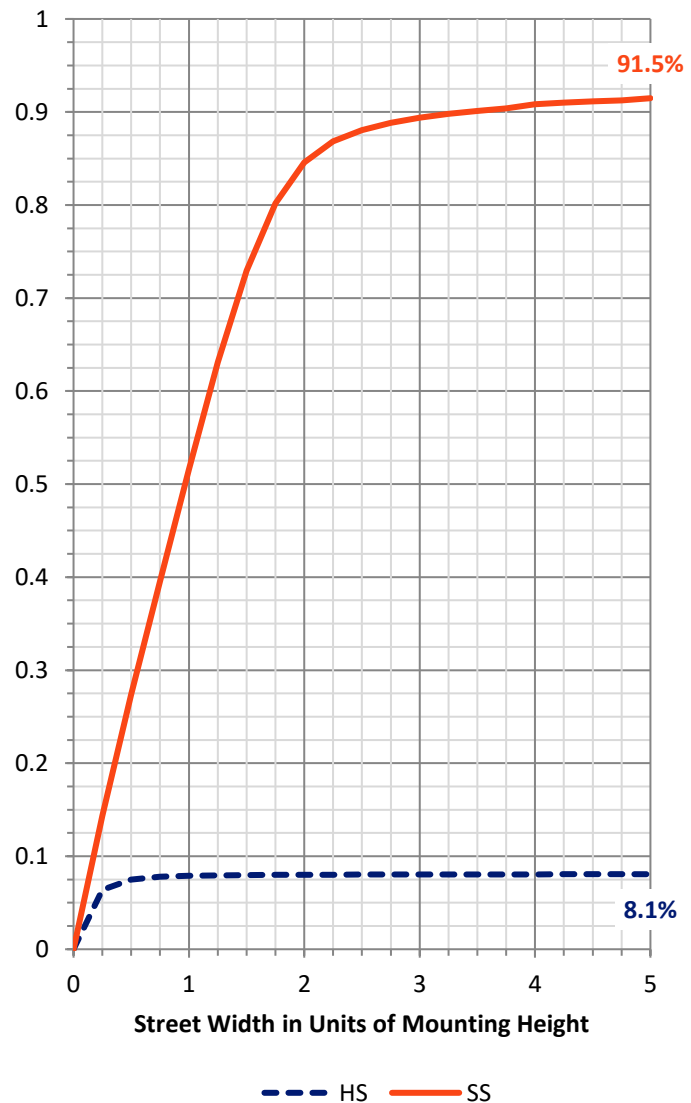
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	292.3	0.0	292.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	3296.3	0.0	3296.3
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	3588.5	0.0	3588.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.8	2.1
10°-20°	156.7	4.4
20°-30°	210.8	5.9
30°-40°	306.1	8.5
40°-50°	509.6	14.2
50°-60°	795.0	22.2
60°-70°	983.8	27.4
70°-80°	498.6	13.9
80°-90°	52.2	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°	3588.5	100.0
0°-180°	3588.5	100.0



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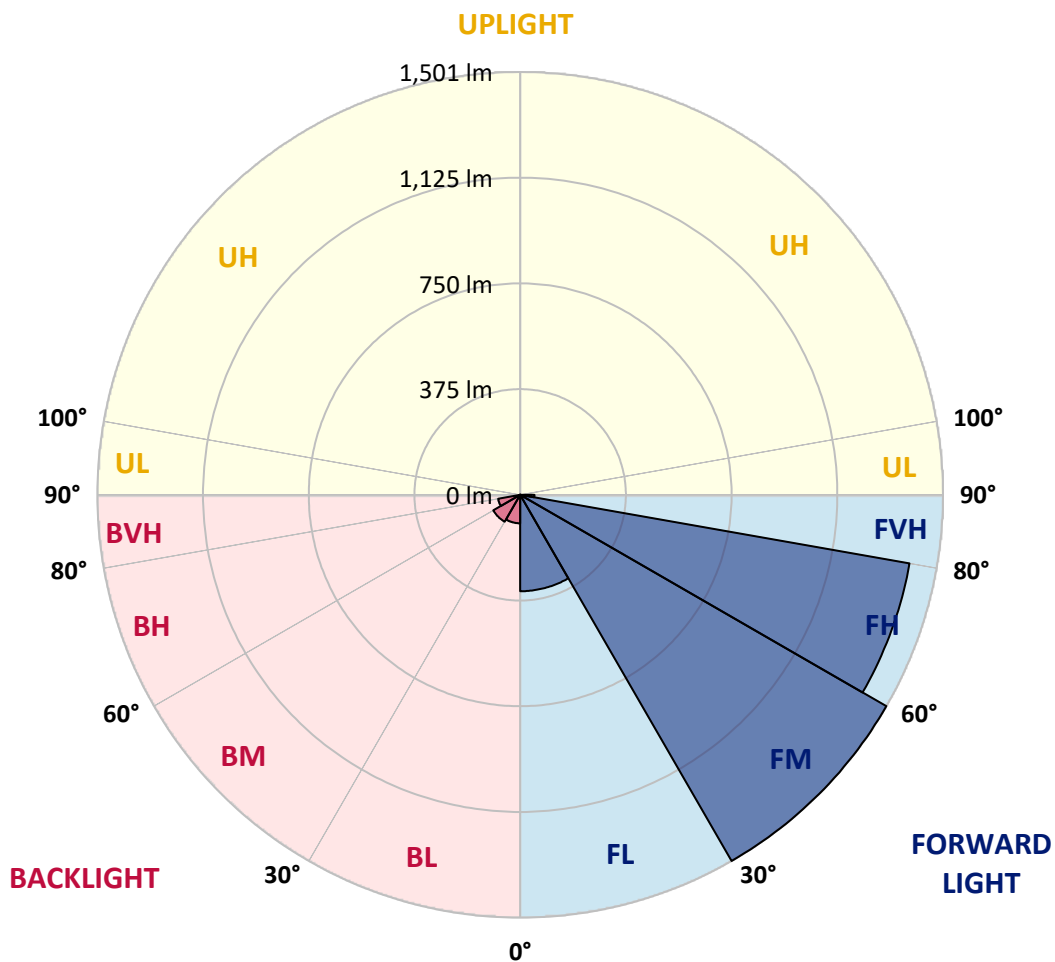
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	342.1	9.5			
FM	(30°-60°)	1500.6	41.8			
FH	(60°-80°)	1403.0	39.1			G1/1800
FVH	(80°-90°)	50.6	1.4			G1/100
BL	(0°-30°)	101.2	2.8	B0/110		
BM	(30°-60°)	110.1	3.1	B0/220		
BH	(60°-80°)	79.4	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°	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1
2.5°	1023.8	1023.4	1018.9	1016.8	1013.1	1005.5	993.5	987.2	977.0	959.4	935.7
5°	1014.4	1019.3	1021.9	1022.1	1024.8	1021.9	1011.2	1005.9	991.9	963.4	920.9
7.5°	951.0	952.9	960.4	966.9	979.5	991.4	995.3	993.1	984.8	954.3	897.7
10°	883.3	885.2	894.1	902.5	919.6	938.1	957.6	961.7	965.1	941.3	875.4
12.5°	824.9	826.6	835.9	847.0	866.8	889.6	919.8	926.5	941.7	928.9	857.5
15°	774.6	775.4	784.3	798.1	821.8	851.1	885.4	896.1	919.4	920.2	841.9
17.5°	731.7	733.8	739.3	752.4	778.4	814.5	854.5	869.9	897.3	913.0	826.6
20°	705.5	707.6	707.4	714.6	738.1	776.6	823.7	842.1	875.4	905.4	813.1
22.5°	700.5	700.5	695.2	694.2	708.0	740.2	791.6	814.1	855.7	902.1	803.5
25°	718.5	717.7	704.5	693.8	694.4	713.7	760.6	787.4	839.0	904.4	798.5
27.5°	756.7	755.7	739.1	718.5	702.2	701.9	737.0	765.8	825.9	914.9	800.6
30°	809.5	809.1	790.9	765.2	735.4	708.0	728.9	755.0	817.3	934.1	805.2
32.5°	867.1	866.4	852.8	825.7	788.0	735.4	737.4	759.3	819.8	959.4	816.5
35°	928.1	927.1	921.3	897.5	855.9	785.9	765.4	782.5	835.2	997.4	838.8
37.5°	994.3	995.3	999.6	976.8	933.2	856.7	812.3	823.9	866.2	1048.9	875.2
40°	1091.9	1091.7	1093.1	1063.3	1021.3	943.4	877.8	881.5	918.2	1117.3	930.4
42.5°	1269.1	1256.7	1219.2	1158.3	1116.0	1042.4	960.4	956.6	981.7	1201.9	1007.7
45°	1507.1	1480.7	1383.3	1266.6	1212.6	1154.0	1062.1	1049.8	1065.7	1303.5	1103.0
47.5°	1711.8	1684.4	1546.7	1379.4	1315.1	1260.0	1181.2	1158.9	1164.1	1417.4	1224.1
50°	1781.5	1768.1	1647.7	1477.7	1414.3	1393.3	1319.4	1292.2	1284.7	1549.1	1364.2
52.5°	1757.3	1756.3	1676.1	1541.4	1505.3	1531.3	1493.3	1461.8	1434.3	1687.9	1506.9
55°	1718.6	1723.6	1687.7	1597.1	1596.0	1657.3	1731.1	1705.0	1625.0	1838.7	1629.9
57.5°	1611.6	1633.3	1681.2	1702.7	1752.6	1815.3	1929.2	1944.6	1850.0	1954.1	1732.0
60°	1307.6	1355.3	1511.9	1717.9	1954.6	2110.8	2168.2	2181.3	2034.6	2050.1	1869.7
62.5°	928.1	976.8	1175.5	1523.9	1957.5	2499.0	2524.3	2472.6	2238.0	2192.4	2107.3
65°	492.7	530.2	692.5	1100.0	1697.2	2589.1	3147.1	2992.8	2596.8	2472.2	2414.4
67.5°	252.1	263.4	328.0	538.4	1166.8	2299.7	3705.3	3813.9	3215.0	2749.8	2399.5
69°	223.0	229.8	272.5	389.2	747.2	1947.8	3732.5	4095.7	3538.7	2726.7	2180.6
70°	215.9	221.8	260.8	352.3	584.0	1633.6	3628.4	4070.9	3621.6	2638.6	2017.1
72.5°	183.2	188.3	232.1	311.3	474.6	810.9	2947.4	3449.6	3249.7	2198.0	1460.1
75°	122.5	139.2	222.8	291.8	441.5	460.6	1943.2	2492.8	2315.8	1482.6	760.6
77.5°	29.5	31.6	62.9	232.1	403.9	405.4	999.4	1549.7	1264.0	528.4	179.8
80°	15.9	15.2	17.7	46.0	376.0	380.4	449.9	752.2	451.3	87.7	59.2
82.5°	11.2	10.5	11.4	19.2	118.3	346.6	325.5	340.5	187.1	33.7	26.6
85°	4.1	3.9	6.2	17.5	37.1	199.3	334.4	280.8	151.6	15.4	19.4
87.5°	1.4	1.2	2.5	9.5	11.4	84.8	206.3	212.3	59.6	9.3	9.1
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°	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1	934.1
2.5°	925.8	913.2	890.0	866.2	844.3	818.0	804.8	791.8	786.3	784.3	774.8
5°	899.0	877.6	828.5	779.2	733.8	685.5	653.6	628.0	613.1	605.7	594.1
7.5°	864.6	829.7	755.2	679.1	608.3	538.6	486.8	447.0	419.6	406.4	394.4
10°	831.4	784.9	678.9	575.3	479.0	386.6	315.2	263.4	230.3	215.1	205.3
12.5°	801.6	741.2	605.3	474.0	353.3	244.9	172.3	131.0	110.6	103.5	100.0
15°	775.0	701.1	535.7	377.9	239.3	140.0	94.1	80.2	76.9	76.9	76.5
17.5°	749.8	661.7	468.5	287.6	150.2	85.6	71.6	69.8	69.8	70.6	70.6
20°	725.7	624.2	403.7	206.3	94.5	68.0	64.8	64.3	64.8	65.8	65.8
22.5°	704.9	590.1	342.9	141.7	70.2	61.3	59.6	59.0	59.2	59.8	60.3
25°	689.6	561.3	285.7	96.0	60.5	55.9	54.0	53.0	52.2	52.2	52.6
27.5°	679.8	536.9	230.3	69.8	54.4	50.7	47.9	46.2	44.4	43.5	43.8
30°	672.7	513.8	178.4	57.0	48.7	45.0	41.4	38.8	36.1	34.9	35.3
32.5°	670.0	495.1	133.3	50.3	43.6	39.6	35.1	31.6	28.8	27.8	28.0
35°	677.2	480.3	97.6	45.4	39.6	34.5	29.5	25.6	23.3	22.7	22.9
37.5°	695.8	472.4	73.0	41.4	35.9	30.3	24.6	20.9	19.4	19.4	19.6
40°	731.1	472.2	58.6	38.6	32.6	26.2	20.3	17.7	16.9	17.3	17.5
42.5°	782.7	482.9	51.1	35.9	29.9	22.3	16.9	15.0	14.8	15.2	15.4
45°	853.0	502.7	47.1	33.7	26.8	18.6	14.2	13.0	13.0	13.6	13.8
47.5°	939.3	531.4	43.6	31.4	23.7	15.7	12.2	11.4	11.6	12.2	12.4
50°	1043.2	567.7	40.2	29.1	21.5	13.0	10.5	9.9	10.1	10.9	11.2
52.5°	1161.6	616.6	37.3	26.8	18.6	10.7	8.9	8.5	8.9	9.7	9.9
55°	1262.9	660.5	33.9	25.0	15.0	8.9	7.3	7.3	7.7	8.7	8.9
57.5°	1360.6	706.3	30.9	21.5	11.8	7.1	6.1	6.2	6.9	7.9	8.1
60°	1503.8	784.1	27.2	18.1	8.9	5.7	5.1	5.3	6.1	7.1	7.3
62.5°	1747.1	902.3	23.5	15.0	6.9	4.5	4.1	4.5	5.5	6.6	6.9
65°	1966.7	950.5	19.2	12.6	5.3	3.5	3.5	4.1	5.3	6.4	6.6
67.5°	1844.4	800.2	15.0	9.9	4.1	2.7	2.9	3.9	5.1	6.4	6.6
69°	1631.1	654.2	12.8	7.9	3.5	2.5	2.7	3.9	5.1	6.2	6.4
70°	1464.9	552.4	11.4	6.6	3.1	2.5	2.7	3.7	5.1	6.2	6.4
72.5°	981.1	298.3	9.1	4.9	2.9	2.3	2.3	3.7	4.9	6.1	6.2
75°	421.7	82.3	7.3	3.5	2.5	2.0	2.0	3.5	4.7	5.9	6.2
77.5°	77.1	20.9	5.9	3.1	2.5	2.0	1.8	3.3	4.5	5.7	5.9
80°	30.7	10.3	4.7	2.7	2.3	1.8	1.6	3.1	4.3	5.5	5.7
82.5°	18.5	5.9	3.9	2.5	2.3	1.6	1.4	2.7	4.1	5.3	5.5
85°	15.0	4.1	3.1	2.5	2.0	1.6	1.2	2.5	3.7	5.1	5.3
87.5°	7.3	2.9	2.9	2.3	2.0	1.6	1.2	2.3	3.5	4.9	5.1
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)