

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: P192279

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192279  
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-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5148 lumens  
Efficiency: N/A  
Efficacy: 117.0 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): 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

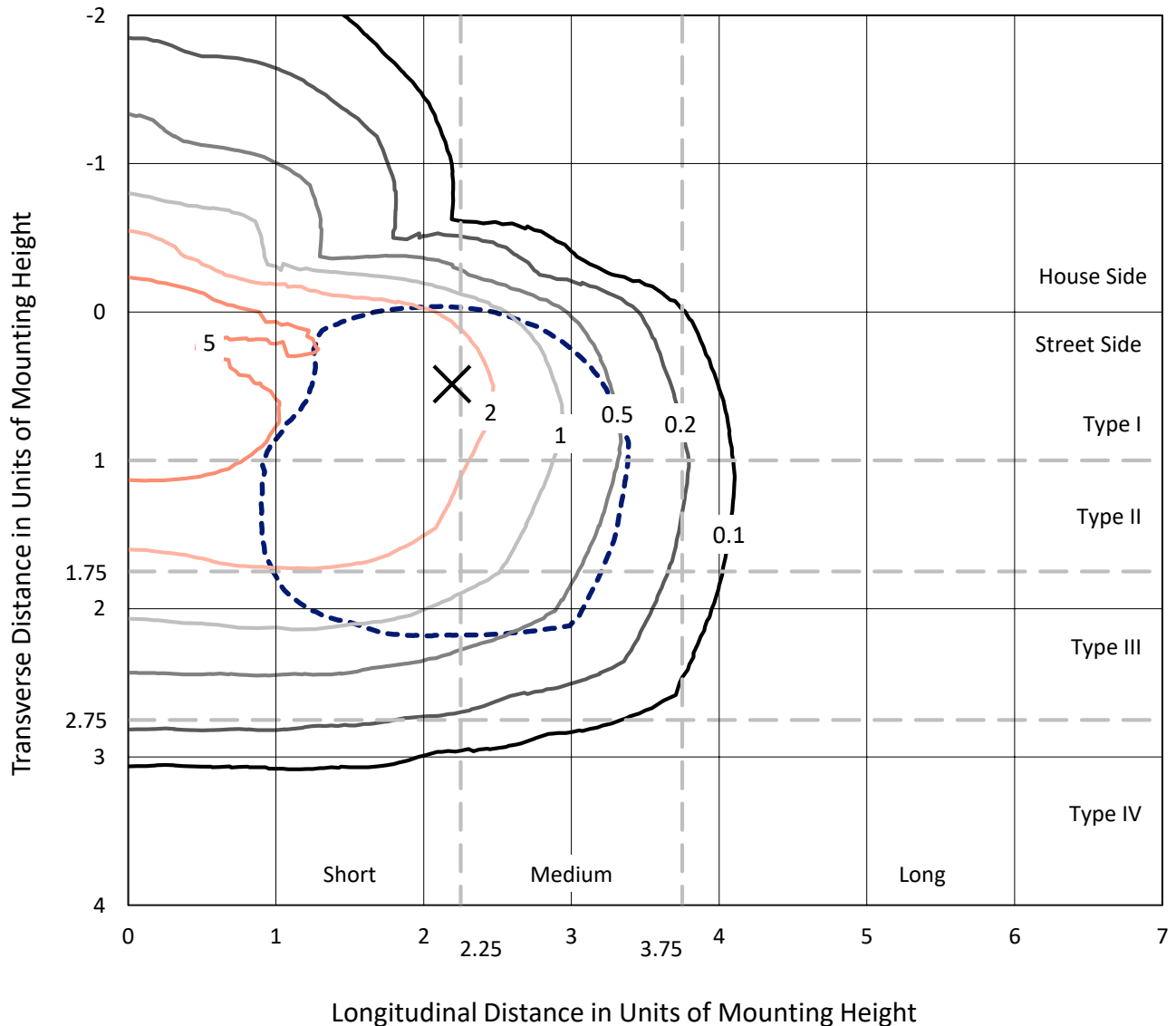


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

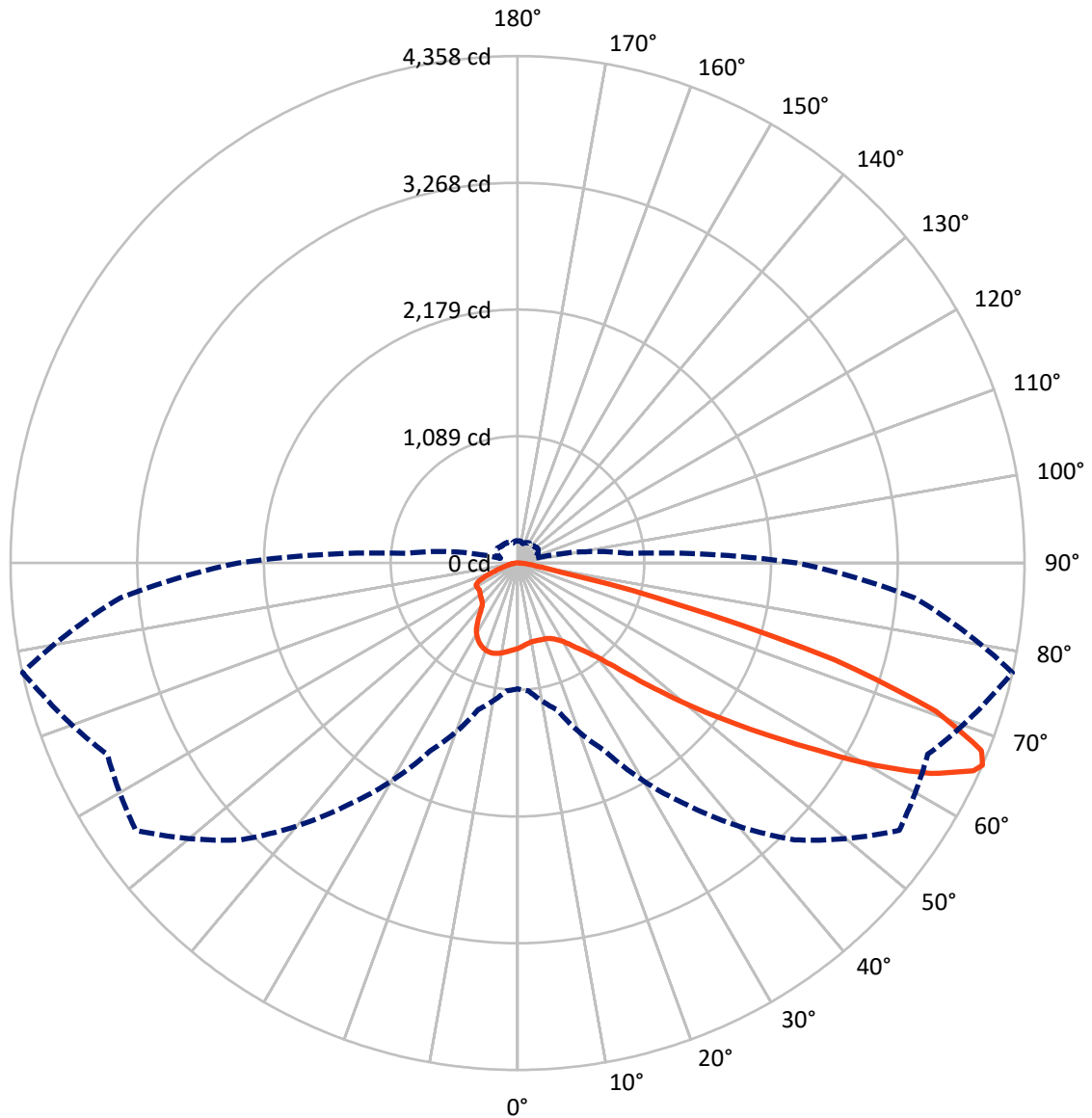


Based on 10 foot mounting height. Maximum calculated value = 9 fc  
 Type III - Short - Full Cutoff

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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	879.5	0.0	879.5
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	4268.5	0.0	4268.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	5148.0	0.0	5148.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	1.3
10°-20°	184.9	3.6
20°-30°	315.6	6.1
30°-40°	505.2	9.8
40°-50°	780.4	15.2
50°-60°	1106.9	21.5
60°-70°	1480.8	28.8
70°-80°	643.1	12.5
80°-90°	65.6	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°	5148.0	100.0
0°-180°	5148.0	100.0



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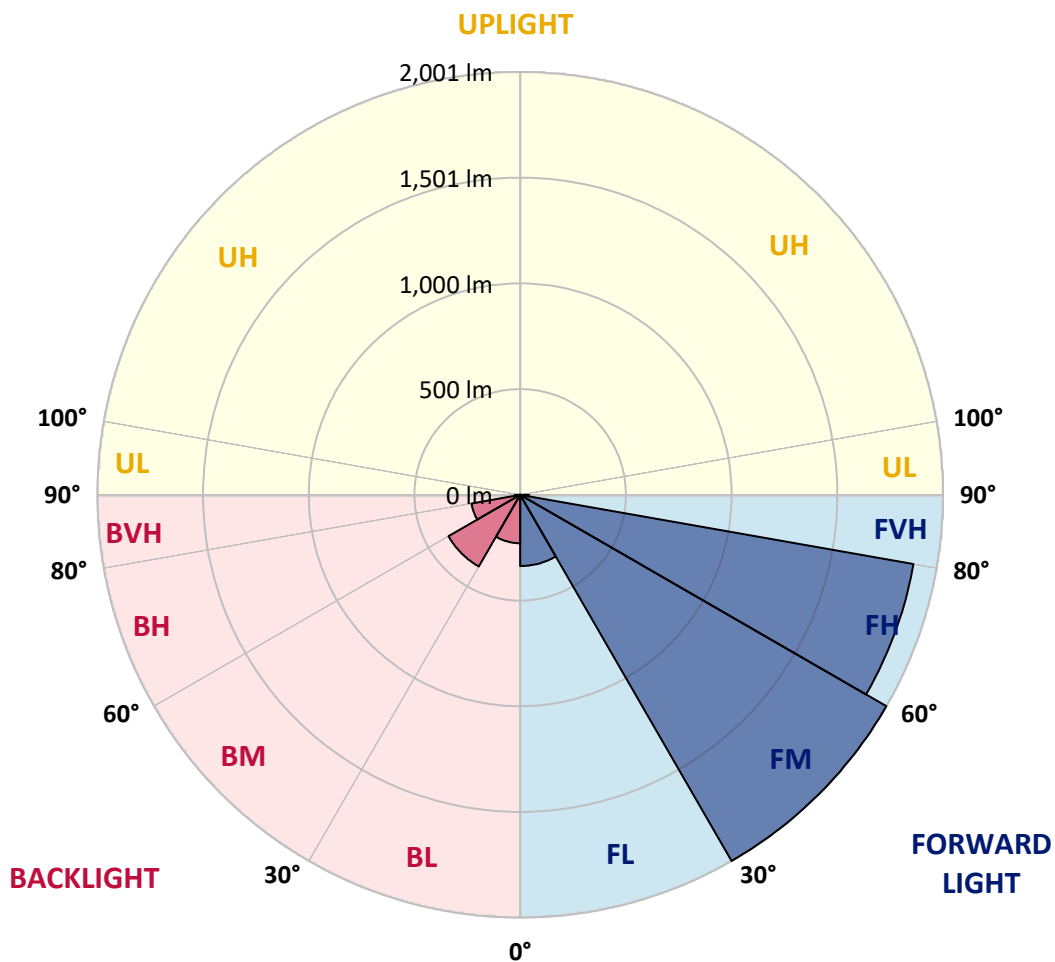
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	337.0	6.5			
FM	(30°-60°)	2000.8	38.9			
FH	(60°-80°)	1889.6	36.7			G2/5000
FVH	(80°-90°)	41.1	0.8			G1/100
BL	(0°-30°)	229.1	4.4	B1/500		
BM	(30°-60°)	391.8	7.6	B1/1000		
BH	(60°-80°)	234.2	4.5	B1/500		G1/500
BVH	(80°-90°)	24.5	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°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	649.0	653.3	657.0	660.4	667.2	678.4	691.3	701.7	716.8	719.7	727.8
5°	589.4	589.4	592.3	597.4	606.6	623.4	640.9	664.3	697.1	704.9	726.3
7.5°	560.4	560.7	562.4	566.8	574.8	590.1	609.3	636.8	681.3	694.2	730.7
10°	571.1	568.7	565.0	562.9	564.1	573.1	591.3	622.0	671.6	688.1	740.4
12.5°	631.0	626.3	613.7	596.9	580.9	574.3	585.0	614.9	667.5	686.7	753.3
15°	728.7	726.8	703.2	668.4	629.5	596.9	589.6	612.2	667.9	688.4	768.6
17.5°	851.3	848.7	817.5	766.9	703.5	640.0	605.9	614.4	669.6	691.3	783.5
20°	975.2	966.9	933.3	873.0	791.5	698.6	632.9	620.0	671.8	694.5	799.0
22.5°	1067.6	1060.8	1030.6	972.0	878.1	766.5	669.2	629.8	678.9	703.7	818.3
25°	1148.8	1149.3	1119.4	1062.7	965.7	838.5	715.9	655.8	696.9	722.7	844.5
27.5°	1249.3	1243.4	1215.5	1159.3	1052.3	911.2	772.3	691.5	723.6	749.7	879.1
30°	1369.4	1365.3	1333.0	1269.2	1148.3	989.3	836.7	733.1	758.2	785.2	924.3
32.5°	1510.8	1508.8	1475.3	1393.3	1259.3	1081.2	912.4	788.1	809.7	837.7	989.3
35°	1676.7	1676.9	1637.3	1538.7	1380.6	1188.2	998.3	858.9	872.5	901.7	1066.6
37.5°	1778.8	1791.2	1776.4	1675.9	1518.1	1307.9	1109.7	952.8	944.0	973.4	1149.6
40°	1800.7	1815.8	1862.7	1811.7	1671.8	1439.7	1208.4	1043.0	1032.1	1068.1	1256.3
42.5°	1770.1	1791.0	1890.2	1926.2	1835.0	1602.2	1341.2	1177.0	1163.2	1211.6	1389.1
45°	1751.8	1767.4	1882.2	1985.8	1976.6	1785.9	1510.3	1345.4	1340.3	1403.7	1542.4
47.5°	1720.2	1734.3	1844.7	1999.7	2059.8	1954.2	1713.4	1551.1	1561.1	1644.3	1715.3
50°	1737.2	1743.1	1802.9	1964.4	2083.8	2077.5	1940.3	1789.5	1823.6	1927.4	1911.1
52.5°	1734.8	1749.9	1798.0	1906.5	2087.0	2153.7	2163.9	2055.4	2127.1	2246.3	2128.4
55°	1402.5	1430.3	1740.9	1891.9	2098.2	2228.3	2362.8	2335.6	2469.4	2608.3	2373.5
57.5°	1339.3	1356.8	1529.0	1922.6	2157.5	2370.9	2584.2	2644.0	2867.8	3029.1	2672.2
60°	1326.9	1348.5	1526.8	1960.0	2278.0	2603.2	2912.3	3017.4	3352.6	3529.2	3018.6
62.5°	1288.2	1311.6	1512.5	1955.2	2448.9	2924.5	3332.4	3414.4	3812.3	3984.0	3308.3
65°	1165.6	1187.5	1395.5	1876.6	2564.2	3267.5	3829.6	3778.3	4175.2	4304.4	3452.8
66°	1081.7	1103.1	1303.3	1784.2	2537.5	3364.8	4005.7	3890.9	4256.5	4357.7	3424.6
67.5°	928.2	945.0	1124.3	1577.2	2395.2	3392.0	4153.8	3975.5	4265.0	4300.7	3263.3
70°	586.5	591.3	730.7	1088.7	1813.1	2941.8	3928.3	3765.4	3913.3	3816.4	2735.7
72.5°	254.4	252.7	350.8	553.9	1026.5	1973.9	3177.7	3106.9	3069.7	2848.8	1915.0
75°	141.6	143.5	182.2	257.1	417.2	969.6	2078.7	1989.2	1679.6	1433.2	868.4
77.5°	113.6	116.3	151.1	182.4	187.3	338.1	972.7	791.5	476.5	382.4	241.3
80°	89.8	94.6	131.8	142.1	126.2	139.4	314.3	251.3	188.5	172.9	125.0
82.5°	71.0	74.4	113.1	107.5	88.3	93.9	150.6	146.7	122.6	111.6	72.2
85°	51.1	57.4	92.9	81.0	57.9	63.2	100.0	95.8	70.3	57.4	31.9
87.5°	20.9	27.2	65.7	53.8	32.4	29.4	49.9	46.9	33.3	24.3	15.8
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°	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6	733.6
2.5°	732.9	738.7	746.3	750.9	753.3	755.0	757.7	757.5	758.2	758.4	759.4
5°	737.7	747.5	758.4	761.3	761.3	758.7	756.0	751.6	749.9	749.4	749.9
7.5°	750.4	761.1	770.6	767.2	759.9	749.2	735.3	723.2	716.6	714.4	713.9
10°	766.5	779.3	783.2	770.3	748.9	723.2	695.7	675.7	664.3	661.1	660.2
12.5°	785.9	798.1	792.7	765.5	725.8	684.2	646.3	614.4	590.6	583.0	582.6
15°	807.3	816.8	798.1	750.4	691.3	630.0	562.4	507.4	477.7	468.2	467.5
17.5°	827.3	832.1	794.9	724.1	640.5	541.2	451.5	409.1	398.9	401.3	401.8
20°	844.3	844.3	784.2	686.4	560.4	424.2	367.5	366.8	374.1	381.4	382.9
22.5°	863.0	851.8	765.5	633.2	447.1	347.1	338.8	345.6	353.9	361.9	363.2
25°	886.1	857.9	739.5	552.4	351.5	315.2	318.4	324.0	328.1	333.2	334.0
27.5°	911.9	865.7	705.2	441.2	305.0	295.3	297.7	299.7	299.2	301.1	301.6
30°	942.8	874.7	658.2	344.9	285.8	278.3	273.9	272.2	272.2	275.3	276.6
32.5°	984.2	888.1	590.8	295.5	276.6	266.1	252.0	245.7	248.1	258.8	261.2
35°	1029.6	902.4	499.6	278.8	274.6	260.5	238.6	226.9	227.2	237.2	240.3
37.5°	1079.3	920.7	399.6	275.6	279.0	260.8	231.6	215.5	208.9	208.9	210.2
40°	1142.7	939.4	323.5	277.8	288.2	263.7	227.9	206.5	188.0	188.5	189.5
42.5°	1225.4	955.5	282.6	282.4	299.4	267.6	227.7	194.6	178.5	189.5	199.5
45°	1317.4	963.5	264.6	286.5	308.4	270.0	223.8	192.6	179.8	212.3	231.3
47.5°	1423.2	958.9	254.7	288.0	310.6	270.0	219.4	197.3	188.3	245.9	268.1
50°	1539.2	945.5	244.9	285.1	309.9	269.5	223.5	201.9	191.4	251.8	267.1
52.5°	1675.7	934.3	234.7	278.8	304.8	266.8	228.4	199.9	181.5	228.9	239.6
55°	1831.4	937.5	223.3	269.8	296.8	261.7	226.7	192.2	171.0	201.6	208.2
57.5°	2030.3	975.2	209.7	258.3	285.8	253.2	220.6	188.5	167.8	182.9	186.8
60°	2252.4	1040.8	192.6	246.9	272.2	239.6	216.0	190.2	169.3	181.5	183.4
62.5°	2415.4	1079.0	178.1	230.1	253.7	224.5	210.2	192.4	173.2	186.6	186.1
65°	2459.7	1016.3	159.8	205.5	228.6	208.7	202.9	194.8	174.9	190.7	188.5
66°	2397.6	948.6	151.8	194.1	216.0	200.9	199.2	194.6	174.2	191.2	187.5
67.5°	2247.1	810.0	137.9	177.3	195.8	189.2	193.4	192.4	172.2	190.7	185.6
70°	1832.6	552.6	118.0	147.6	163.0	166.6	182.2	184.6	165.9	182.2	171.0
72.5°	1280.4	336.6	104.4	114.6	131.8	142.1	166.9	173.9	157.4	159.1	148.4
75°	618.8	178.8	94.6	88.8	102.4	118.7	148.4	159.3	144.0	133.1	129.2
77.5°	192.9	109.2	80.3	71.5	80.3	95.8	124.1	139.6	128.2	111.4	109.9
80°	103.6	80.3	61.8	57.4	63.5	75.2	97.5	116.5	110.2	100.0	89.3
82.5°	68.4	52.1	45.7	44.5	48.4	57.4	72.5	96.6	96.6	85.6	62.3
85°	35.3	31.9	31.4	31.4	33.8	38.2	49.4	74.4	79.3	45.2	37.5
87.5°	17.5	18.2	17.0	17.8	19.0	18.7	23.6	37.5	44.8	27.5	22.9
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)