

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: P194039

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5704 lumens  
Efficiency: N/A  
Efficacy: 85.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 67  
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

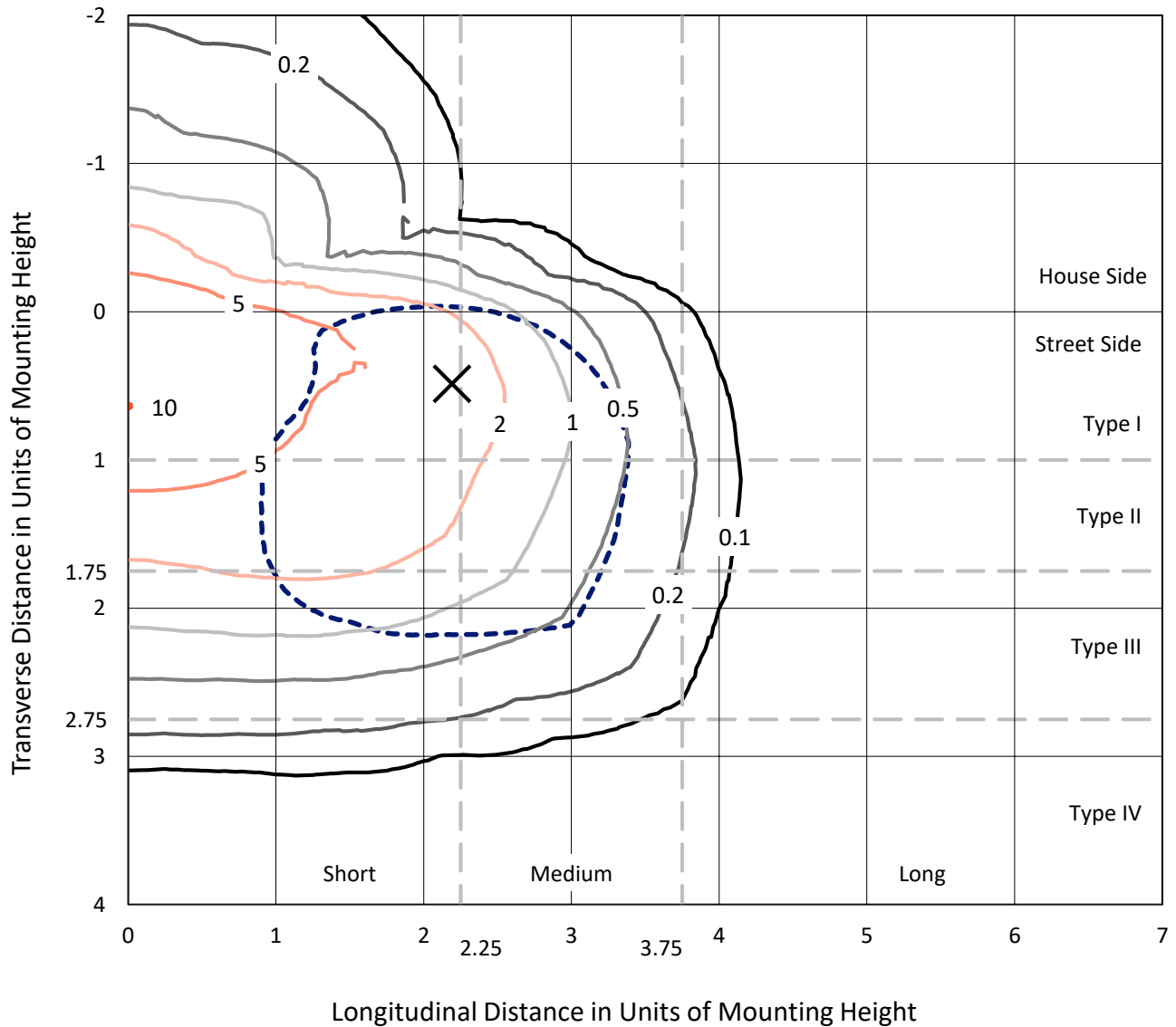


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### Iso-Footcandle Lines of Horizontal Illumination

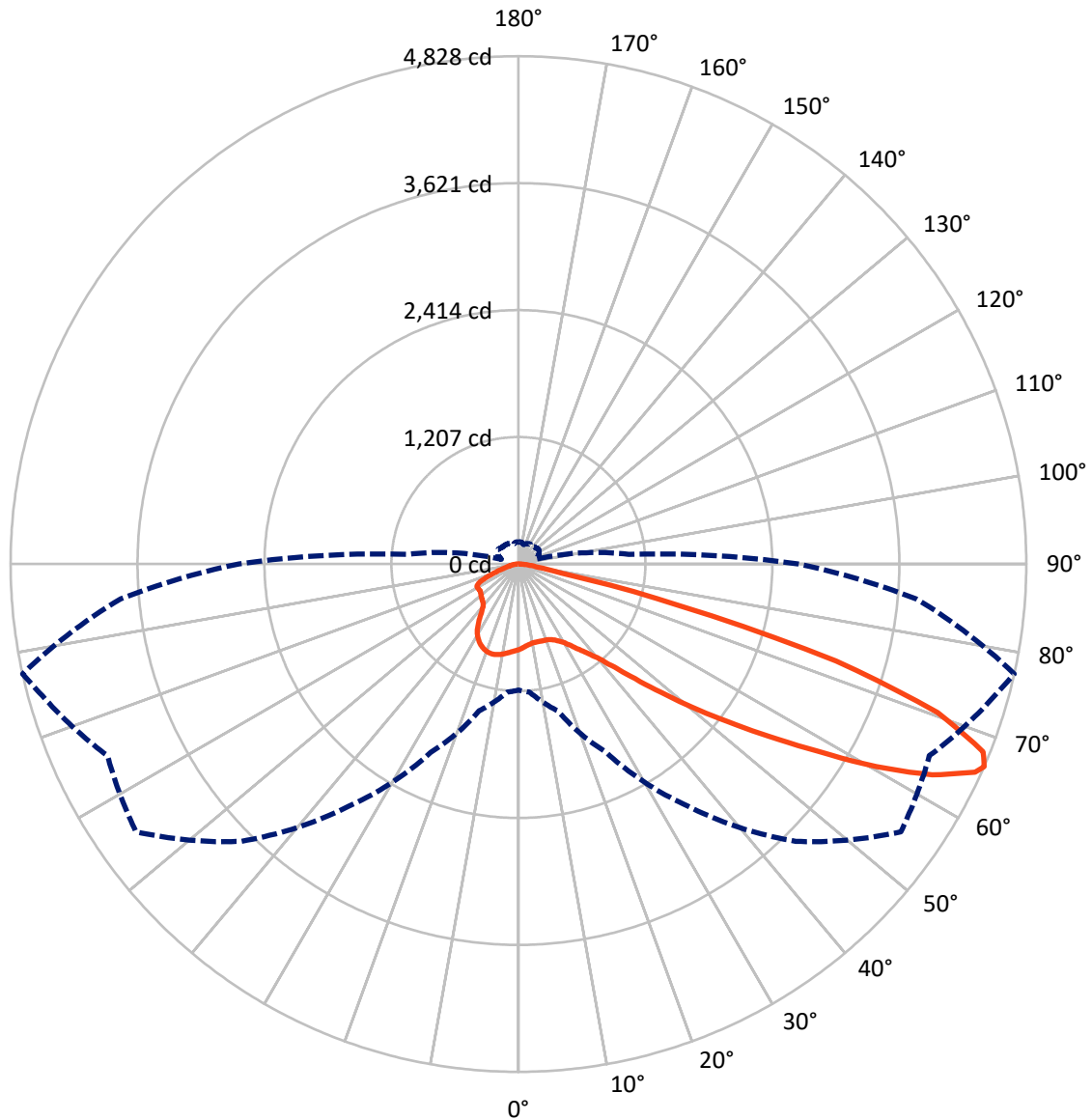
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	974.5	0.0	974.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	4729.5	0.0	4729.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	5704.0	0.0	5704.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.6	1.3
10°-20°	204.9	3.6
20°-30°	349.7	6.1
30°-40°	559.7	9.8
40°-50°	864.7	15.2
50°-60°	1226.5	21.5
60°-70°	1640.7	28.8
70°-80°	712.5	12.5
80°-90°	72.7	1.3
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°	5704.0	100.0
0°-180°	5704.0	100.0



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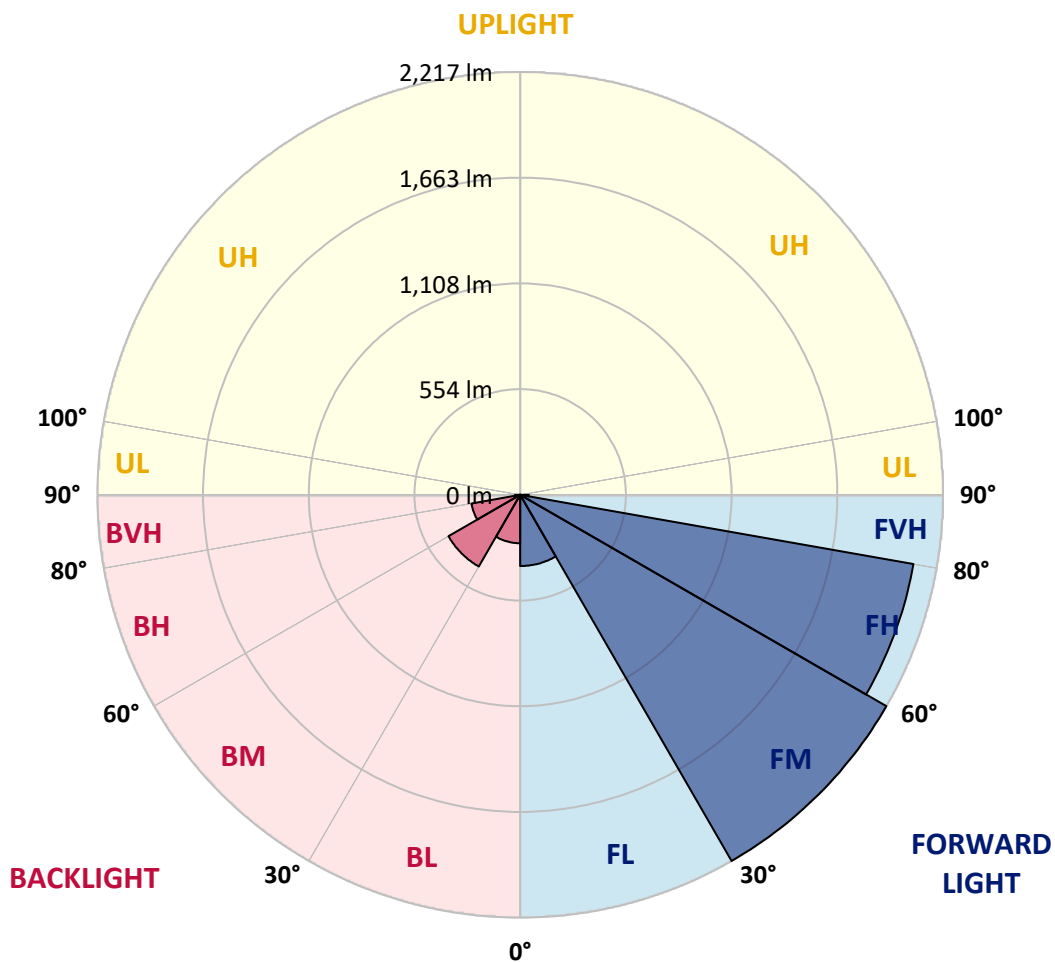
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.4	6.5			
FM	(30°-60°)	2216.9	38.9			
FH	(60°-80°)	2093.7	36.7			G2/5000
FVH	(80°-90°)	45.6	0.8			G1/100
BL	(0°-30°)	253.8	4.4	B1/500		
BM	(30°-60°)	434.1	7.6	B1/1000		
BH	(60°-80°)	259.5	4.5	B1/500		G1/500
BVH	(80°-90°)	27.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8
2.5°	719.1	723.9	728.0	731.7	739.3	751.7	766.0	777.5	794.3	797.5	806.4
5°	653.0	653.0	656.3	661.9	672.2	690.8	710.2	736.0	772.4	781.0	804.8
7.5°	621.0	621.2	623.1	628.0	636.9	653.8	675.1	705.6	754.9	769.2	809.6
10°	632.8	630.1	626.1	623.6	625.0	635.0	655.2	689.1	744.1	762.4	820.4
12.5°	699.1	694.0	680.0	661.4	643.6	636.3	648.2	681.3	739.5	760.8	834.7
15°	807.5	805.3	779.2	740.6	697.5	661.4	653.3	678.4	740.1	762.7	851.7
17.5°	943.3	940.3	905.8	849.8	779.4	709.1	671.4	680.8	742.0	766.0	868.1
20°	1080.5	1071.3	1034.1	967.3	877.0	774.0	701.3	687.0	744.4	769.5	885.3
22.5°	1182.9	1175.3	1141.9	1077.0	972.9	849.2	741.4	697.8	752.2	779.7	906.6
25°	1272.9	1273.4	1240.3	1177.5	1070.0	929.0	793.2	726.6	772.2	800.7	935.7
27.5°	1384.2	1377.7	1346.7	1284.5	1165.9	1009.6	855.7	766.2	801.8	830.6	974.0
30°	1517.4	1512.8	1476.9	1406.3	1272.4	1096.1	927.1	812.3	840.1	870.0	1024.1
32.5°	1673.9	1671.8	1634.6	1543.8	1395.3	1198.0	1010.9	873.2	897.2	928.2	1096.1
35°	1857.7	1858.0	1814.1	1704.9	1529.7	1316.6	1106.1	951.6	966.7	999.1	1181.8
37.5°	1970.9	1984.7	1968.2	1856.9	1682.0	1449.2	1229.5	1055.7	1046.0	1078.6	1273.7
40°	1995.2	2011.9	2063.9	2007.3	1852.4	1595.2	1338.9	1155.7	1143.5	1183.4	1392.0
42.5°	1961.2	1984.4	2094.4	2134.3	2033.2	1775.3	1486.1	1304.2	1288.8	1342.4	1539.2
45°	1941.0	1958.3	2085.5	2200.3	2190.1	1978.8	1673.4	1490.7	1485.0	1555.4	1709.0
47.5°	1906.0	1921.6	2044.0	2215.7	2282.2	2165.3	1898.4	1718.7	1729.7	1821.9	1900.6
50°	1924.9	1931.3	1997.6	2176.6	2308.9	2301.9	2149.9	1982.8	2020.5	2135.6	2117.6
52.5°	1922.2	1938.9	1992.2	2112.4	2312.4	2386.3	2397.6	2277.4	2356.9	2488.9	2358.2
55°	1554.0	1584.7	1928.9	2096.3	2324.8	2469.0	2618.0	2587.9	2736.1	2890.0	2629.9
57.5°	1483.9	1503.3	1694.2	2130.2	2390.6	2626.9	2863.3	2929.6	3177.5	3356.2	2960.9
60°	1470.2	1494.2	1691.7	2171.7	2524.0	2884.3	3226.9	3343.3	3714.7	3910.3	3344.6
62.5°	1427.3	1453.2	1675.8	2166.3	2713.4	3240.3	3692.3	3783.1	4224.1	4414.3	3665.6
65°	1291.5	1315.8	1546.2	2079.3	2841.2	3620.3	4243.2	4186.3	4626.2	4769.3	3825.7
66°	1198.5	1222.2	1444.0	1976.9	2811.5	3728.2	4438.3	4311.1	4716.2	4828.3	3794.5
67.5°	1028.5	1047.1	1245.7	1747.5	2653.9	3758.3	4602.5	4404.9	4725.6	4765.2	3615.8
70°	649.8	655.2	809.6	1206.3	2008.9	3259.5	4352.6	4172.0	4335.9	4228.6	3031.2
72.5°	281.9	280.0	388.6	613.7	1137.3	2187.1	3520.9	3442.5	3401.2	3156.5	2121.9
75°	156.9	159.0	201.9	284.9	462.2	1074.3	2303.2	2204.1	1861.0	1588.0	962.2
77.5°	125.9	128.8	167.4	202.1	207.5	374.6	1077.8	877.0	528.0	423.7	267.4
80°	99.4	104.8	146.1	157.4	139.9	154.4	348.2	278.4	208.9	191.6	138.5
82.5°	78.7	82.5	125.3	119.1	97.8	104.0	166.8	162.5	135.8	123.7	80.0
85°	56.6	63.6	103.0	89.7	64.1	70.1	110.8	106.2	77.9	63.6	35.3
87.5°	23.2	30.2	72.8	59.6	35.8	32.6	55.2	52.0	36.9	27.0	17.5
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°	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8	812.8
2.5°	812.0	818.5	826.9	832.0	834.7	836.6	839.5	839.3	840.1	840.3	841.4
5°	817.4	828.2	840.3	843.6	843.6	840.6	837.6	832.8	830.9	830.4	830.9
7.5°	831.4	843.3	853.8	850.0	842.0	830.1	814.7	801.3	794.0	791.6	791.0
10°	849.2	863.5	867.8	853.5	829.8	801.3	770.8	748.7	736.0	732.5	731.5
12.5°	870.8	884.3	878.3	848.2	804.2	758.1	716.1	680.8	654.4	646.0	645.5
15°	894.5	905.0	884.3	831.4	766.0	698.0	623.1	562.2	529.3	518.8	518.0
17.5°	916.6	922.0	880.8	802.3	709.6	599.7	500.2	453.3	442.0	444.7	445.2
20°	935.5	935.5	868.9	760.6	621.0	470.0	407.2	406.4	414.5	422.6	424.2
22.5°	956.2	943.8	848.2	701.5	495.4	384.6	375.4	383.0	392.1	401.0	402.4
25°	981.8	950.6	819.3	612.1	389.4	349.3	352.8	359.0	363.6	369.2	370.0
27.5°	1010.4	959.2	781.3	488.9	338.0	327.2	329.9	332.0	331.5	333.7	334.2
30°	1044.6	969.2	729.3	382.2	316.7	308.3	303.5	301.6	301.6	305.1	306.4
32.5°	1090.4	984.0	654.6	327.5	306.4	294.8	279.2	272.2	274.9	286.8	289.5
35°	1140.8	999.9	553.6	308.9	304.3	288.6	264.4	251.5	251.7	262.8	266.3
37.5°	1195.8	1020.1	442.8	305.4	309.1	288.9	256.6	238.8	231.5	231.5	232.9
40°	1266.2	1040.9	358.5	307.8	319.4	292.2	252.5	228.8	208.3	208.9	209.9
42.5°	1357.8	1058.6	313.2	312.9	331.8	296.5	252.3	215.6	197.8	209.9	221.0
45°	1459.7	1067.5	293.2	317.5	341.7	299.2	248.0	213.5	199.2	235.3	256.3
47.5°	1576.9	1062.4	282.2	319.1	344.2	299.2	243.1	218.6	208.6	272.5	297.0
50°	1705.5	1047.6	271.4	315.9	343.4	298.6	247.7	223.7	212.1	278.9	295.9
52.5°	1856.7	1035.2	260.1	308.9	337.7	295.7	253.1	221.5	201.1	253.6	265.5
55°	2029.2	1038.7	247.4	298.9	328.8	290.0	251.2	212.9	189.5	223.4	230.7
57.5°	2249.6	1080.5	232.3	286.2	316.7	280.6	244.4	208.9	186.0	202.7	207.0
60°	2495.7	1153.2	213.5	273.6	301.6	265.5	239.3	210.8	187.6	201.1	203.2
62.5°	2676.3	1195.6	197.3	255.0	281.1	248.8	232.9	213.2	191.9	206.7	206.2
65°	2725.3	1126.0	177.1	227.7	253.3	231.2	224.8	215.9	193.8	211.3	208.9
66°	2656.6	1051.1	168.2	215.1	239.3	222.6	220.7	215.6	193.0	211.8	207.8
67.5°	2489.7	897.5	152.8	196.5	217.0	209.7	214.3	213.2	190.8	211.3	205.6
70°	2030.5	612.3	130.7	163.6	180.6	184.6	201.9	204.6	183.8	201.9	189.5
72.5°	1418.7	373.0	115.6	126.9	146.1	157.4	184.9	192.7	174.4	176.3	164.4
75°	685.6	198.1	104.8	98.4	113.5	131.5	164.4	176.5	159.6	147.4	143.1
77.5°	213.7	121.0	88.9	79.2	88.9	106.2	137.5	154.7	142.0	123.4	121.8
80°	114.8	88.9	68.5	63.6	70.3	83.3	108.1	129.1	122.1	110.8	98.9
82.5°	75.7	57.7	50.7	49.3	53.6	63.6	80.3	107.0	107.0	94.9	69.0
85°	39.1	35.3	34.8	34.8	37.5	42.3	54.7	82.5	87.9	50.1	41.5
87.5°	19.4	20.2	18.9	19.7	21.0	20.8	26.1	41.5	49.6	30.5	25.3
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)