

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: P269032

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269032  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 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: 6073.4 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

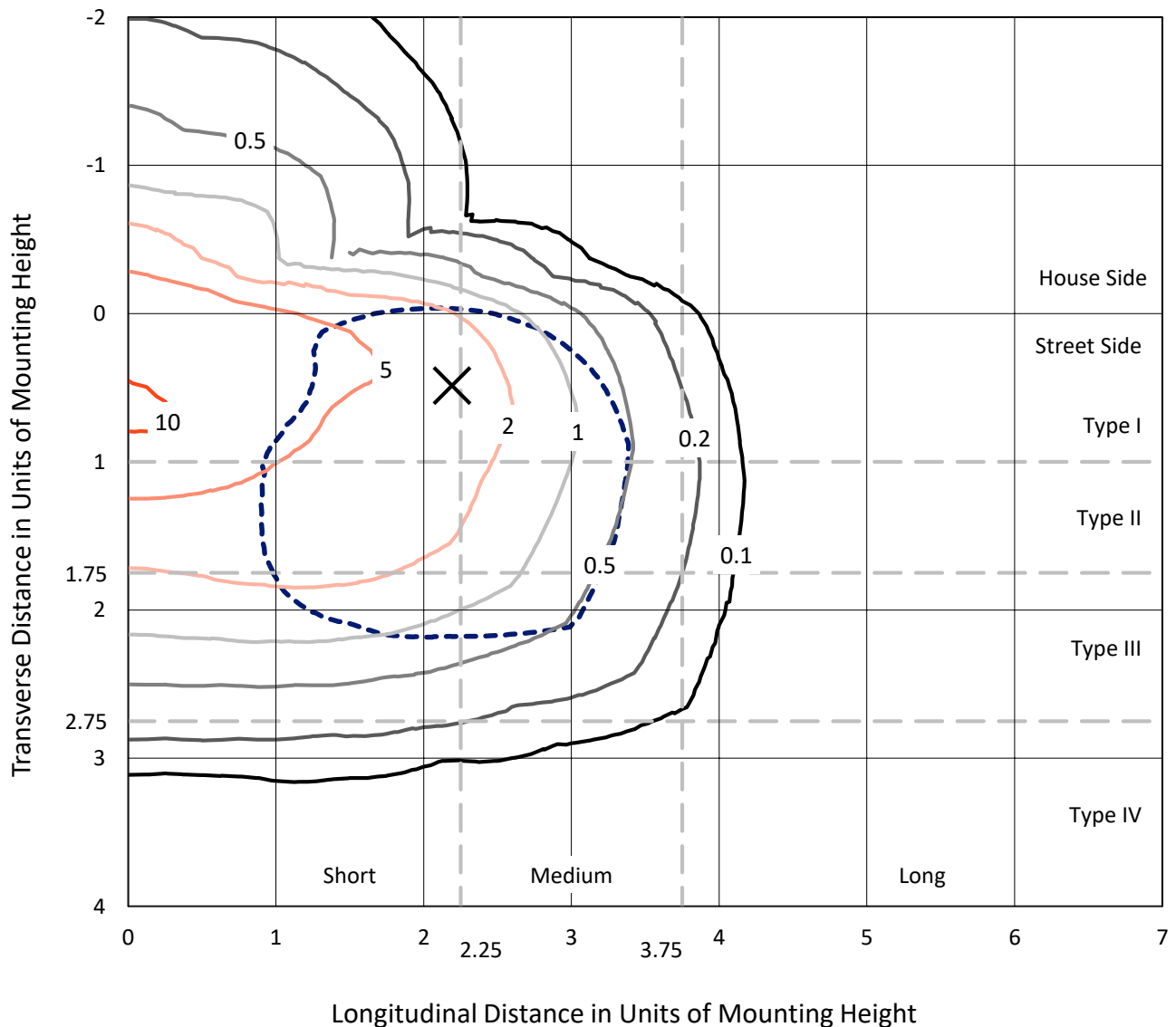
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

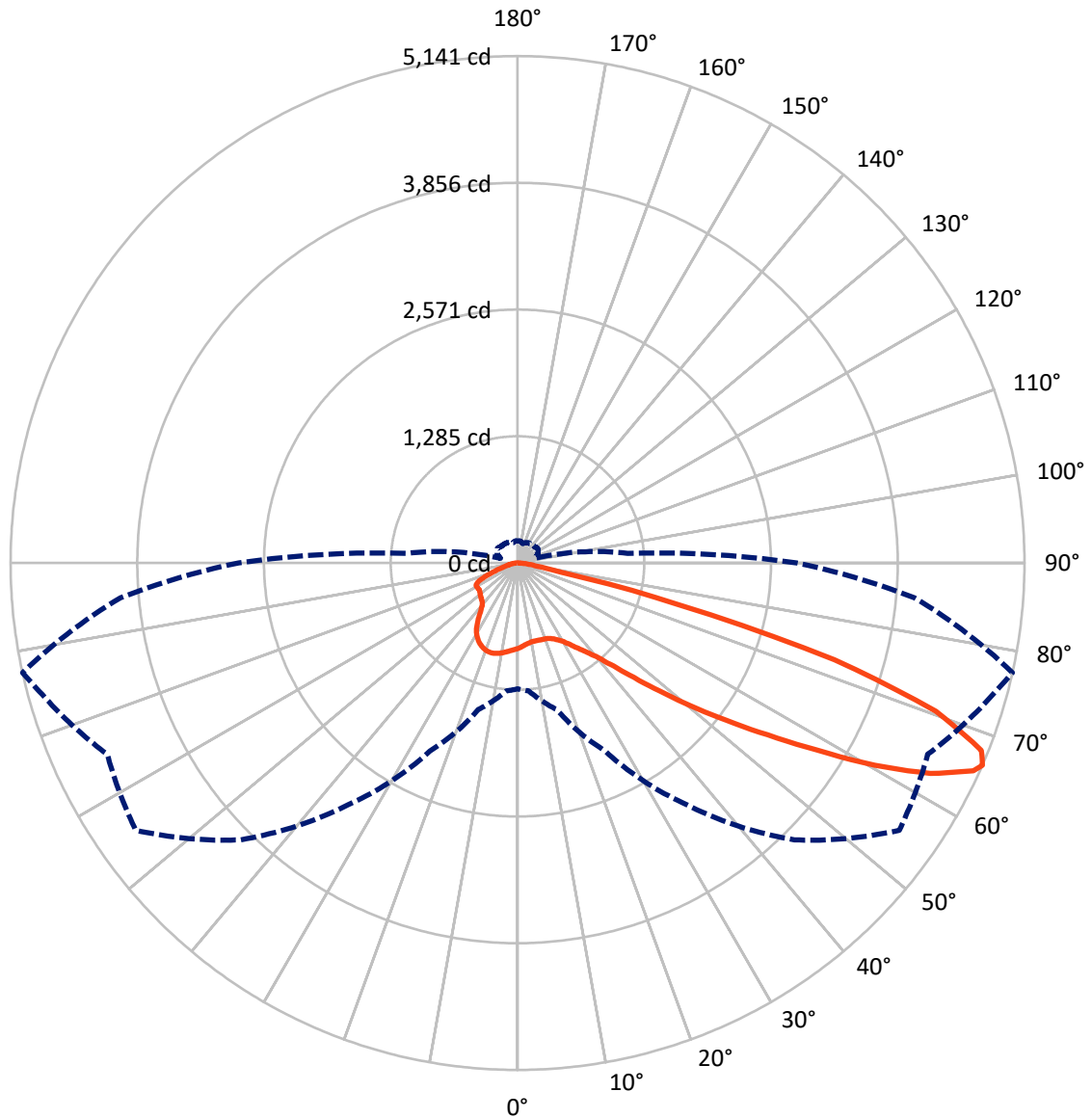


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - Full Cutoff

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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	1037.6	0.0	1037.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	5035.8	0.0	5035.8
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	6073.4	0.0	6073.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	1.3
10°-20°	218.1	3.6
20°-30°	372.3	6.1
30°-40°	596.0	9.8
40°-50°	920.7	15.2
50°-60°	1305.9	21.5
60°-70°	1747.0	28.8
70°-80°	758.7	12.5
80°-90°	77.4	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°	6073.4	100.0
0°-180°	6073.4	100.0



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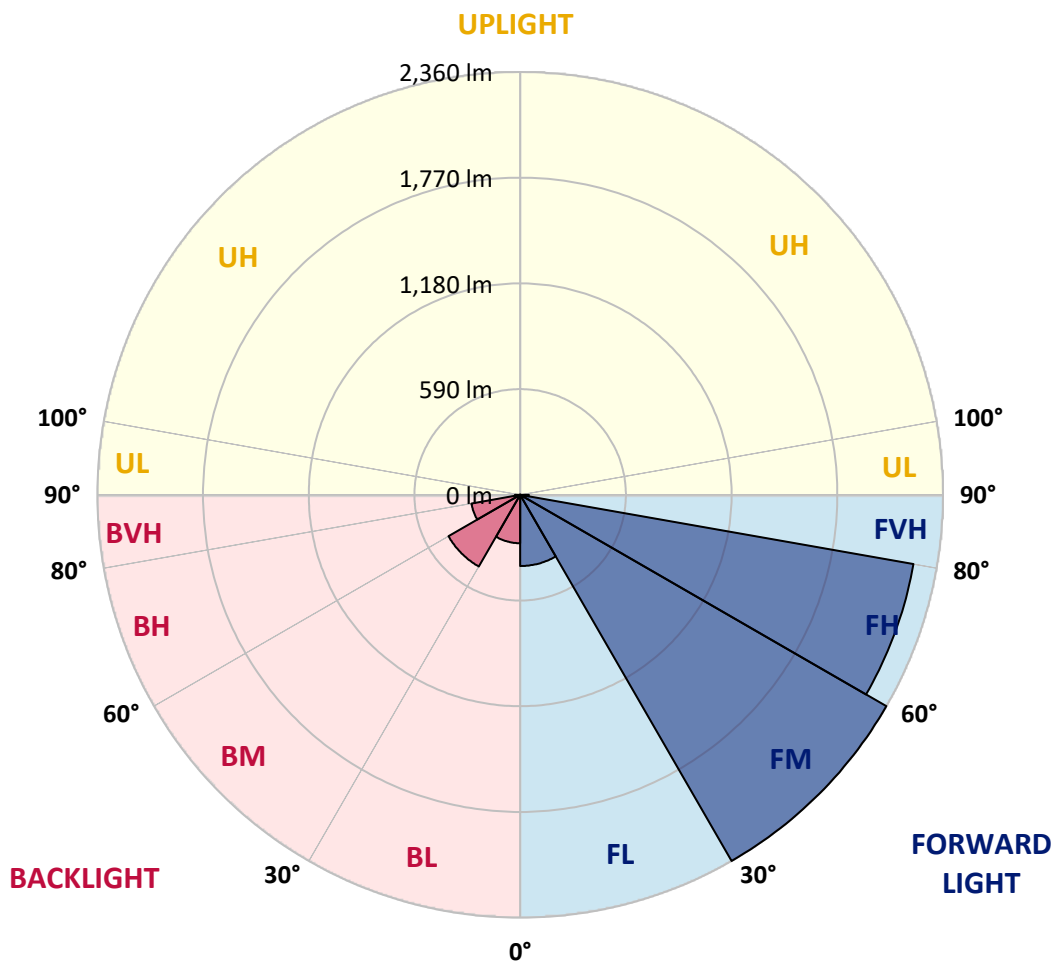
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.5	6.5			
FM	(30°-60°)	2360.4	38.9			
FH	(60°-80°)	2229.3	36.7			G2/5000
FVH	(80°-90°)	48.5	0.8			G1/100
BL	(0°-30°)	270.2	4.4	B1/500		
BM	(30°-60°)	462.2	7.6	B1/1000		
BH	(60°-80°)	276.3	4.5	B1/500		G1/500
BVH	(80°-90°)	28.8	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°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	765.6	770.7	775.1	779.1	787.2	800.3	815.5	827.9	845.7	849.2	858.6
5°	695.3	695.3	698.7	704.8	715.7	735.5	756.2	783.7	822.5	831.7	856.9
7.5°	661.2	661.4	663.5	668.6	678.1	696.1	718.9	751.3	803.9	819.1	862.1
10°	673.8	670.9	666.6	664.0	665.5	676.1	697.7	733.7	792.3	811.8	873.5
12.5°	744.3	738.9	724.0	704.2	685.2	677.5	690.2	725.4	787.5	810.1	888.8
15°	859.8	857.4	829.7	788.6	742.7	704.2	695.6	722.2	788.1	812.1	906.7
17.5°	1004.3	1001.3	964.5	904.9	829.9	755.0	714.8	724.9	790.0	815.5	924.4
20°	1150.5	1140.7	1101.1	1029.9	933.8	824.1	746.8	731.5	792.7	819.3	942.7
22.5°	1259.6	1251.5	1215.9	1146.7	1035.9	904.2	789.4	743.0	800.8	830.3	965.4
25°	1355.4	1355.9	1320.6	1253.8	1139.3	989.2	844.5	773.7	822.2	852.6	996.3
27.5°	1473.8	1466.9	1434.0	1367.7	1241.4	1075.0	911.2	815.8	853.7	884.4	1037.2
30°	1615.6	1610.8	1572.6	1497.4	1354.7	1167.1	987.1	864.9	894.4	926.3	1090.5
32.5°	1782.3	1780.0	1740.5	1643.8	1485.6	1275.6	1076.3	929.7	955.3	988.3	1167.1
35°	1978.1	1978.3	1931.5	1815.4	1628.8	1401.8	1177.7	1013.3	1029.4	1063.9	1258.3
37.5°	2098.6	2113.3	2095.7	1977.2	1791.0	1543.0	1309.1	1124.0	1113.7	1148.5	1356.3
40°	2124.4	2142.2	2197.6	2137.2	1972.3	1698.5	1425.6	1230.5	1217.7	1260.1	1482.2
42.5°	2088.3	2113.0	2230.0	2272.5	2164.8	1890.3	1582.4	1388.6	1372.3	1429.4	1638.9
45°	2066.7	2085.1	2220.5	2342.8	2331.9	2107.0	1781.8	1587.2	1581.1	1656.0	1819.6
47.5°	2029.5	2046.1	2176.4	2359.2	2430.1	2305.5	2021.4	1829.9	1841.7	1939.9	2023.7
50°	2049.6	2056.4	2126.9	2317.5	2458.4	2450.9	2289.2	2111.1	2151.4	2273.9	2254.7
52.5°	2046.7	2064.5	2121.3	2249.3	2462.2	2540.8	2552.9	2424.9	2509.5	2650.1	2510.9
55°	1654.7	1687.3	2053.9	2232.0	2475.4	2628.9	2787.6	2755.5	2913.3	3077.1	2800.1
57.5°	1579.9	1600.7	1803.8	2268.2	2545.3	2797.1	3048.7	3119.4	3383.3	3573.5	3152.6
60°	1565.3	1591.0	1801.3	2312.3	2687.4	3071.1	3435.8	3559.9	3955.2	4163.6	3561.2
62.5°	1519.8	1547.3	1784.4	2306.7	2889.2	3450.2	3931.4	4028.1	4497.6	4700.2	3903.0
65°	1375.1	1400.9	1646.4	2214.0	3025.2	3854.7	4517.9	4457.4	4925.8	5078.2	4073.5
66°	1276.1	1301.4	1537.5	2104.9	2993.6	3969.6	4725.8	4590.2	5021.6	5141.0	4040.1
67.5°	1095.0	1114.8	1326.3	1860.7	2825.8	4001.7	4900.6	4690.2	5031.6	5073.8	3850.0
70°	691.9	697.7	862.1	1284.4	2139.0	3470.5	4634.4	4442.2	4616.7	4502.5	3227.5
72.5°	300.2	298.1	413.8	653.4	1210.9	2328.8	3748.9	3665.4	3621.4	3361.0	2259.2
75°	167.1	169.3	215.0	303.3	492.1	1143.8	2452.5	2346.8	1981.5	1690.8	1024.4
77.5°	133.9	137.3	178.3	215.2	221.0	398.8	1147.6	933.8	562.2	451.0	284.7
80°	105.9	111.6	155.5	167.7	148.8	164.4	370.8	296.4	222.4	204.1	147.5
82.5°	83.8	87.9	133.5	126.8	104.2	110.9	177.7	173.1	144.6	131.7	85.2
85°	60.2	67.7	109.7	95.6	68.4	74.6	117.9	113.0	83.0	67.7	37.5
87.5°	24.7	32.1	77.4	63.4	38.2	34.8	58.7	55.3	39.3	28.7	18.7
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°	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4	865.4
2.5°	864.6	871.5	880.3	885.9	888.8	890.7	894.0	893.6	894.4	894.7	895.9
5°	870.4	881.9	894.7	898.2	898.2	895.0	891.8	886.7	884.7	884.1	884.7
7.5°	885.3	897.9	909.2	905.1	896.5	883.8	867.6	853.1	845.5	842.8	842.3
10°	904.2	919.4	924.0	908.8	883.6	853.1	820.7	797.2	783.7	780.0	778.8
12.5°	927.2	941.6	935.2	903.1	856.4	807.2	762.5	724.9	696.7	687.8	687.4
15°	952.5	963.6	941.6	885.3	815.5	743.3	663.5	598.6	563.5	552.4	551.6
17.5°	976.0	981.7	937.8	854.3	755.6	638.4	532.6	482.7	470.6	473.4	474.0
20°	996.1	996.1	925.2	809.8	661.2	500.4	433.6	432.8	441.3	450.1	451.7
22.5°	1018.1	1004.9	903.1	747.0	527.5	409.4	399.7	407.8	417.5	427.1	428.4
25°	1045.4	1012.1	872.3	651.7	414.7	371.9	375.6	382.3	387.1	393.2	393.9
27.5°	1075.8	1021.4	831.9	520.6	359.9	348.4	351.2	353.6	352.9	355.3	355.9
30°	1112.3	1032.0	776.6	406.9	337.1	328.3	323.1	321.1	321.1	324.8	326.3
32.5°	1161.1	1047.8	697.1	348.6	326.3	314.0	297.2	289.9	292.7	305.3	308.2
35°	1214.7	1064.6	589.4	328.9	324.0	307.3	281.4	267.8	268.1	279.8	283.5
37.5°	1273.3	1086.2	471.5	325.1	329.1	307.6	273.2	254.2	246.6	246.6	247.9
40°	1348.1	1108.2	381.7	327.7	340.1	311.1	269.0	243.6	221.8	222.4	223.6
42.5°	1445.7	1127.3	333.5	333.2	353.3	315.7	268.7	229.5	210.7	223.6	235.4
45°	1554.2	1136.6	312.3	338.0	363.9	318.4	264.0	227.4	212.1	250.4	272.9
47.5°	1679.0	1131.2	300.5	339.7	366.5	318.4	258.8	232.8	222.2	290.2	316.3
50°	1816.0	1115.4	289.0	336.3	365.6	318.0	263.7	238.2	225.8	297.0	315.0
52.5°	1976.9	1102.2	276.9	328.9	359.6	314.8	269.4	235.9	214.1	270.0	282.6
55°	2160.6	1106.0	263.5	318.2	350.1	308.7	267.4	226.7	201.7	238.0	245.6
57.5°	2395.3	1150.5	247.4	304.7	337.1	298.7	260.2	222.4	197.9	215.9	220.4
60°	2657.2	1228.0	227.4	291.3	321.1	282.6	254.8	224.3	199.8	214.1	216.4
62.5°	2849.6	1273.0	210.1	271.5	299.3	264.9	247.9	227.0	204.4	220.2	219.5
65°	2901.9	1199.0	188.6	242.5	269.8	246.2	239.3	229.8	206.3	224.9	222.4
66°	2828.7	1119.2	179.0	229.0	254.8	237.1	235.0	229.5	205.4	225.6	221.3
67.5°	2651.0	955.5	162.8	209.1	231.0	223.3	228.1	227.0	203.1	224.9	218.9
70°	2162.0	652.0	139.1	174.2	192.2	196.5	215.0	217.7	195.7	215.0	201.7
72.5°	1510.6	397.2	123.1	135.1	155.5	167.7	196.9	205.3	185.7	187.7	175.1
75°	730.1	210.9	111.6	104.7	120.8	140.0	175.1	187.9	169.9	156.9	152.4
77.5°	227.6	128.8	94.7	84.4	94.7	113.0	146.3	164.7	151.3	131.4	129.7
80°	122.3	94.7	72.9	67.7	74.9	88.7	115.1	137.5	130.0	117.9	105.3
82.5°	80.7	61.4	54.0	52.6	57.1	67.7	85.5	113.9	113.9	101.0	73.4
85°	41.6	37.5	37.0	37.0	39.9	45.0	58.3	87.9	93.6	53.4	44.1
87.5°	20.8	21.5	20.1	20.9	22.4	22.1	27.8	44.1	52.8	32.3	26.9
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)