

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: P191369

Luminaire Tested: **GLEON-AF-01-LED-E1-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191369  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6256.4 lumens  
Efficiency: N/A  
Efficacy: 106.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B1 - U0 - G2

Input Watts (W): 59  
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

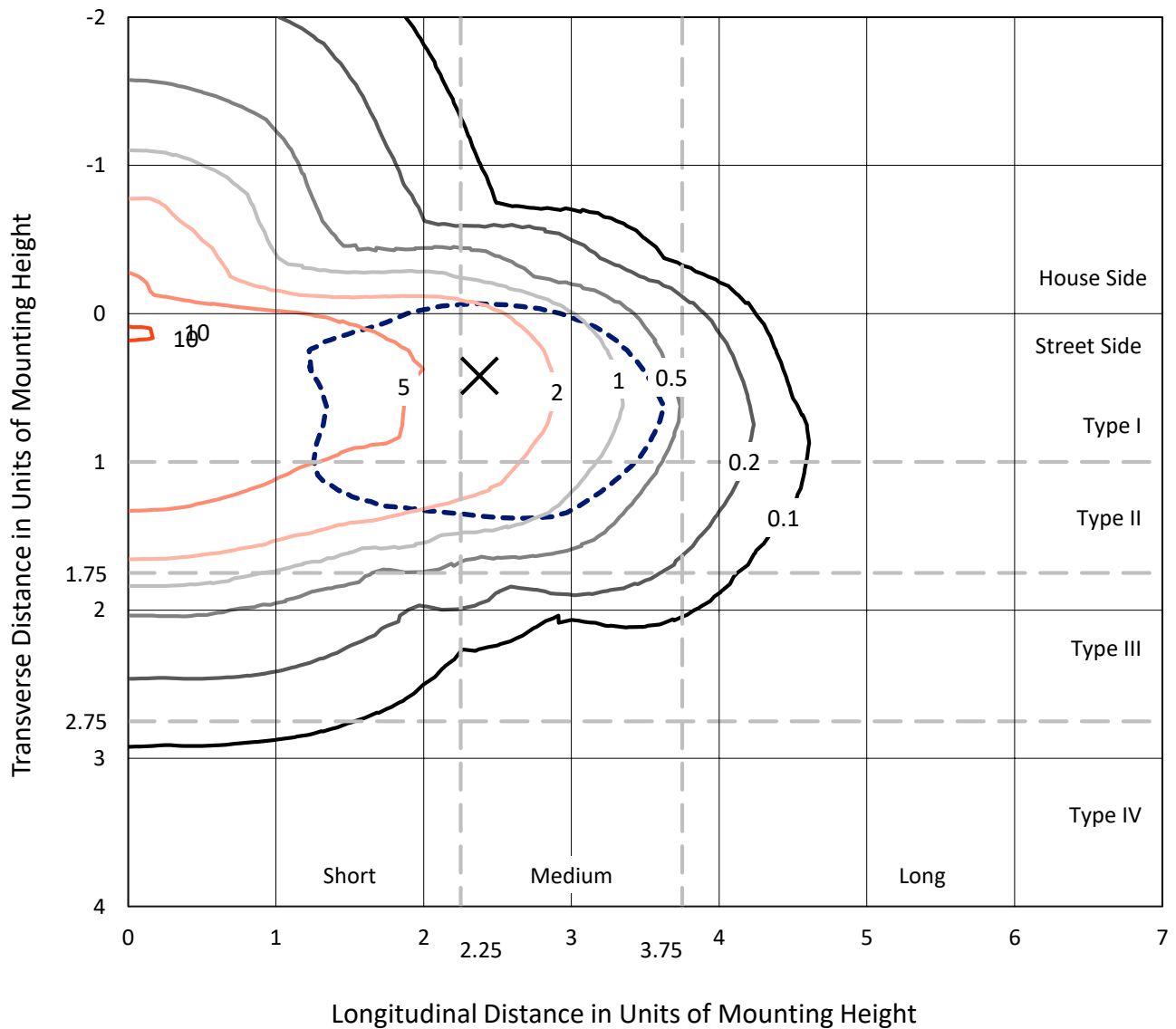


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

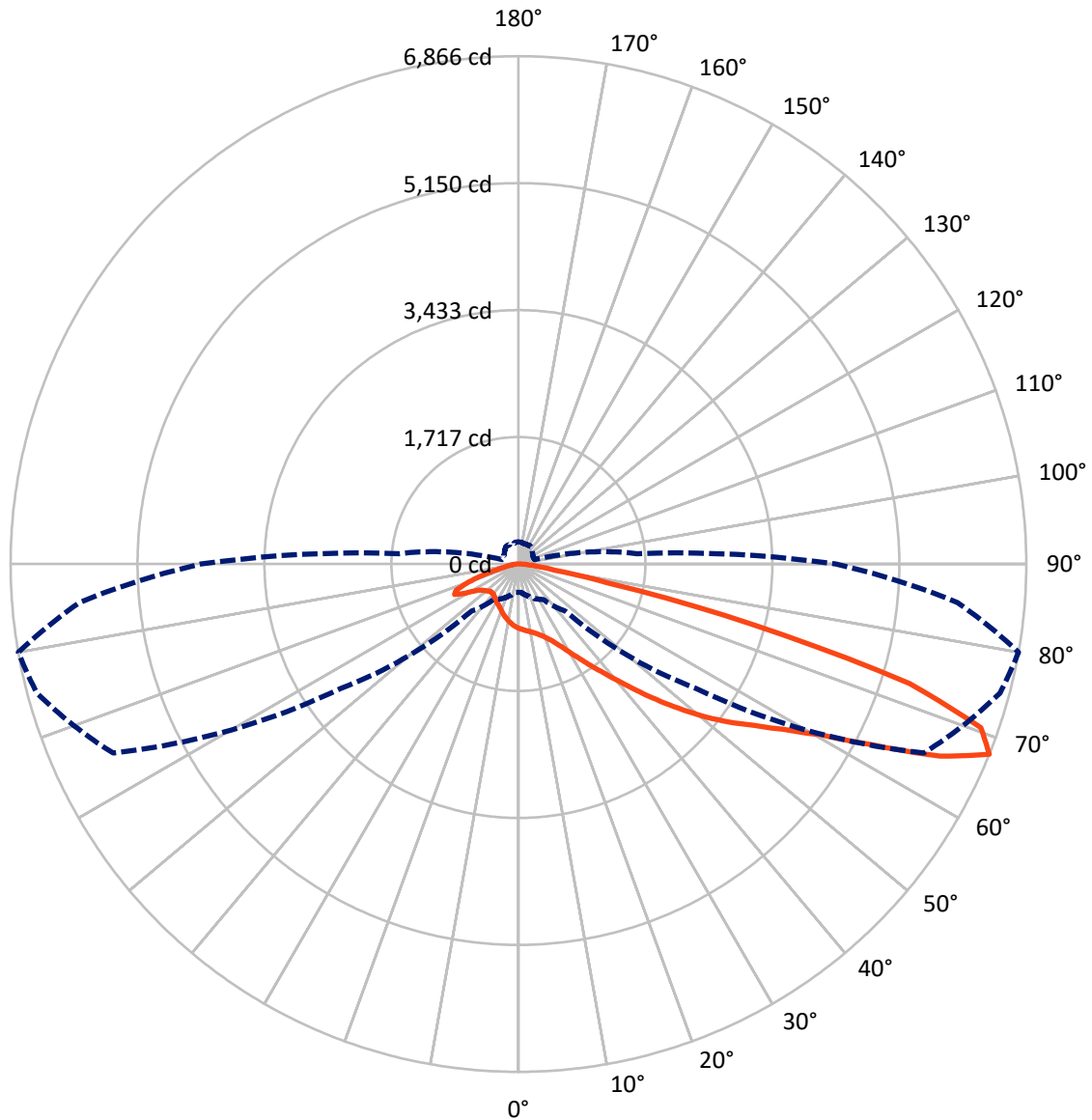


Based on 10 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1152.2	0.0	1152.2
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	5104.2	0.0	5104.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	6256.4	0.0	6256.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	1.3
10°-20°	231.0	3.7
20°-30°	382.3	6.1
30°-40°	625.4	10.0
40°-50°	1009.7	16.1
50°-60°	1457.7	23.3
60°-70°	1608.7	25.7
70°-80°	741.5	11.9
80°-90°	119.9	1.9
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°	6256.4	100.0
0°-180°	6256.4	100.0



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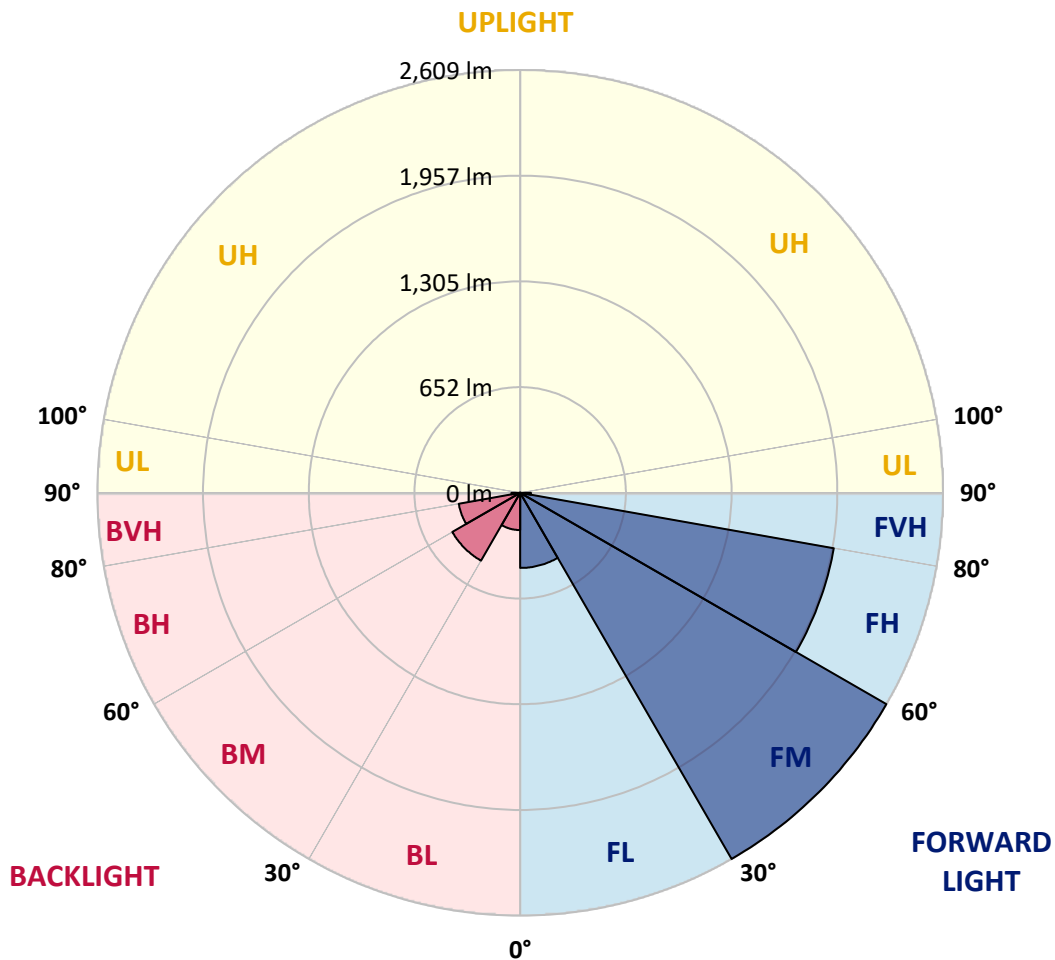
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.6	7.4			
FM (30°-60°)	2609.4	41.7			
FH (60°-80°)	1965.3	31.4			G2/5000
FVH (80°-90°)	65.9	1.1			G1/100
BL (0°-30°)	229.9	3.7	B1/500		
BM (30°-60°)	483.4	7.7	B1/1000		
BH (60°-80°)	384.9	6.2	B1/500		G1/500
BVH (80°-90°)	54.0	0.9			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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2
2.5°	950.8	945.3	946.2	944.7	940.0	932.0	923.4	907.7	891.4	882.7	876.0
5°	1030.3	1028.8	1026.5	1021.6	1010.0	993.3	972.7	945.0	915.1	899.4	884.2
7.5°	1089.7	1088.8	1086.1	1083.0	1071.5	1051.5	1020.4	981.0	937.5	916.1	892.6
10°	1094.7	1096.2	1098.3	1106.6	1108.2	1097.4	1065.7	1017.9	961.0	933.2	903.4
12.5°	1052.7	1056.2	1064.5	1085.8	1108.2	1121.5	1105.1	1056.8	988.4	954.8	917.0
15°	997.3	999.2	1009.3	1038.6	1078.9	1119.9	1135.3	1099.6	1023.8	982.5	937.2
17.5°	973.6	974.6	981.6	1001.1	1038.6	1097.1	1152.3	1146.1	1067.2	1017.0	962.2
20°	961.6	963.7	974.0	993.0	1016.7	1067.9	1154.7	1196.3	1119.0	1060.2	993.6
22.5°	995.7	994.8	998.6	1008.1	1028.2	1059.0	1152.9	1248.0	1184.9	1115.6	1034.6
25°	1075.5	1078.9	1072.5	1061.7	1068.2	1089.7	1162.7	1304.1	1267.4	1186.7	1088.2
27.5°	1189.2	1185.8	1176.3	1151.0	1137.7	1147.0	1195.3	1364.5	1370.0	1280.4	1159.0
30°	1302.5	1299.8	1290.6	1259.8	1232.7	1225.0	1258.8	1433.8	1492.3	1392.8	1245.9
32.5°	1420.2	1417.1	1408.5	1377.7	1345.1	1327.2	1349.1	1513.9	1636.4	1527.1	1348.1
35°	1565.3	1559.4	1541.3	1498.4	1466.4	1452.6	1462.7	1614.5	1802.7	1686.0	1472.2
37.5°	1701.8	1710.7	1692.2	1633.0	1591.5	1586.5	1598.0	1737.5	1982.0	1863.7	1614.8
40°	1838.8	1840.3	1823.7	1775.3	1732.6	1724.5	1753.1	1886.5	2193.6	2076.3	1788.3
42.5°	1980.4	1983.6	1955.6	1910.9	1879.5	1881.0	1913.6	2061.1	2436.4	2326.7	1987.9
45°	2148.3	2153.0	2122.1	2063.6	2035.0	2092.5	2079.0	2257.0	2702.4	2611.3	2217.0
47.5°	2323.9	2331.0	2307.6	2252.7	2217.0	2296.2	2244.5	2474.2	2988.9	2916.5	2468.7
50°	2419.7	2429.8	2452.6	2448.6	2441.0	2427.7	2428.9	2707.0	3284.3	3234.4	2727.4
52.5°	2368.2	2367.9	2451.1	2552.2	2660.0	2668.0	2653.7	2952.5	3560.3	3545.1	2971.1
55°	2133.0	2148.9	2274.9	2470.5	2764.9	2948.9	2990.7	3233.8	3831.3	3848.9	3218.3
57.5°	1741.2	1754.4	1924.4	2197.0	2623.3	3115.8	3470.0	3642.5	4134.4	4216.3	3547.6
60°	1180.9	1197.0	1377.1	1704.5	2242.0	3022.7	3926.2	4371.8	4497.2	4683.6	4009.7
62.5°	694.0	708.4	855.3	1075.2	1578.5	2590.6	4126.4	5409.5	5073.4	5388.6	4714.4
65°	477.7	487.5	559.0	669.3	907.1	1744.8	3878.1	6125.9	5960.2	6262.1	5531.5
67.5°	384.4	383.2	439.9	515.0	584.0	899.7	2932.5	6044.9	6740.1	6866.0	5955.6
70°	316.6	315.4	353.9	416.1	466.7	506.7	1597.3	5101.1	6581.2	6632.3	5565.1
72.5°	264.8	266.1	290.7	337.0	382.9	381.7	701.9	3588.6	5177.3	5530.9	4436.2
75°	223.6	224.2	240.6	273.2	310.8	307.4	380.7	1944.1	3009.5	3255.6	2459.1
77.5°	190.4	191.0	201.4	219.6	246.4	245.2	277.8	839.9	1255.5	1240.0	841.2
80°	169.7	169.7	174.6	178.0	192.8	187.3	206.0	403.5	530.7	490.0	335.7
82.5°	133.1	133.7	163.9	162.6	151.8	144.7	144.7	237.7	281.2	259.9	196.5
85°	74.9	74.6	105.7	127.6	133.7	102.0	101.1	133.1	153.0	134.9	95.1
87.5°	32.0	32.6	49.0	56.7	75.8	63.4	62.5	68.6	77.9	67.4	44.1
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°	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2	869.2
2.5°	869.5	861.5	843.9	822.0	802.4	789.4	777.7	760.8	761.7	750.0	741.3
5°	868.9	852.2	811.6	763.2	716.7	683.1	657.9	635.2	629.5	618.8	612.3
7.5°	869.5	842.4	774.1	696.7	639.1	596.6	575.0	563.0	560.3	556.6	556.9
10°	871.7	833.5	732.7	634.5	574.1	546.1	540.8	544.5	548.9	550.1	550.4
12.5°	876.6	825.4	687.4	579.1	533.5	524.9	533.8	546.4	554.7	558.7	558.4
15°	887.7	819.3	644.0	535.6	511.0	515.6	532.2	550.1	562.1	567.6	567.9
17.5°	899.7	810.4	599.3	502.4	494.4	506.1	526.7	547.6	562.4	568.6	569.8
20°	915.4	799.2	552.6	477.4	478.6	491.8	511.3	532.2	548.6	553.8	556.3
22.5°	936.0	787.3	511.6	457.1	460.7	471.0	486.0	504.2	518.3	520.9	523.0
25°	963.7	774.4	478.9	438.6	440.2	446.0	456.1	467.0	476.8	474.0	476.2
27.5°	1001.1	763.2	454.6	421.7	418.9	420.1	425.3	428.7	433.9	426.3	427.2
30°	1044.7	751.3	435.8	406.8	399.2	397.0	398.2	400.1	404.1	393.6	392.1
32.5°	1095.6	736.7	418.3	393.9	383.2	378.8	379.4	384.4	399.8	393.3	389.9
35°	1154.7	720.5	399.8	379.8	372.4	366.2	365.6	381.0	426.9	422.9	419.8
37.5°	1224.1	704.1	381.4	363.8	364.4	357.6	355.5	373.0	432.1	416.4	414.3
40°	1312.1	695.5	365.6	346.8	354.6	353.6	349.2	358.2	397.6	369.0	365.3
42.5°	1421.2	696.7	353.9	328.7	342.8	352.7	345.9	346.2	360.4	338.8	335.4
45°	1555.7	711.2	345.6	314.1	329.6	351.8	344.6	339.7	340.9	329.6	327.8
47.5°	1712.8	741.0	339.7	302.2	316.9	348.3	344.3	337.9	335.1	329.0	327.4
50°	1887.4	784.5	335.4	290.7	305.6	342.8	344.6	336.0	333.0	330.5	329.6
52.5°	2059.0	834.1	329.0	280.9	296.7	336.0	345.6	334.2	330.8	329.0	328.1
55°	2250.3	896.0	319.1	272.6	289.2	327.4	345.6	331.4	327.8	328.1	327.8
57.5°	2508.7	996.0	307.4	265.5	280.3	316.9	339.7	328.4	323.8	324.1	324.4
60°	2912.5	1172.6	293.2	258.4	269.2	304.6	331.7	321.5	316.9	318.1	318.4
62.5°	3506.4	1431.6	274.8	248.0	257.5	291.3	320.6	312.9	308.3	311.4	311.4
65°	4123.6	1660.1	252.0	234.7	245.2	276.9	306.8	302.2	297.6	304.6	304.3
67.5°	4289.6	1609.0	229.1	220.2	232.8	260.9	290.1	287.7	285.2	297.6	297.0
70°	3810.6	1291.8	208.2	205.4	219.3	243.7	272.3	272.3	270.8	280.0	277.8
72.5°	2903.2	916.1	188.2	189.8	203.9	224.8	252.9	255.0	252.6	257.2	255.3
75°	1554.2	524.3	168.2	172.5	184.8	205.7	231.3	233.4	231.9	231.6	232.5
77.5°	516.5	256.2	147.2	154.0	164.8	186.1	208.8	212.3	208.5	207.9	207.6
80°	230.1	161.1	124.1	133.1	142.6	163.6	185.2	187.9	183.9	189.5	182.3
82.5°	147.8	106.0	99.5	109.4	118.6	141.1	161.4	162.0	158.4	183.9	156.8
85°	71.8	65.6	74.9	83.8	91.8	110.9	133.7	134.0	124.7	113.6	109.7
87.5°	35.7	38.2	49.9	57.9	61.9	76.1	97.3	95.4	91.5	83.2	76.7
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)