

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: P193899

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193899  
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-T2-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4032 lumens  
Efficiency: N/A  
Efficacy: 91.6 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 - G1

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

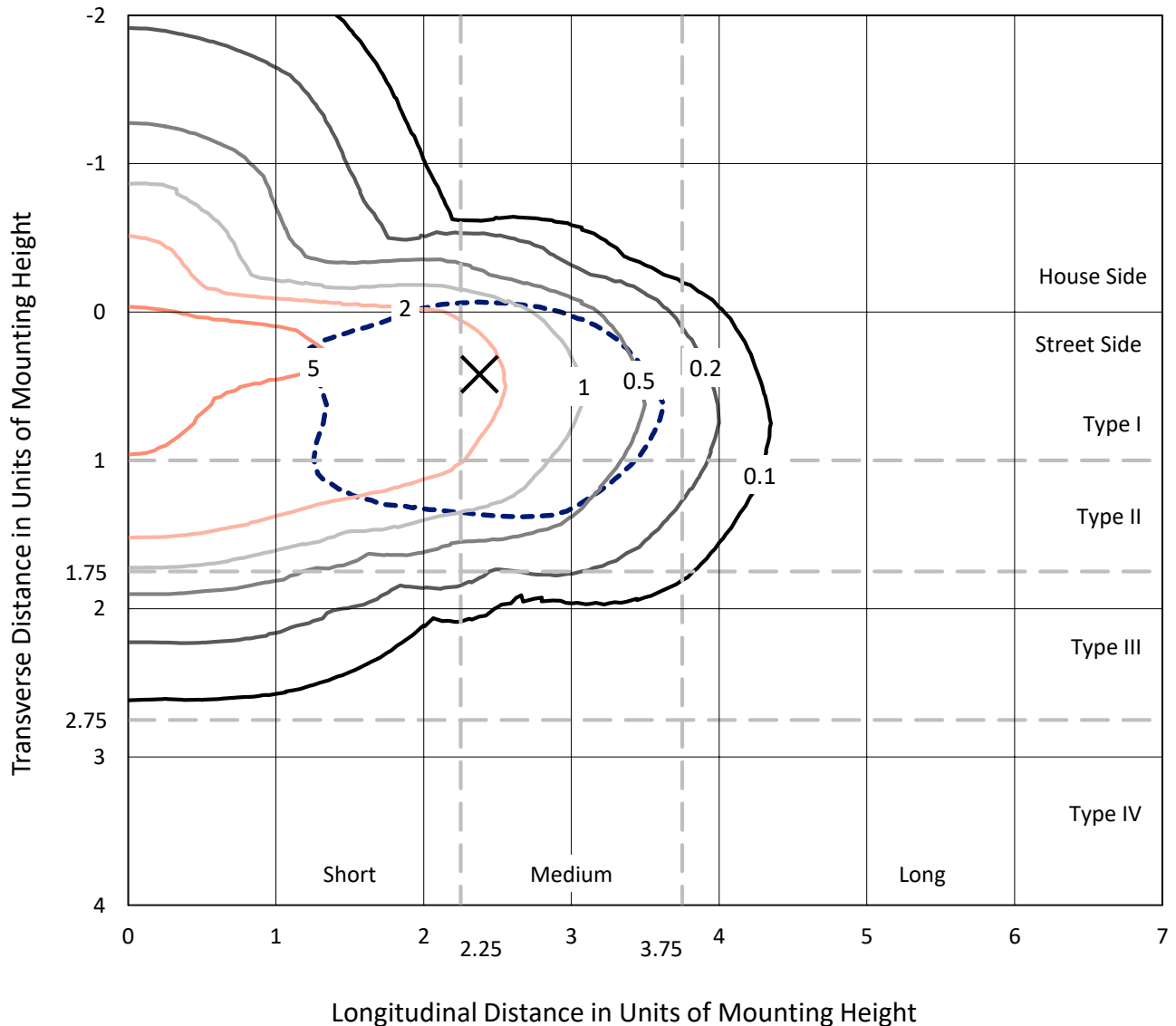


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### Iso-Footcandle Lines of Horizontal Illumination

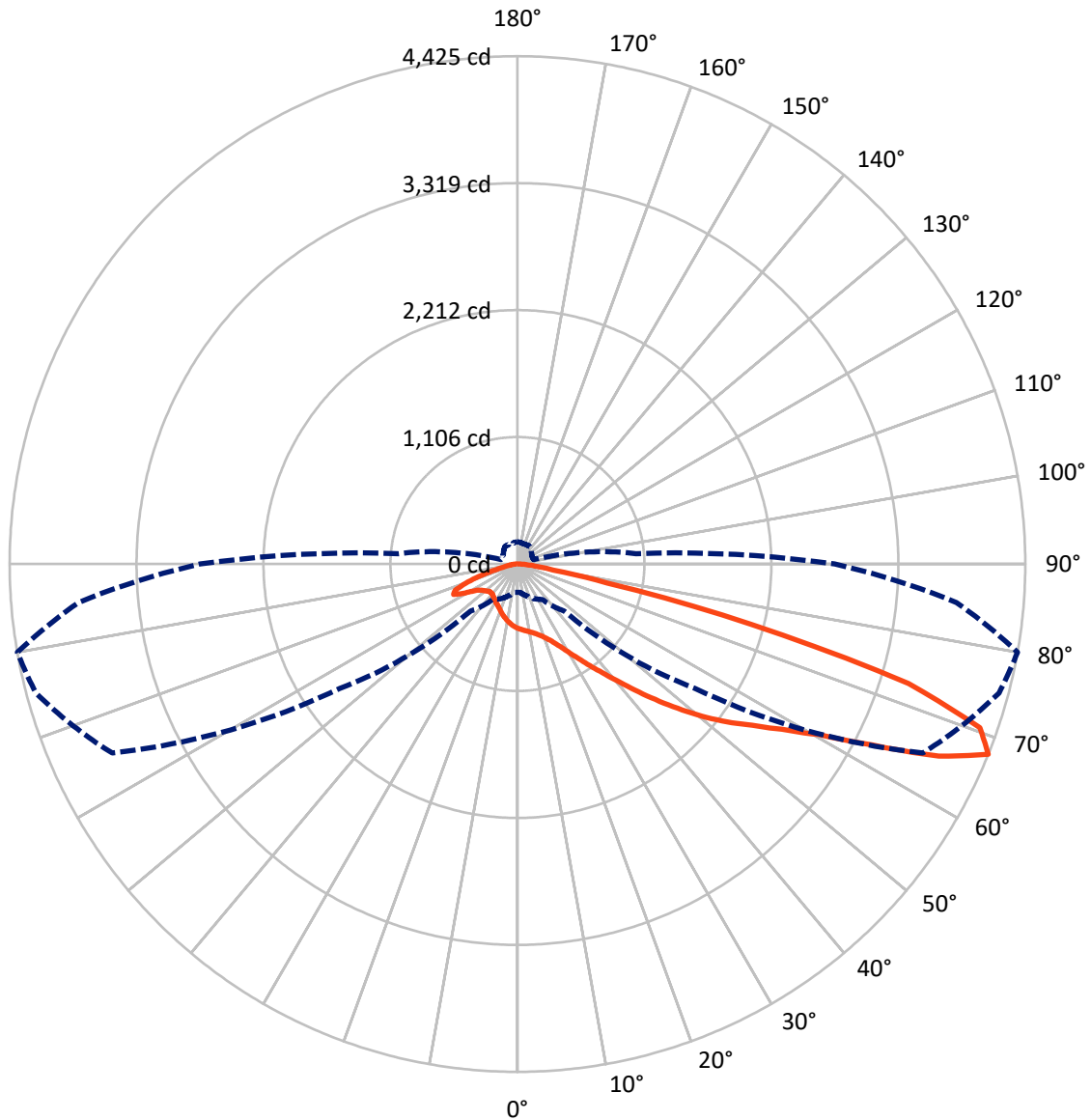
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 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	742.5	0.0	742.5
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	3289.5	0.0	3289.5
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	4032.0	0.0	4032.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.7	1.3
10°-20°	148.9	3.7
20°-30°	246.4	6.1
30°-40°	403.0	10.0
40°-50°	650.7	16.1
50°-60°	939.4	23.3
60°-70°	1036.7	25.7
70°-80°	477.9	11.9
80°-90°	77.3	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°	4032.0	100.0
0°-180°	4032.0	100.0



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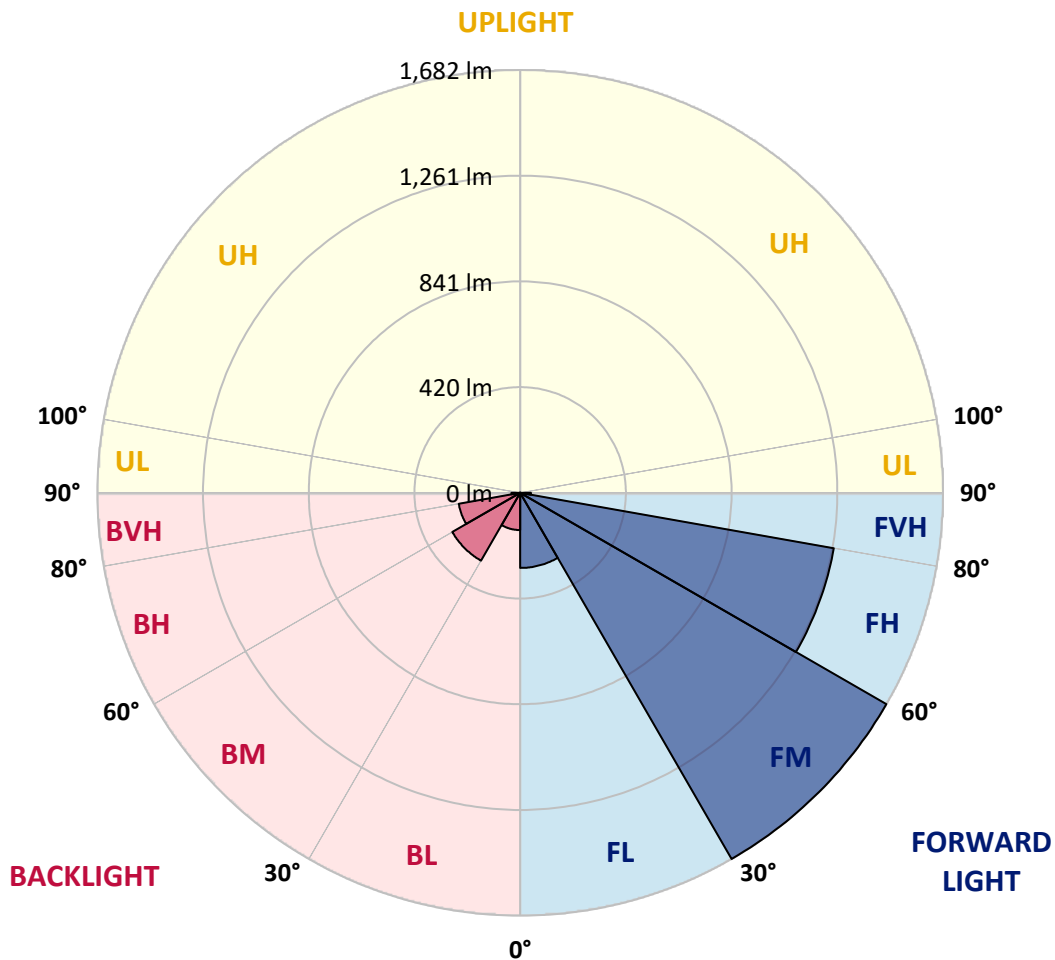
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.8	7.4			
FM (30°-60°)	1681.6	41.7			
FH (60°-80°)	1266.6	31.4			G1/1800
FVH (80°-90°)	42.5	1.1			G1/100
BL (0°-30°)	148.1	3.7	B1/500		
BM (30°-60°)	311.5	7.7	B1/1000		
BH (60°-80°)	248.1	6.2	B1/500		G1/500
BVH (80°-90°)	34.8	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-G1**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2
2.5°	612.8	609.2	609.8	608.8	605.8	600.7	595.1	585.0	574.5	568.9	564.5
5°	664.0	663.0	661.6	658.4	650.9	640.2	626.9	609.0	589.7	579.6	569.9
7.5°	702.3	701.7	699.9	697.9	690.6	677.7	657.6	632.2	604.2	590.3	575.2
10°	705.5	706.5	707.8	713.2	714.2	707.2	686.8	656.0	619.3	601.4	582.2
12.5°	678.5	680.7	686.0	699.7	714.2	722.7	712.2	681.0	637.0	615.3	590.9
15°	642.7	643.9	650.5	669.3	695.3	721.7	731.7	708.6	659.8	633.2	604.0
17.5°	627.5	628.0	632.6	645.1	669.3	707.1	742.6	738.6	687.8	655.4	620.1
20°	619.7	621.1	627.7	640.0	655.2	688.2	744.2	771.0	721.1	683.2	640.4
22.5°	641.7	641.1	643.5	649.7	662.6	682.4	743.0	804.3	763.6	719.0	666.8
25°	693.2	695.3	691.2	684.2	688.4	702.3	749.3	840.4	816.8	764.8	701.3
27.5°	766.4	764.2	758.1	741.8	733.3	739.2	770.4	879.3	882.9	825.2	746.9
30°	839.4	837.7	831.7	811.9	794.4	789.4	811.3	924.0	961.7	897.6	802.9
32.5°	915.3	913.3	907.7	887.9	866.8	855.3	869.4	975.6	1054.6	984.2	868.8
35°	1008.8	1005.0	993.3	965.7	945.1	936.1	942.7	1040.5	1161.8	1086.6	948.8
37.5°	1096.7	1102.5	1090.5	1052.4	1025.6	1022.5	1029.8	1119.7	1277.3	1201.1	1040.7
40°	1185.0	1186.0	1175.3	1144.1	1116.6	1111.4	1129.9	1215.8	1413.7	1338.1	1152.5
42.5°	1276.3	1278.3	1260.3	1231.5	1211.2	1212.2	1233.3	1328.4	1570.1	1499.5	1281.1
45°	1384.5	1387.5	1367.7	1329.9	1311.5	1348.6	1339.9	1454.6	1741.6	1682.9	1428.8
47.5°	1497.7	1502.2	1487.1	1451.8	1428.8	1479.8	1446.5	1594.5	1926.2	1879.6	1591.0
50°	1559.4	1566.0	1580.6	1578.1	1573.1	1564.6	1565.4	1744.6	2116.6	2084.4	1757.7
52.5°	1526.3	1526.1	1579.6	1644.8	1714.2	1719.4	1710.3	1902.8	2294.4	2284.7	1914.7
55°	1374.6	1384.9	1466.1	1592.2	1781.9	1900.4	1927.4	2084.0	2469.1	2480.4	2074.1
57.5°	1122.1	1130.6	1240.2	1415.9	1690.6	2008.0	2236.3	2347.4	2664.4	2717.2	2286.3
60°	761.0	771.4	887.5	1098.5	1444.9	1948.1	2530.3	2817.5	2898.3	3018.4	2584.1
62.5°	447.2	456.5	551.2	693.0	1017.3	1669.6	2659.3	3486.2	3269.7	3472.7	3038.2
65°	307.9	314.2	360.3	431.3	584.6	1124.5	2499.3	3947.9	3841.1	4035.7	3564.8
67.5°	247.7	246.9	283.5	331.9	376.4	579.8	1889.9	3895.7	4343.7	4424.9	3838.2
70°	204.1	203.3	228.1	268.2	300.7	326.5	1029.4	3287.5	4241.3	4274.3	3586.5
72.5°	170.7	171.5	187.4	217.2	246.7	245.9	452.4	2312.7	3336.6	3564.4	2859.0
75°	144.1	144.5	155.0	176.1	200.3	198.1	245.3	1252.9	1939.5	2098.1	1584.8
77.5°	122.7	123.1	129.8	141.5	158.8	158.0	179.0	541.3	809.1	799.2	542.1
80°	109.4	109.4	112.5	114.7	124.3	120.7	132.8	260.0	342.0	315.8	216.4
82.5°	85.8	86.1	105.6	104.8	97.9	93.3	93.3	153.2	181.2	167.5	126.6
85°	48.2	48.0	68.1	82.2	86.1	65.7	65.1	85.8	98.7	86.9	61.3
87.5°	20.6	21.0	31.6	36.5	48.8	40.9	40.3	44.3	50.2	43.5	28.4
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°	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2	560.2
2.5°	560.4	555.2	543.9	529.8	517.1	508.8	501.2	490.3	490.9	483.3	477.8
5°	560.0	549.2	523.0	491.9	461.9	440.3	424.0	409.3	405.7	398.8	394.6
7.5°	560.4	542.9	498.8	449.0	411.9	384.5	370.6	362.9	361.1	358.7	358.9
10°	561.8	537.1	472.2	408.9	370.0	351.9	348.6	350.9	353.7	354.5	354.7
12.5°	564.9	532.0	443.0	373.2	343.8	338.2	344.0	352.1	357.5	360.1	359.9
15°	572.1	528.0	415.1	345.2	329.3	332.3	343.0	354.5	362.3	365.8	366.0
17.5°	579.8	522.2	386.3	323.8	318.6	326.1	339.4	352.9	362.5	366.4	367.2
20°	589.9	515.1	356.1	307.7	308.5	317.0	329.5	343.0	353.5	356.9	358.5
22.5°	603.2	507.4	329.7	294.6	297.0	303.5	313.2	324.9	334.1	335.7	337.1
25°	621.1	499.0	308.7	282.7	283.7	287.4	294.0	300.9	307.3	305.5	306.9
27.5°	645.1	491.9	293.0	271.7	270.0	270.8	274.1	276.3	279.7	274.7	275.3
30°	673.3	484.1	280.9	262.2	257.3	255.9	256.7	257.8	260.4	253.7	252.7
32.5°	706.1	474.8	269.6	253.9	246.9	244.2	244.5	247.7	257.7	253.5	251.3
35°	744.2	464.3	257.7	244.7	240.0	236.0	235.6	245.5	275.1	272.5	270.6
37.5°	788.8	453.8	245.7	234.4	234.8	230.5	229.1	240.4	278.5	268.4	267.0
40°	845.6	448.2	235.6	223.5	228.5	227.9	225.1	230.9	256.3	237.8	235.4
42.5°	915.9	449.0	228.1	211.8	220.9	227.3	222.9	223.1	232.2	218.3	216.2
45°	1002.6	458.3	222.7	202.5	212.4	226.7	222.1	218.9	219.7	212.4	211.2
47.5°	1103.8	477.6	218.9	194.7	204.3	224.5	221.9	217.8	216.0	212.0	211.0
50°	1216.4	505.6	216.2	187.4	196.9	220.9	222.1	216.6	214.6	213.0	212.4
52.5°	1327.0	537.5	212.0	181.0	191.2	216.6	222.7	215.4	213.2	212.0	211.4
55°	1450.2	577.4	205.6	175.7	186.4	211.0	222.7	213.6	211.2	211.4	211.2
57.5°	1616.8	641.9	198.1	171.1	180.6	204.3	218.9	211.6	208.6	208.8	209.0
60°	1877.0	755.7	189.0	166.5	173.5	196.3	213.8	207.2	204.3	205.0	205.2
62.5°	2259.7	922.6	177.1	159.8	165.9	187.8	206.6	201.7	198.7	200.7	200.7
65°	2657.5	1069.9	162.4	151.3	158.0	178.4	197.7	194.7	191.7	196.3	196.1
67.5°	2764.5	1037.0	147.7	141.9	150.1	168.1	187.0	185.4	183.8	191.7	191.4
70°	2455.8	832.5	134.2	132.4	141.3	157.0	175.5	175.5	174.5	180.4	179.0
72.5°	1871.0	590.3	121.3	122.3	131.4	144.9	163.0	164.4	162.8	165.7	164.6
75°	1001.6	337.8	108.4	111.2	119.1	132.6	149.1	150.5	149.5	149.3	149.9
77.5°	332.9	165.2	94.9	99.2	106.2	119.9	134.6	136.8	134.4	134.0	133.8
80°	148.3	103.8	80.0	85.8	91.9	105.4	119.3	121.1	118.5	122.1	117.5
82.5°	95.3	68.3	64.1	70.5	76.4	90.9	104.0	104.4	102.0	118.5	101.0
85°	46.3	42.3	48.2	54.0	59.2	71.5	86.1	86.3	80.4	73.2	70.7
87.5°	23.0	24.6	32.2	37.3	39.9	49.0	62.7	61.5	59.0	53.6	49.4
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)