

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: P193919

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193919
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-T2-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5475 lumens
Efficiency: N/A
Efficacy: 81.7 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): 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

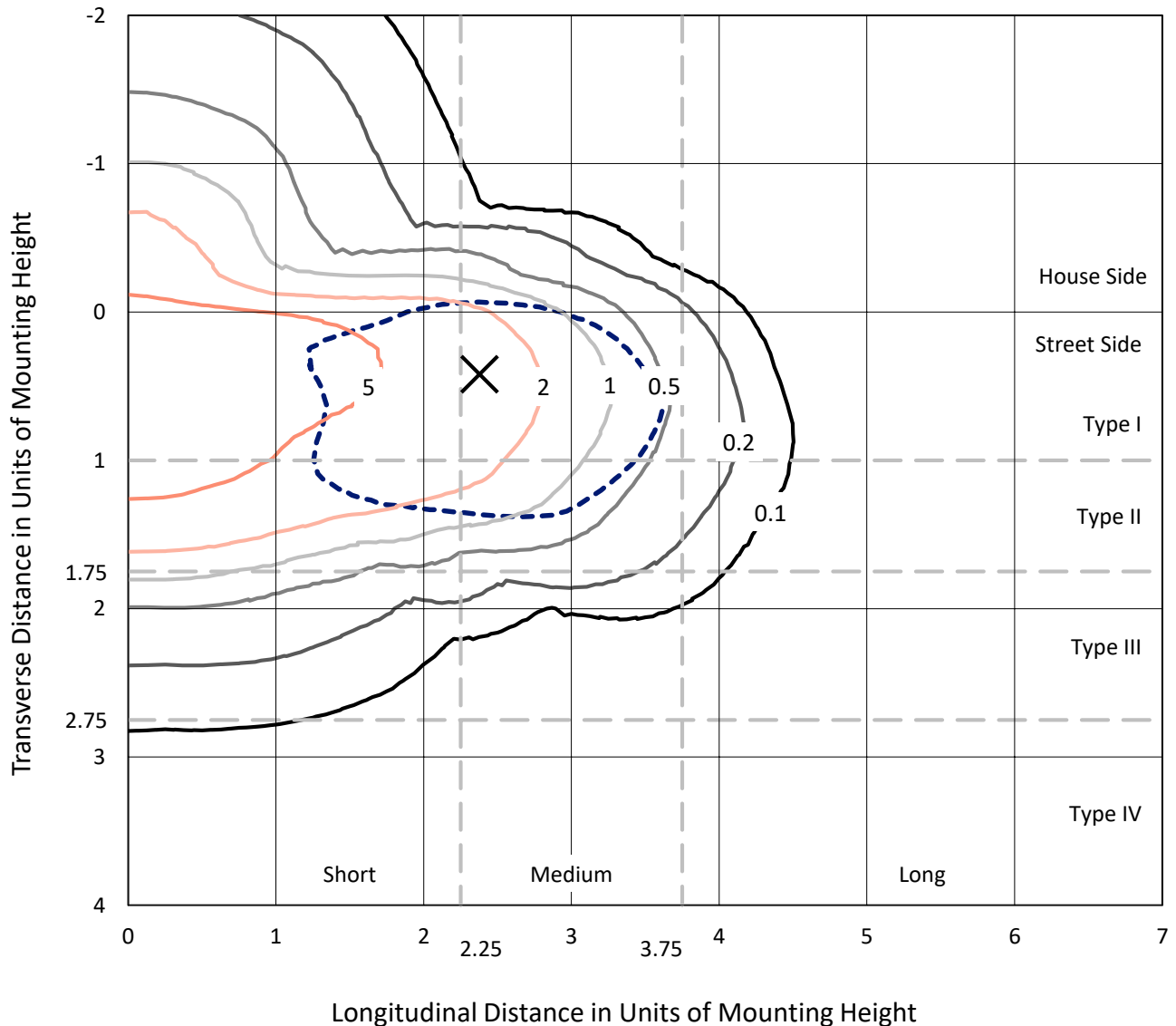


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

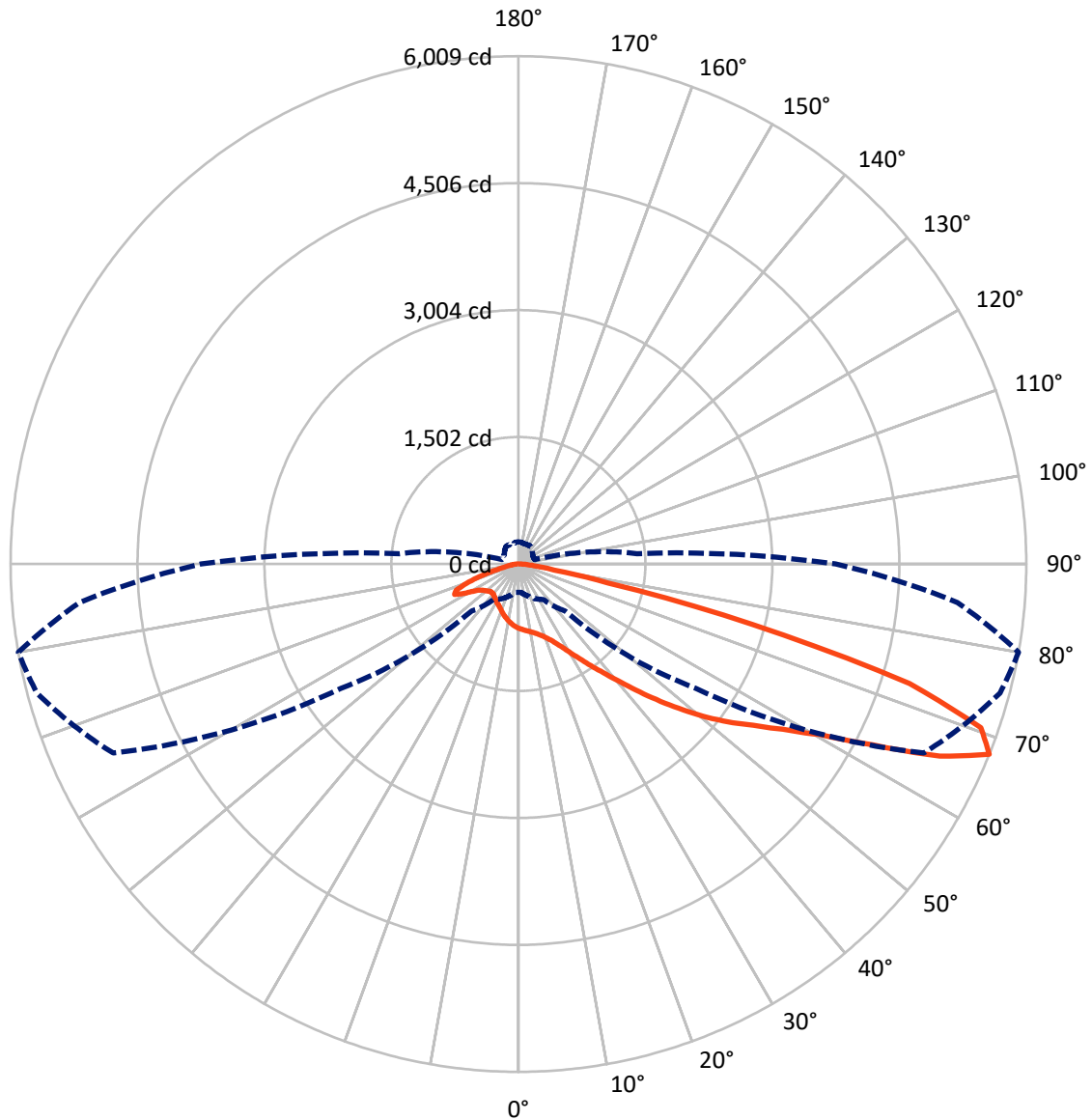


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - Full Cutoff

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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
House Side	Lumens	1008.3	0.0	1008.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4466.7	0.0	4466.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	5475.0	0.0	5475.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.2	1.3
10°-20°	202.1	3.7
20°-30°	334.6	6.1
30°-40°	547.3	10.0
40°-50°	883.6	16.1
50°-60°	1275.7	23.3
60°-70°	1407.8	25.7
70°-80°	648.9	11.9
80°-90°	105.0	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°	5475.0	100.0
0°-180°	5475.0	100.0



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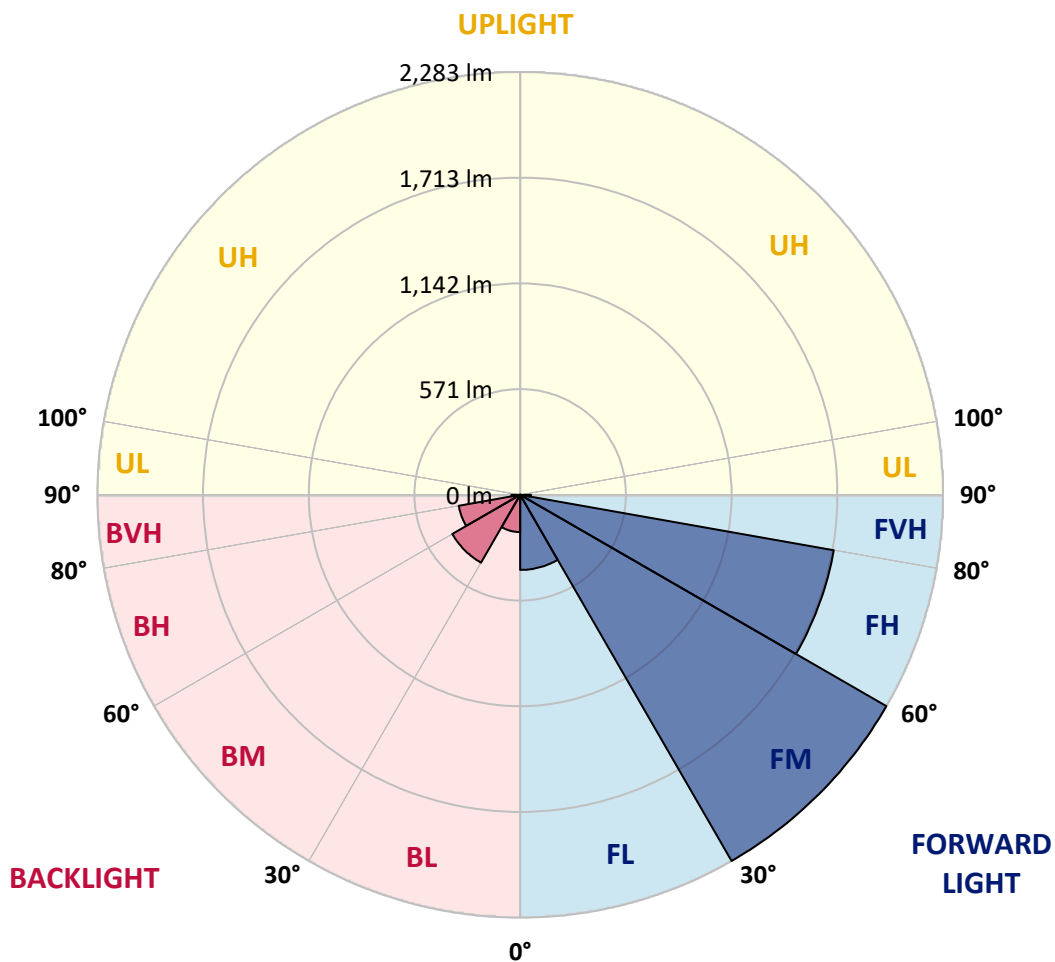
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	405.7	7.4			
FM (30°-60°)	2283.5	41.7			
FH (60°-80°)	1719.8	31.4			G1/1800
FVH (80°-90°)	57.7	1.1			G1/100
BL (0°-30°)	201.2	3.7	B1/500		
BM (30°-60°)	423.0	7.7	B1/1000		
BH (60°-80°)	336.8	6.2	B1/500		G1/500
BVH (80°-90°)	47.3	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°	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6
2.5°	832.1	827.2	828.0	826.7	822.6	815.6	808.1	794.3	780.0	772.5	766.6
5°	901.6	900.3	898.4	894.1	883.8	869.3	851.2	826.9	800.8	787.1	773.8
7.5°	953.6	952.8	950.4	947.7	937.7	920.2	893.0	858.5	820.5	801.6	781.1
10°	957.9	959.3	961.2	968.5	969.8	960.4	932.6	890.8	841.0	816.7	790.6
12.5°	921.3	924.2	931.5	950.1	969.8	981.4	967.1	924.8	864.9	835.6	802.4
15°	872.8	874.4	883.3	908.9	944.2	980.0	993.5	962.3	895.9	859.8	820.2
17.5°	852.0	852.8	859.0	876.0	908.9	960.1	1008.3	1003.0	933.9	890.0	842.0
20°	841.5	843.4	852.3	869.0	889.7	934.5	1010.5	1046.9	979.2	927.8	869.5
22.5°	871.4	870.6	873.8	882.2	899.7	926.7	1008.9	1092.2	1036.9	976.3	905.4
25°	941.2	944.2	938.5	929.1	934.8	953.6	1017.5	1141.2	1109.1	1038.5	952.3
27.5°	1040.7	1037.7	1029.4	1007.3	995.7	1003.8	1046.1	1194.1	1198.9	1120.5	1014.3
30°	1139.9	1137.5	1129.4	1102.4	1078.7	1072.0	1101.6	1254.7	1305.9	1218.9	1090.3
32.5°	1242.8	1240.1	1232.6	1205.6	1177.1	1161.4	1180.6	1324.8	1432.1	1336.4	1179.8
35°	1369.8	1364.7	1348.8	1311.3	1283.3	1271.1	1280.0	1412.9	1577.6	1475.5	1288.4
37.5°	1489.2	1497.0	1480.8	1429.1	1392.7	1388.4	1398.4	1520.5	1734.5	1631.0	1413.2
40°	1609.1	1610.5	1595.9	1553.6	1516.2	1509.1	1534.2	1650.9	1919.7	1817.0	1564.9
42.5°	1733.1	1735.8	1711.3	1672.2	1644.7	1646.1	1674.6	1803.7	2132.0	2036.1	1739.6
45°	1880.0	1884.1	1857.1	1805.9	1780.8	1831.2	1819.4	1975.2	2364.9	2285.1	1940.1
47.5°	2033.7	2039.9	2019.4	1971.4	1940.1	2009.4	1964.1	2165.2	2615.6	2552.3	2160.3
50°	2117.5	2126.4	2146.3	2142.8	2136.1	2124.5	2125.6	2369.0	2874.1	2830.4	2386.8
52.5°	2072.5	2072.2	2145.0	2233.4	2327.7	2334.7	2322.3	2583.8	3115.6	3102.4	2600.0
55°	1866.6	1880.6	1990.8	2162.0	2419.6	2580.6	2617.2	2829.9	3352.8	3368.1	2816.4
57.5°	1523.7	1535.3	1684.1	1922.6	2295.7	2726.6	3036.6	3187.6	3618.0	3689.7	3104.5
60°	1033.4	1047.4	1205.1	1491.6	1962.0	2645.2	3435.8	3825.8	3935.5	4098.6	3508.8
62.5°	607.3	619.9	748.5	941.0	1381.4	2267.1	3611.0	4733.9	4439.8	4715.6	4125.6
65°	418.1	426.7	489.2	585.7	793.8	1526.9	3393.8	5360.8	5215.8	5480.0	4840.6
67.5°	336.4	335.3	384.9	450.7	511.0	787.3	2566.3	5290.0	5898.3	6008.5	5211.8
70°	277.1	276.0	309.7	364.1	408.4	443.4	1397.8	4464.1	5759.2	5804.0	4870.0
72.5°	231.8	232.9	254.4	294.9	335.0	334.0	614.3	3140.4	4530.7	4840.1	3882.2
75°	195.7	196.2	210.5	239.1	272.0	269.0	333.1	1701.3	2633.7	2849.0	2152.0
77.5°	166.6	167.1	176.3	192.2	215.6	214.6	243.1	735.0	1098.6	1085.2	736.1
80°	148.5	148.5	152.8	155.8	168.7	163.9	180.3	353.1	464.4	428.8	293.8
82.5°	116.4	117.0	143.4	142.3	132.9	126.7	126.7	208.1	246.1	227.5	172.0
85°	65.5	65.2	92.5	111.6	117.0	89.2	88.4	116.4	134.0	118.1	83.3
87.5°	28.0	28.6	42.9	49.6	66.3	55.5	54.7	60.1	68.2	59.0	38.5
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°	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6	760.6
2.5°	760.9	753.9	738.5	719.4	702.1	690.8	680.6	665.8	666.6	656.3	648.8
5°	760.4	745.8	710.2	667.9	627.2	597.8	575.7	555.8	550.9	541.5	535.8
7.5°	760.9	737.2	677.3	609.7	559.3	522.1	503.2	492.7	490.3	487.1	487.3
10°	762.8	729.4	641.2	555.2	502.4	477.9	473.3	476.5	480.3	481.4	481.7
12.5°	767.1	722.4	601.6	506.7	466.8	459.3	467.1	478.2	485.4	488.9	488.7
15°	776.8	717.0	563.6	468.7	447.2	451.2	465.8	481.4	491.9	496.8	497.0
17.5°	787.3	709.2	524.5	439.6	432.6	442.9	460.9	479.2	492.2	497.6	498.6
20°	801.1	699.5	483.6	417.8	418.9	430.5	447.4	465.8	480.0	484.6	486.8
22.5°	819.1	688.9	447.7	400.0	403.2	412.1	425.3	441.2	453.6	455.8	457.7
25°	843.4	677.6	419.1	383.8	385.2	390.3	399.2	408.6	417.2	414.8	416.7
27.5°	876.0	667.9	397.8	369.0	366.6	367.7	372.2	375.2	379.8	373.0	373.8
30°	914.3	657.4	381.4	356.1	349.3	347.4	348.5	350.1	353.6	344.5	343.1
32.5°	958.7	644.7	366.0	344.7	335.3	331.5	332.1	336.4	349.9	344.2	341.2
35°	1010.5	630.4	349.9	332.3	325.9	320.5	319.9	333.4	373.6	370.1	367.4
37.5°	1071.1	616.2	333.7	318.3	318.9	312.9	311.0	326.4	378.2	364.4	362.5
40°	1148.2	608.6	319.9	303.5	310.2	309.4	305.7	313.5	348.0	322.9	319.7
42.5°	1243.6	609.7	309.7	287.6	300.0	308.6	302.7	303.0	315.4	296.5	293.5
45°	1361.4	622.4	302.4	274.9	288.4	307.8	301.6	297.3	298.4	288.4	286.8
47.5°	1498.9	648.5	297.3	264.4	277.4	304.8	301.3	295.7	293.3	287.9	286.5
50°	1651.7	686.5	293.5	254.4	267.4	300.0	301.6	294.1	291.4	289.2	288.4
52.5°	1801.9	729.9	287.9	245.8	259.6	294.1	302.4	292.4	289.5	287.9	287.1
55°	1969.2	784.1	279.2	238.5	253.1	286.5	302.4	290.0	286.8	287.1	286.8
57.5°	2195.4	871.7	269.0	232.3	245.3	277.4	297.3	287.3	283.3	283.6	283.8
60°	2548.8	1026.1	256.6	226.1	235.6	266.6	290.3	281.4	277.4	278.4	278.7
62.5°	3068.4	1252.8	240.4	217.0	225.3	255.0	280.6	273.9	269.8	272.5	272.5
65°	3608.6	1452.8	220.5	205.4	214.6	242.3	268.5	264.4	260.4	266.6	266.3
67.5°	3753.9	1408.1	200.5	192.7	203.8	228.3	253.9	251.7	249.6	260.4	259.8
70°	3334.7	1130.4	182.2	179.8	191.9	213.2	238.3	238.3	236.9	245.0	243.1
72.5°	2540.7	801.6	164.7	166.0	178.4	196.8	221.3	223.2	221.0	225.1	223.4
75°	1360.1	458.8	147.2	150.9	161.7	180.1	202.4	204.3	203.0	202.7	203.5
77.5°	452.0	224.3	128.8	134.8	144.2	162.8	182.7	185.7	182.5	181.9	181.7
80°	201.3	141.0	108.6	116.4	124.8	143.1	162.0	164.4	160.9	165.8	159.6
82.5°	129.4	92.7	87.1	95.7	103.8	123.4	141.2	141.8	138.5	160.9	137.2
85°	62.8	57.4	65.5	73.3	80.3	97.0	117.0	117.2	109.2	99.5	96.0
87.5°	31.3	33.4	43.7	50.7	54.2	66.6	85.2	83.6	80.1	72.8	67.1
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)