

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: P194009

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194009  
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-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3426 lumens  
Efficiency: N/A  
Efficacy: 100.8 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 - G1

Input Watts (W): 34  
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

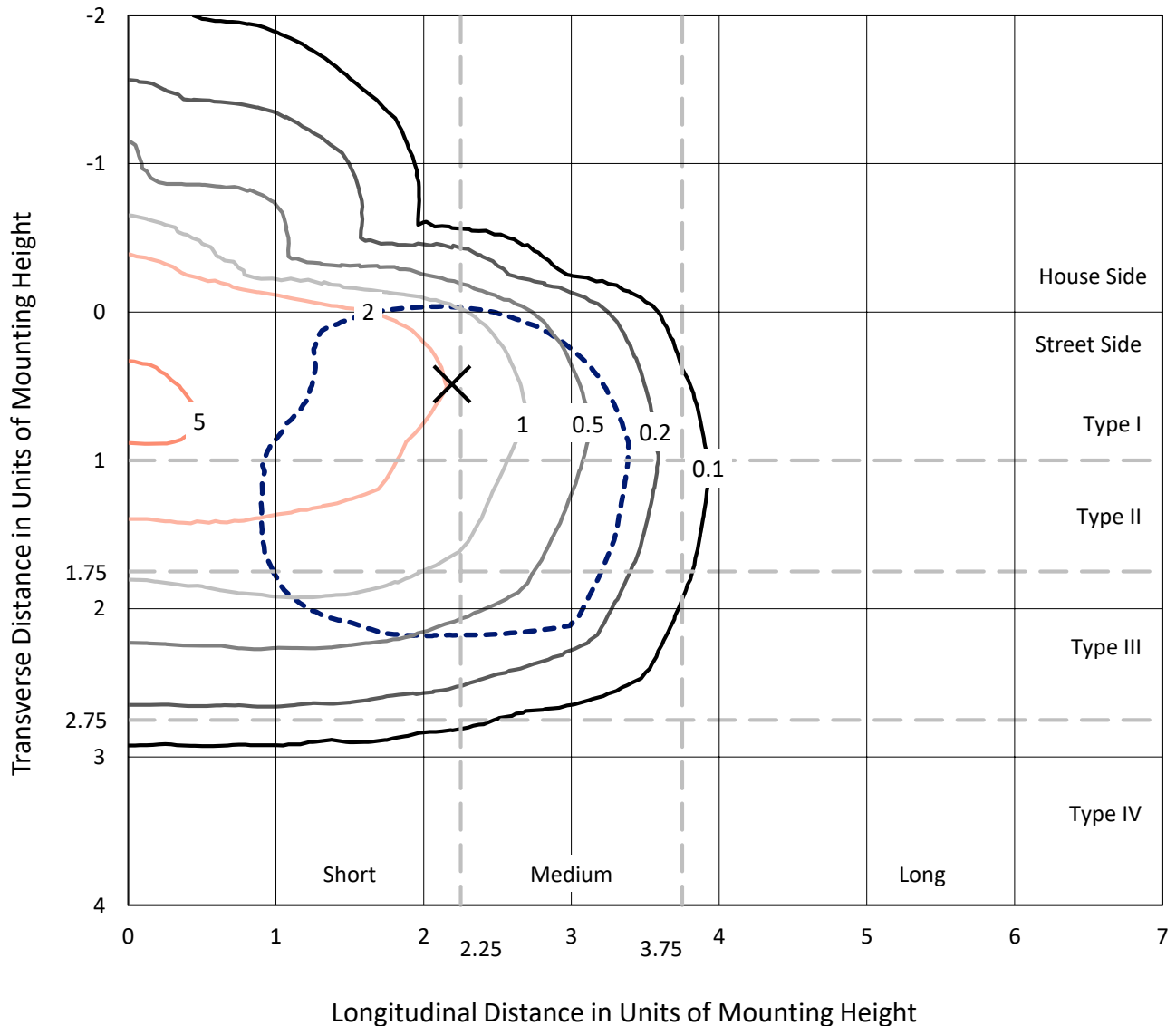


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

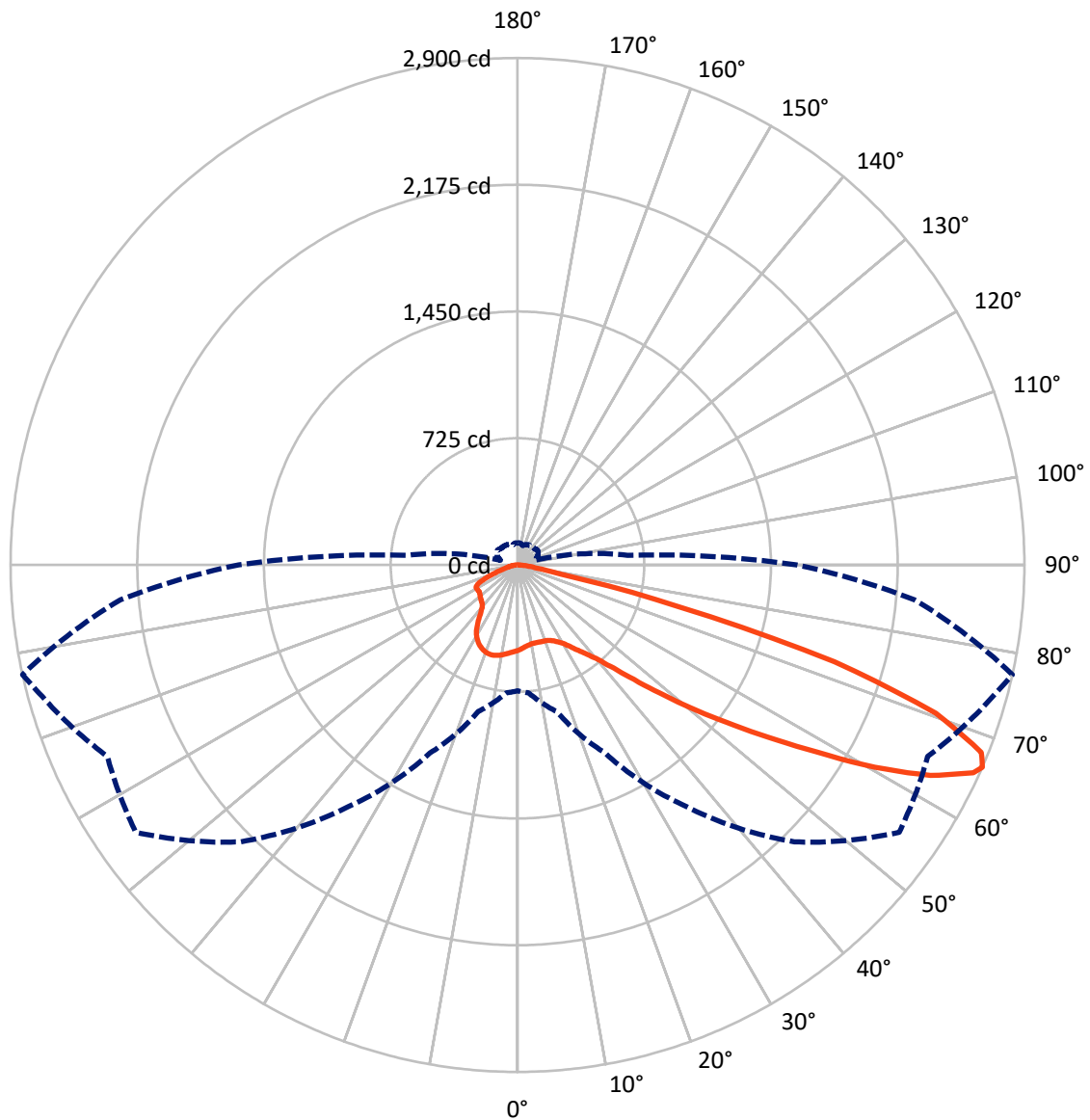


Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Short - Full Cutoff

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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	585.3	0.0	585.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	2840.7	0.0	2840.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	3426.0	0.0	3426.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.6	1.3
10°-20°	123.1	3.6
20°-30°	210.0	6.1
30°-40°	336.2	9.8
40°-50°	519.4	15.2
50°-60°	736.7	21.5
60°-70°	985.5	28.8
70°-80°	428.0	12.5
80°-90°	43.6	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°	3426.0	100.0
0°-180°	3426.0	100.0



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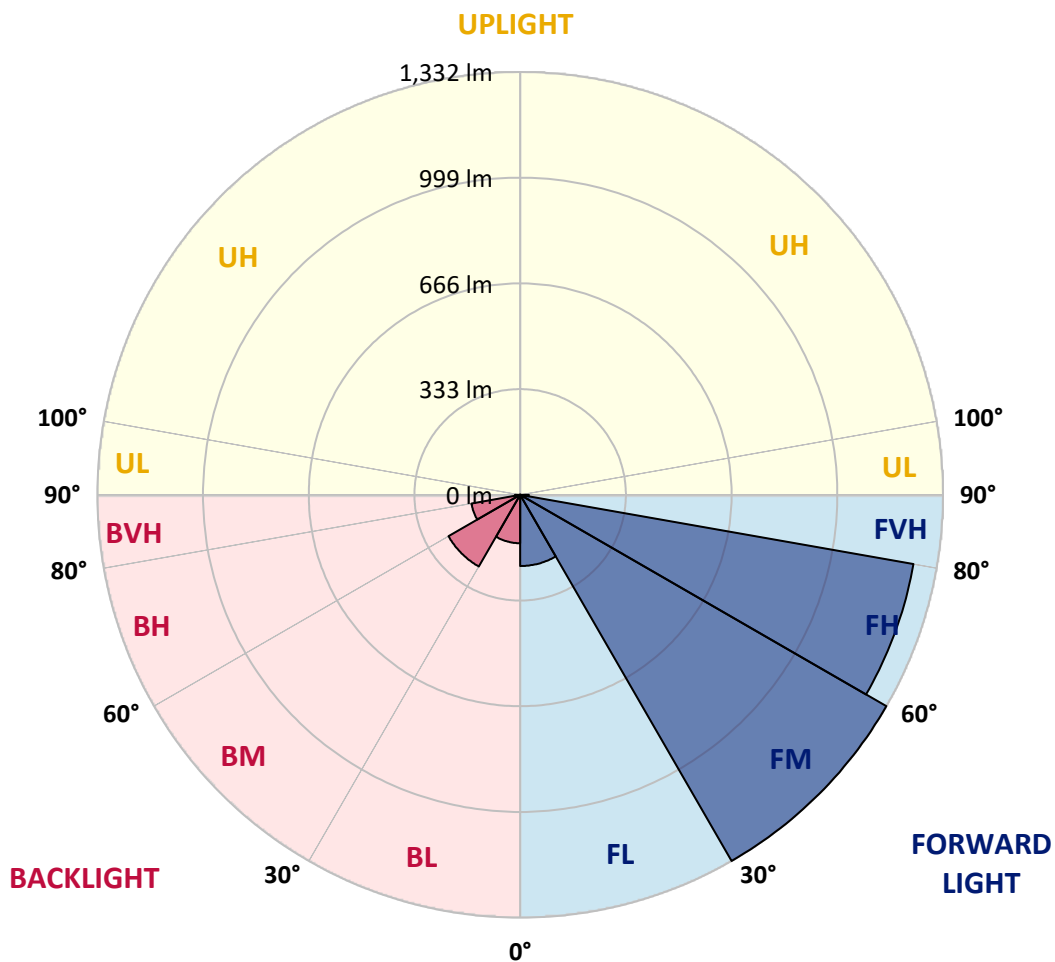
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	224.2	6.5			
FM	(30°-60°)	1331.5	38.9			
FH	(60°-80°)	1257.5	36.7			G1/1800
FVH	(80°-90°)	27.4	0.8			G1/100
BL	(0°-30°)	152.4	4.4	B1/500		
BM	(30°-60°)	260.7	7.6	B1/1000		
BH	(60°-80°)	155.9	4.5	B1/500		G1/500
BVH	(80°-90°)	16.3	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2
2.5°	431.9	434.8	437.2	439.5	444.0	451.5	460.1	467.0	477.1	479.0	484.3
5°	392.2	392.2	394.2	397.6	403.7	414.9	426.5	442.1	463.9	469.1	483.4
7.5°	373.0	373.1	374.3	377.2	382.5	392.7	405.5	423.8	453.4	462.0	486.3
10°	380.1	378.5	376.0	374.6	375.4	381.4	393.5	413.9	446.9	458.0	492.8
12.5°	419.9	416.8	408.4	397.2	386.6	382.2	389.3	409.2	444.2	457.0	501.3
15°	485.0	483.7	468.0	444.8	418.9	397.2	392.4	407.4	444.5	458.1	511.5
17.5°	566.6	564.8	544.1	510.4	468.1	425.9	403.2	408.9	445.6	460.1	521.4
20°	649.0	643.5	621.1	581.0	526.7	464.9	421.2	412.6	447.1	462.2	531.8
22.5°	710.5	705.9	685.9	646.9	584.4	510.1	445.3	419.1	451.8	468.3	544.6
25°	764.5	764.9	745.0	707.2	642.7	558.0	476.4	436.4	463.8	480.9	562.0
27.5°	831.4	827.5	808.9	771.5	700.3	606.4	514.0	460.2	481.6	498.9	585.0
30°	911.4	908.6	887.1	844.7	764.2	658.4	556.9	487.9	504.6	522.5	615.1
32.5°	1005.4	1004.1	981.8	927.2	838.0	719.5	607.2	524.5	538.9	557.5	658.4
35°	1115.8	1116.0	1089.6	1024.0	918.8	790.8	664.3	571.6	580.7	600.1	709.8
37.5°	1183.8	1192.1	1182.2	1115.3	1010.3	870.4	738.5	634.1	628.2	647.8	765.0
40°	1198.4	1208.4	1239.7	1205.7	1112.6	958.2	804.2	694.1	686.8	710.8	836.1
42.5°	1178.0	1191.9	1257.9	1281.9	1221.2	1066.3	892.6	783.3	774.1	806.3	924.5
45°	1165.8	1176.2	1252.6	1321.6	1315.4	1188.5	1005.1	895.3	891.9	934.2	1026.5
47.5°	1144.8	1154.2	1227.7	1330.8	1370.8	1300.5	1140.3	1032.3	1038.9	1094.3	1141.6
50°	1156.1	1160.0	1199.8	1307.3	1386.8	1382.6	1291.3	1190.9	1213.6	1282.7	1271.9
52.5°	1154.5	1164.5	1196.6	1268.8	1388.9	1433.3	1440.1	1367.9	1415.6	1494.9	1416.4
55°	933.4	951.8	1158.6	1259.1	1396.4	1483.0	1572.5	1554.3	1643.4	1735.8	1579.6
57.5°	891.3	903.0	1017.6	1279.5	1435.8	1577.8	1719.8	1759.6	1908.5	2015.9	1778.4
60°	883.0	897.4	1016.1	1304.4	1516.0	1732.4	1938.2	2008.1	2231.2	2348.7	2008.9
62.5°	857.3	872.8	1006.6	1301.2	1629.8	1946.2	2217.7	2272.3	2537.1	2651.4	2201.7
65°	775.7	790.3	928.7	1248.9	1706.5	2174.5	2548.6	2514.4	2778.6	2864.6	2297.8
66°	719.9	734.1	867.3	1187.4	1688.7	2239.2	2665.8	2589.4	2832.7	2900.0	2279.1
67.5°	617.7	628.9	748.2	1049.6	1594.0	2257.4	2764.4	2645.7	2838.4	2862.1	2171.7
70°	390.3	393.5	486.3	724.6	1206.6	1957.7	2614.3	2505.9	2604.3	2539.9	1820.6
72.5°	169.3	168.2	233.4	368.6	683.1	1313.6	2114.8	2067.7	2042.9	1895.9	1274.5
75°	94.2	95.5	121.2	171.1	277.6	645.2	1383.4	1323.8	1117.8	953.8	577.9
77.5°	75.6	77.4	100.5	121.4	124.6	225.0	647.3	526.7	317.1	254.5	160.6
80°	59.7	63.0	87.7	94.5	84.0	92.8	209.1	167.2	125.5	115.1	83.2
82.5°	47.3	49.5	75.3	71.5	58.8	62.5	100.2	97.6	81.6	74.3	48.1
85°	34.0	38.2	61.8	53.9	38.5	42.1	66.5	63.8	46.8	38.2	21.2
87.5°	13.9	18.1	43.7	35.8	21.5	19.6	33.2	31.2	22.2	16.2	10.5
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°	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2	488.2
2.5°	487.7	491.6	496.6	499.7	501.3	502.5	504.2	504.1	504.6	504.7	505.4
5°	491.0	497.4	504.7	506.7	506.7	504.9	503.1	500.2	499.1	498.7	499.1
7.5°	499.4	506.5	512.8	510.6	505.7	498.6	489.4	481.3	476.9	475.4	475.1
10°	510.1	518.7	521.2	512.7	498.4	481.3	463.0	449.7	442.1	440.0	439.3
12.5°	523.0	531.1	527.6	509.4	483.0	455.4	430.1	408.9	393.0	388.0	387.7
15°	537.3	543.6	531.1	499.4	460.1	419.3	374.3	337.7	317.9	311.6	311.1
17.5°	550.5	553.8	529.0	481.9	426.2	360.2	300.4	272.3	265.5	267.1	267.4
20°	561.9	561.9	521.9	456.8	373.0	282.3	244.6	244.1	249.0	253.8	254.8
22.5°	574.3	566.9	509.4	421.4	297.5	231.0	225.5	230.0	235.5	240.9	241.7
25°	589.7	570.9	492.1	367.6	233.9	209.8	211.9	215.6	218.4	221.8	222.3
27.5°	606.9	576.1	469.3	293.6	203.0	196.5	198.1	199.4	199.1	200.4	200.7
30°	627.4	582.1	438.0	229.5	190.2	185.2	182.3	181.1	181.1	183.2	184.1
32.5°	655.0	591.0	393.2	196.7	184.1	177.1	167.7	163.5	165.1	172.2	173.9
35°	685.2	600.6	332.5	185.5	182.8	173.4	158.8	151.0	151.2	157.8	159.9
37.5°	718.2	612.7	266.0	183.4	185.7	173.5	154.1	143.4	139.1	139.1	139.9
40°	760.5	625.2	215.3	184.9	191.8	175.5	151.7	137.4	125.1	125.5	126.1
42.5°	815.5	635.9	188.1	187.9	199.3	178.1	151.5	129.5	118.8	126.1	132.7
45°	876.7	641.2	176.1	190.7	205.3	179.7	148.9	128.2	119.6	141.3	153.9
47.5°	947.1	638.1	169.5	191.7	206.7	179.7	146.0	131.3	125.3	163.7	178.4
50°	1024.4	629.2	163.0	189.7	206.2	179.4	148.8	134.4	127.4	167.5	177.7
52.5°	1115.2	621.8	156.2	185.5	202.8	177.6	152.0	133.1	120.8	152.3	159.4
55°	1218.8	623.9	148.6	179.5	197.5	174.2	150.9	127.9	113.8	134.2	138.6
57.5°	1351.2	649.0	139.5	171.9	190.2	168.5	146.8	125.5	111.7	121.7	124.3
60°	1499.0	692.7	128.2	164.3	181.1	159.4	143.7	126.6	112.7	120.8	122.1
62.5°	1607.4	718.1	118.5	153.1	168.8	149.4	139.9	128.0	115.3	124.2	123.8
65°	1636.9	676.3	106.4	136.8	152.2	138.9	135.0	129.7	116.4	126.9	125.5
66°	1595.6	631.3	101.0	129.2	143.7	133.7	132.6	129.5	115.9	127.2	124.8
67.5°	1495.4	539.1	91.8	118.0	130.3	125.9	128.7	128.0	114.6	126.9	123.5
70°	1219.6	367.8	78.5	98.3	108.5	110.9	121.2	122.9	110.4	121.2	113.8
72.5°	852.1	224.0	69.4	76.2	87.7	94.5	111.0	115.7	104.7	105.9	98.7
75°	411.8	119.0	63.0	59.1	68.2	79.0	98.7	106.0	95.8	88.5	86.0
77.5°	128.4	72.7	53.4	47.6	53.4	63.8	82.6	92.9	85.3	74.1	73.2
80°	69.0	53.4	41.1	38.2	42.2	50.0	64.9	77.5	73.3	66.5	59.4
82.5°	45.5	34.6	30.4	29.6	32.2	38.2	48.2	64.3	64.3	57.0	41.4
85°	23.5	21.2	20.9	20.9	22.5	25.4	32.9	49.5	52.8	30.1	24.9
87.5°	11.7	12.1	11.3	11.8	12.6	12.5	15.7	24.9	29.8	18.3	15.2
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)