

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: P191479

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191479  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 5266.2 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

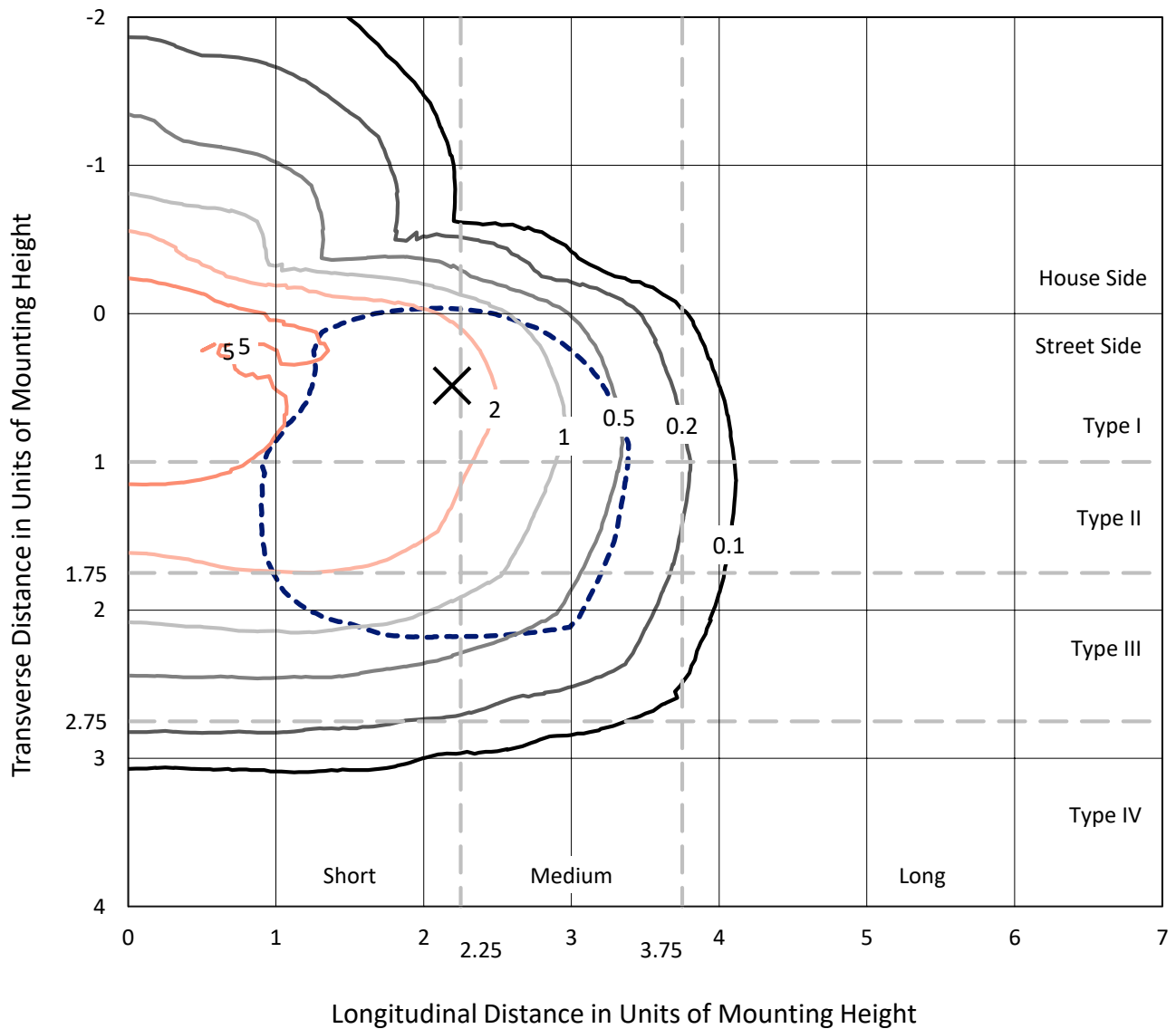


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

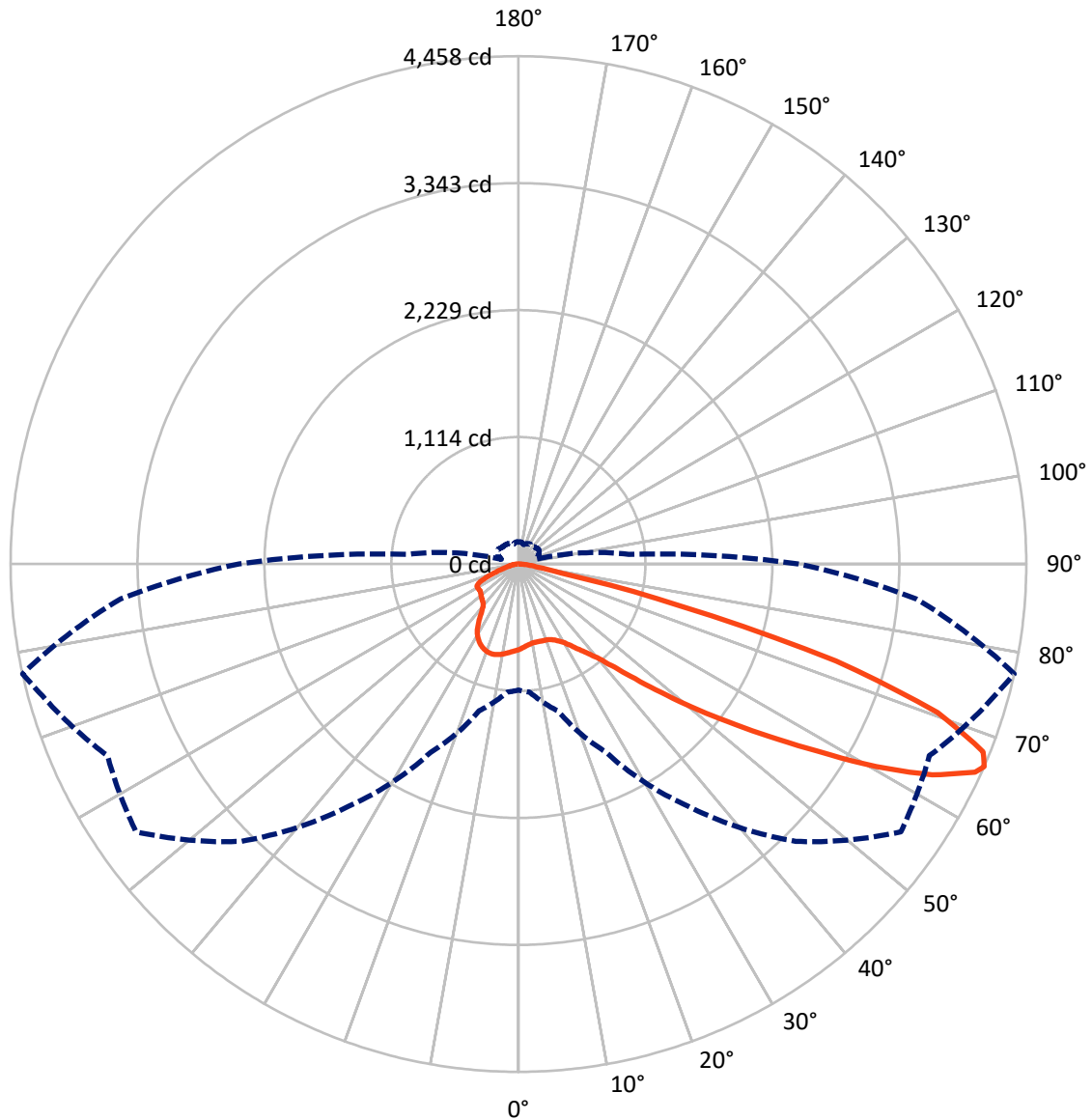


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - Full Cutoff

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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	899.7	0.0	899.7
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	4366.5	0.0	4366.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	5266.2	0.0	5266.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	1.3
10°-20°	189.1	3.6
20°-30°	322.8	6.1
30°-40°	516.8	9.8
40°-50°	798.4	15.2
50°-60°	1132.3	21.5
60°-70°	1514.8	28.8
70°-80°	657.8	12.5
80°-90°	67.1	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°	5266.2	100.0
0°-180°	5266.2	100.0



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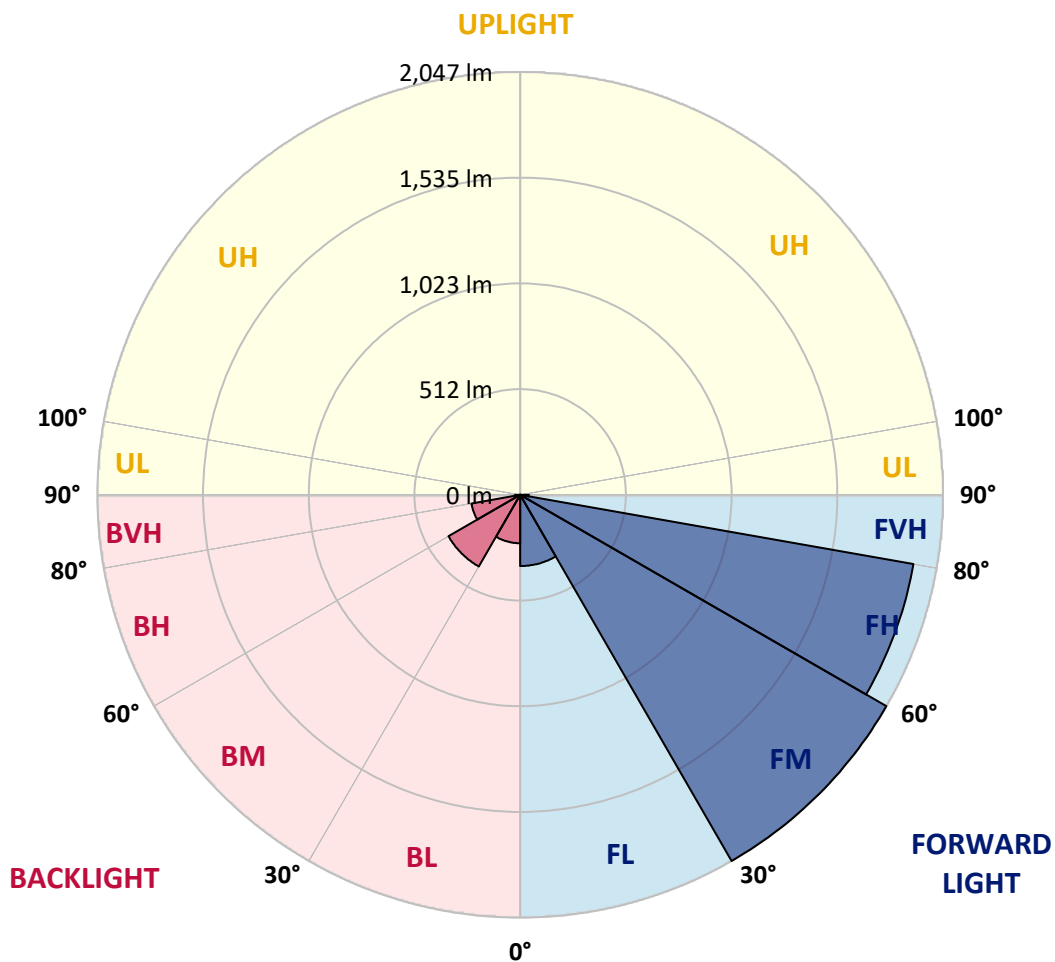
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	344.7	6.5			
FM	(30°-60°)	2046.7	38.9			
FH	(60°-80°)	1933.0	36.7			G2/5000
FVH	(80°-90°)	42.1	0.8			G1/100
BL	(0°-30°)	234.3	4.4	B1/500		
BM	(30°-60°)	400.8	7.6	B1/1000		
BH	(60°-80°)	239.6	4.5	B1/500		G1/500
BVH	(80°-90°)	25.0	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°	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4
2.5°	663.9	668.3	672.1	675.6	682.5	694.0	707.2	717.8	733.3	736.2	744.5
5°	602.9	602.9	605.9	611.1	620.5	637.7	655.6	679.5	713.1	721.1	743.0
7.5°	573.3	573.6	575.3	579.8	588.0	603.6	623.3	651.4	696.9	710.1	747.5
10°	584.2	581.8	578.0	575.8	577.0	586.3	604.9	636.3	687.0	703.9	757.4
12.5°	645.5	640.7	627.8	610.6	594.2	587.5	598.4	629.0	682.8	702.5	770.6
15°	745.4	743.5	719.3	683.7	643.9	610.6	603.1	626.3	683.2	704.2	786.2
17.5°	870.8	868.2	836.3	784.5	719.6	654.7	619.8	628.5	685.0	707.2	801.5
20°	997.6	989.1	954.7	893.0	809.7	714.6	647.4	634.2	687.2	710.4	817.3
22.5°	1092.1	1085.1	1054.3	994.3	898.3	784.1	684.6	644.3	694.5	719.9	837.1
25°	1175.2	1175.7	1145.1	1087.1	987.9	857.7	732.3	670.9	712.9	739.3	863.9
27.5°	1278.0	1271.9	1243.4	1185.9	1076.5	932.1	790.0	707.4	740.2	766.9	899.3
30°	1400.8	1396.6	1363.6	1298.3	1174.7	1012.0	855.9	749.9	775.6	803.2	945.5
32.5°	1545.5	1543.4	1509.2	1425.3	1288.2	1106.0	933.3	806.2	828.3	856.9	1012.0
35°	1715.2	1715.4	1674.9	1574.0	1412.3	1215.5	1021.2	878.6	892.5	922.4	1091.1
37.5°	1819.6	1832.3	1817.2	1714.4	1552.9	1337.9	1135.2	974.7	965.7	995.7	1176.0
40°	1842.0	1857.5	1905.5	1853.3	1710.2	1472.7	1236.1	1066.9	1055.8	1092.6	1285.1
42.5°	1810.7	1832.1	1933.6	1970.4	1877.1	1639.0	1372.0	1204.0	1189.9	1239.4	1421.0
45°	1792.0	1808.0	1925.4	2031.4	2022.0	1826.9	1545.0	1376.3	1371.1	1435.9	1577.8
47.5°	1759.7	1774.1	1887.0	2045.6	2107.1	1999.1	1752.7	1586.7	1596.9	1682.0	1754.7
50°	1777.1	1783.1	1844.3	2009.5	2131.6	2125.2	1984.8	1830.6	1865.5	1971.6	1955.0
52.5°	1774.6	1790.1	1839.3	1950.3	2134.9	2203.1	2213.6	2102.6	2175.9	2297.9	2177.2
55°	1434.7	1463.1	1780.9	1935.3	2146.4	2279.4	2417.0	2389.2	2526.1	2668.2	2428.0
57.5°	1370.0	1387.9	1564.1	1966.7	2207.0	2425.3	2643.5	2704.7	2933.6	3098.6	2733.5
60°	1357.4	1379.4	1561.8	2005.0	2330.3	2662.9	2979.1	3086.7	3429.5	3610.2	3087.9
62.5°	1317.8	1341.7	1547.2	2000.1	2505.1	2991.6	3408.9	3492.8	3899.8	4075.4	3384.2
65°	1192.4	1214.8	1427.5	1919.7	2623.1	3342.5	3917.5	3865.0	4271.0	4403.2	3532.0
66°	1106.5	1128.4	1333.2	1825.1	2595.7	3442.0	4097.6	3980.2	4354.2	4457.7	3503.2
67.5°	949.5	966.7	1150.1	1613.4	2450.2	3469.8	4249.1	4066.7	4362.9	4399.4	3338.2
70°	600.0	604.9	747.5	1113.7	1854.7	3009.3	4018.5	3851.8	4003.1	3904.0	2798.5
72.5°	260.2	258.5	358.9	566.6	1050.1	2019.2	3250.6	3178.2	3140.2	2914.2	1959.0
75°	144.8	146.8	186.4	263.0	426.8	991.9	2126.4	2034.9	1718.1	1466.1	888.3
77.5°	116.2	119.0	154.6	186.6	191.6	345.9	995.0	809.7	487.4	391.2	246.8
80°	91.9	96.8	134.8	145.4	129.1	142.6	321.5	257.1	192.8	176.9	127.9
82.5°	72.6	76.1	115.7	110.0	90.3	96.1	154.1	150.1	125.4	114.2	73.9
85°	52.3	58.7	95.0	82.9	59.2	64.7	102.3	98.0	71.9	58.7	32.6
87.5°	21.4	27.8	67.2	55.0	33.1	30.1	51.0	48.0	34.1	24.9	16.2
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°	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4	750.4
2.5°	749.7	755.7	763.4	768.1	770.6	772.3	775.1	774.9	775.6	775.8	776.8
5°	754.6	764.7	775.8	778.8	778.8	776.1	773.4	768.8	767.1	766.6	767.1
7.5°	767.6	778.6	788.3	784.8	777.3	766.4	752.2	739.8	733.0	730.8	730.3
10°	784.1	797.2	801.2	788.0	766.1	739.8	711.7	691.2	679.5	676.3	675.4
12.5°	803.9	816.4	810.9	783.1	742.5	699.9	661.1	628.5	604.2	596.4	596.0
15°	825.8	835.5	816.4	767.6	707.2	644.5	575.3	519.0	488.7	478.9	478.2
17.5°	846.3	851.2	813.1	740.7	655.2	553.6	461.9	418.5	408.1	410.5	411.0
20°	863.7	863.7	802.2	702.2	573.3	433.9	375.9	375.2	382.7	390.2	391.7
22.5°	882.8	871.3	783.1	647.7	457.4	355.1	346.6	353.5	362.0	370.2	371.5
25°	906.4	877.6	756.5	565.1	359.6	322.4	325.7	331.4	335.6	340.8	341.7
27.5°	932.8	885.6	721.4	451.3	312.0	302.1	304.5	306.6	306.1	308.0	308.5
30°	964.4	894.8	673.3	352.8	292.4	284.7	280.2	278.4	278.4	281.6	282.9
32.5°	1006.8	908.5	604.4	302.3	282.9	272.2	257.8	251.3	253.8	264.7	267.2
35°	1053.2	923.1	511.1	285.2	280.9	266.5	244.1	232.1	232.4	242.6	245.8
37.5°	1104.1	941.8	408.8	281.9	285.4	266.8	236.9	220.4	213.7	213.7	215.0
40°	1168.9	961.0	330.9	284.2	294.8	269.8	233.1	211.2	192.3	192.8	193.8
42.5°	1253.5	977.4	289.1	288.9	306.3	273.7	232.9	199.1	182.6	193.8	204.1
45°	1347.6	985.6	270.7	293.1	315.5	276.2	228.9	197.0	183.9	217.2	236.6
47.5°	1455.9	980.9	260.5	294.6	317.7	276.2	224.4	201.8	192.6	251.5	274.3
50°	1574.5	967.2	250.5	291.6	317.0	275.7	228.6	206.5	195.8	257.6	273.2
52.5°	1714.2	955.7	240.1	285.2	311.8	272.9	233.6	204.5	185.7	234.2	245.1
55°	1873.4	959.0	228.4	276.0	303.6	267.7	231.9	196.6	174.9	206.2	213.0
57.5°	2076.9	997.6	214.5	264.2	292.4	259.0	225.7	192.8	171.7	187.1	191.1
60°	2304.1	1064.7	197.0	252.6	278.4	245.1	221.0	194.6	173.2	185.7	187.6
62.5°	2470.8	1103.8	182.2	235.4	259.5	229.7	215.0	196.8	177.2	190.9	190.4
65°	2516.2	1039.6	163.5	210.2	233.8	213.5	207.6	199.3	178.9	195.1	192.8
66°	2452.6	970.4	155.3	198.6	221.0	205.5	203.8	199.1	178.2	195.6	191.8
67.5°	2298.7	828.6	141.1	181.4	200.3	193.5	197.8	196.8	176.2	195.1	189.9
70°	1874.7	565.3	120.7	151.0	166.7	170.4	186.4	188.8	169.7	186.4	174.9
72.5°	1309.8	344.3	106.8	117.2	134.8	145.4	170.7	177.9	161.0	162.8	151.8
75°	633.0	182.9	96.8	90.8	104.8	121.4	151.8	163.0	147.3	136.2	132.2
77.5°	197.3	111.7	82.1	73.1	82.1	98.0	126.9	142.8	131.1	114.0	112.4
80°	106.0	82.1	63.2	58.7	65.0	76.9	99.7	119.2	112.7	102.3	91.3
82.5°	70.0	53.3	46.7	45.5	49.5	58.7	74.2	98.8	98.8	87.6	63.7
85°	36.1	32.6	32.1	32.1	34.6	39.1	50.5	76.1	81.1	46.2	38.4
87.5°	17.9	18.6	17.4	18.2	19.4	19.1	24.1	38.4	45.8	28.1	23.4
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)