

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: P450241

Luminaire Tested: **GALN-SA1A-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450241  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1A-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4179 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

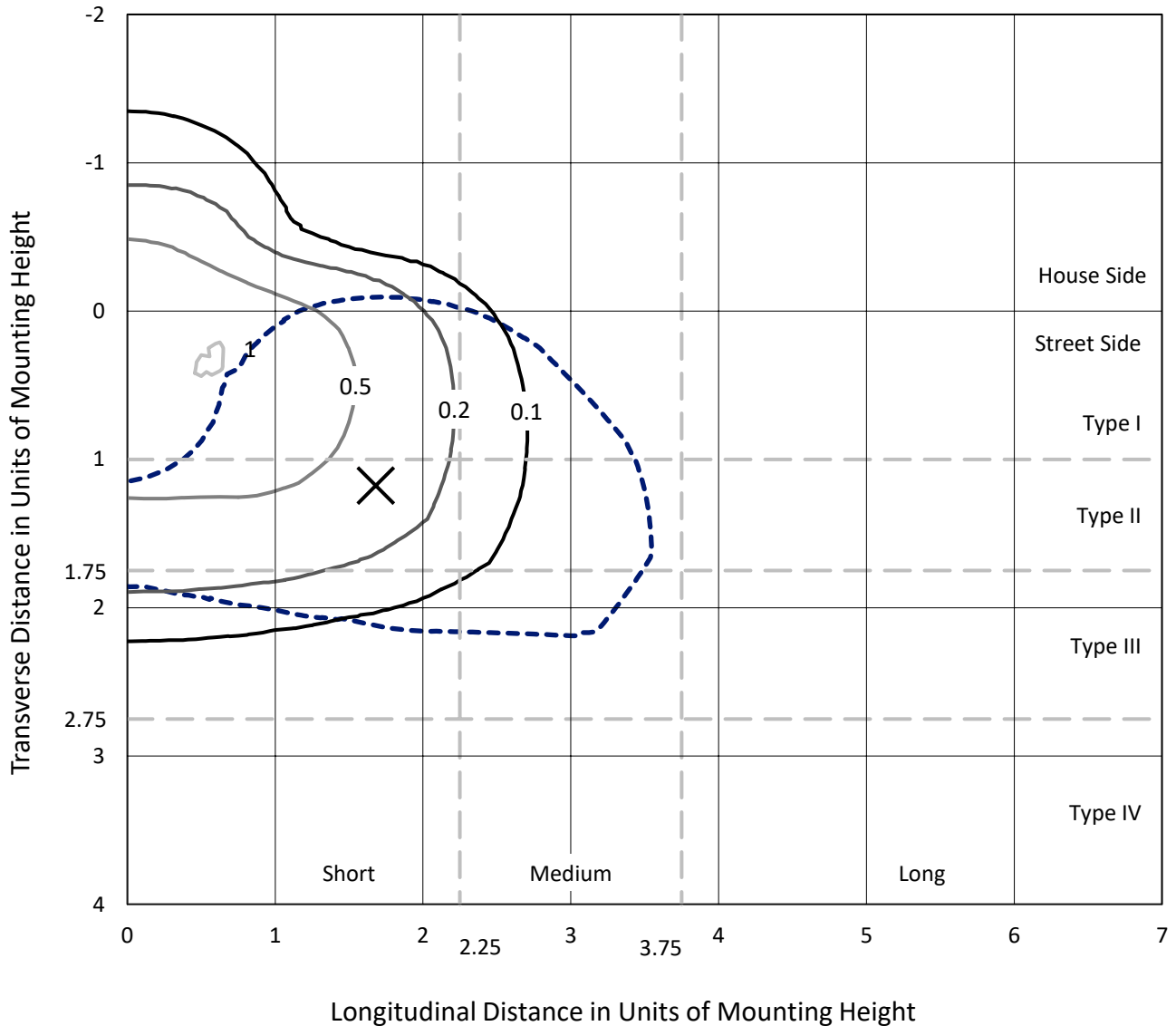
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

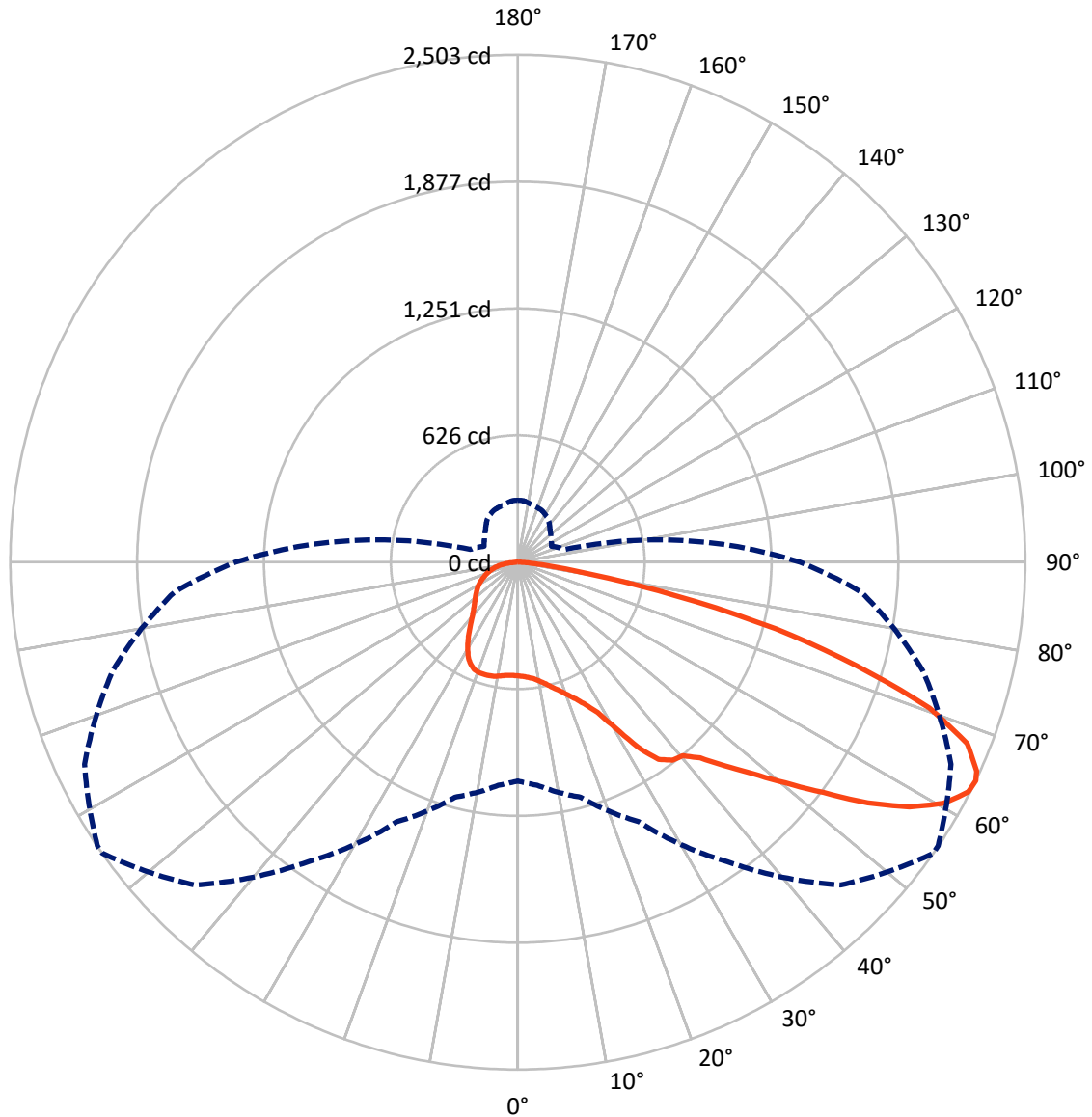
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1015.2	0.0	1015.2
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	3163.8	0.0	3163.8
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	4179.0	0.0	4179.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	1.3
10°-20°	172.1	4.1
20°-30°	306.4	7.3
30°-40°	471.4	11.3
40°-50°	668.2	16.0
50°-60°	967.2	23.1
60°-70°	1001.0	24.0
70°-80°	468.8	11.2
80°-90°	69.4	1.7
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°	4179.0	100.0
0°-180°	4179.0	100.0

**Coefficient of Utilization**



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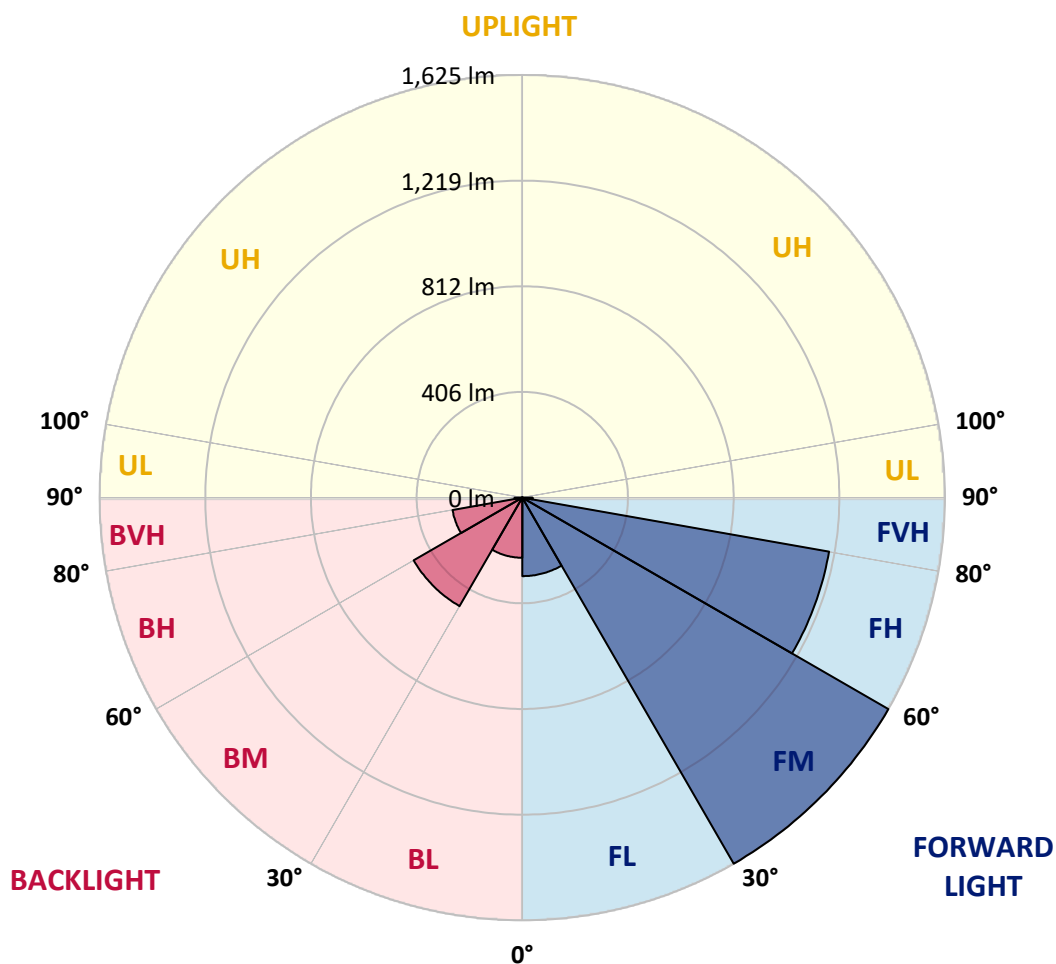
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.8	7.2			
FM (30°-60°)	1624.9	38.9			
FH (60°-80°)	1197.4	28.7			G1/1800
FVH (80°-90°)	39.7	1.0			G1/100
BL (0°-30°)	231.2	5.5	B1/500		
BM (30°-60°)	481.9	11.5	B1/1000		
BH (60°-80°)	272.3	6.5	B1/500		G1/500
BVH (80°-90°)	29.7	0.7			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°	56°	65°	75°	85°
0°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	567.0	566.8	567.5	566.8	567.2	565.6	564.9	565.4	564.7	563.5	561.4
5°	574.0	573.7	574.0	573.0	573.5	572.6	570.9	571.4	570.2	567.7	564.7
7.5°	585.9	584.9	584.9	584.7	583.8	582.4	581.2	580.7	579.6	576.3	571.6
10°	601.2	601.2	601.5	599.6	600.8	598.2	597.0	596.8	592.8	588.6	582.1
12.5°	621.5	622.7	622.0	621.0	620.6	619.6	615.7	616.6	612.2	605.0	597.0
15°	646.7	648.5	647.4	646.9	645.7	642.2	640.6	639.9	634.1	623.6	613.1
17.5°	680.0	677.6	676.7	675.5	670.6	668.1	665.3	664.8	659.7	647.4	631.0
20°	709.1	712.3	710.5	709.3	704.4	699.5	697.4	696.7	692.3	678.8	652.7
22.5°	743.8	744.5	745.2	742.4	740.1	736.3	732.6	731.4	729.8	715.8	683.9
25°	780.8	783.6	781.3	778.5	775.7	775.5	779.0	778.5	777.8	764.3	725.4
27.5°	841.2	843.7	844.4	841.4	830.7	831.6	839.5	842.1	852.8	830.4	778.7
30°	875.2	877.7	883.6	895.0	912.0	926.9	946.0	951.8	962.1	919.9	842.1
32.5°	896.1	897.1	907.5	928.7	979.8	1035.4	1087.4	1089.5	1096.0	1036.8	900.1
35°	929.2	929.9	938.3	961.6	1021.5	1114.2	1194.5	1197.1	1191.7	1073.2	927.1
37.5°	970.0	971.8	977.2	996.5	1068.0	1180.1	1239.0	1237.2	1189.6	1102.1	974.9
40°	1029.4	1029.4	1023.1	1049.2	1117.2	1217.8	1254.6	1251.4	1238.8	1185.7	1047.5
42.5°	1081.8	1080.9	1095.8	1113.5	1178.7	1276.1	1320.1	1325.5	1346.2	1290.7	1130.2
45°	1150.0	1154.2	1162.6	1194.8	1283.3	1375.5	1432.4	1437.5	1466.8	1414.4	1226.9
47.5°	1219.0	1220.4	1246.7	1289.6	1412.8	1510.4	1557.0	1565.4	1592.2	1559.1	1331.0
50°	1267.9	1281.2	1323.4	1390.9	1546.3	1674.9	1711.2	1721.2	1768.5	1716.6	1452.4
52.5°	1319.6	1332.7	1384.2	1487.1	1699.6	1843.1	1887.8	1894.5	1943.7	1875.9	1576.6
55°	1363.9	1376.0	1434.5	1572.4	1821.6	2014.7	2095.8	2087.9	2111.4	1998.7	1672.3
57.5°	1371.1	1380.9	1454.5	1626.9	1913.4	2162.0	2278.2	2282.8	2255.6	2090.4	1751.3
60°	1315.2	1335.2	1419.8	1621.1	1954.6	2264.4	2414.2	2417.5	2340.2	2137.5	1782.7
62.5°	1216.2	1214.1	1316.4	1527.4	1896.9	2287.7	2494.4	2490.9	2373.2	2114.9	1752.2
64°	1079.5	1104.6	1200.1	1412.3	1803.7	2251.9	2502.7	2500.9	2357.4	2067.8	1700.3
65°	996.1	994.7	1089.0	1318.2	1711.0	2197.8	2487.8	2485.3	2324.3	2025.7	1660.0
67.5°	719.1	722.4	815.5	1017.3	1390.9	1986.5	2390.7	2381.2	2193.9	1885.9	1506.7
70°	435.6	437.5	510.6	674.8	998.4	1605.9	2155.0	2155.4	1994.2	1677.2	1282.4
72.5°	229.4	234.3	263.7	383.2	606.4	1126.7	1748.2	1789.7	1712.1	1431.4	1013.1
75°	127.7	128.4	149.1	188.9	309.3	630.6	1314.0	1325.9	1355.5	1152.1	749.1
77.5°	97.4	98.8	105.3	122.1	168.4	292.3	795.3	854.9	955.3	812.3	427.5
80°	79.0	80.4	86.0	96.0	112.0	138.6	369.4	401.6	511.3	360.6	166.8
82.5°	61.5	60.6	67.8	74.3	81.5	82.0	151.6	167.7	208.3	155.1	72.2
85°	45.7	45.7	51.5	50.1	52.6	48.0	66.9	73.8	83.4	65.9	33.5
87.5°	18.2	20.0	33.8	30.3	23.5	18.9	24.7	26.1	28.9	25.9	14.0
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°	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7	560.7
2.5°	561.6	562.3	560.7	559.5	559.1	558.4	557.7	557.9	558.8	559.8	559.5
5°	564.4	564.7	561.9	560.5	559.5	558.6	558.6	559.3	561.2	562.6	562.6
7.5°	571.4	571.4	567.5	564.9	563.5	561.9	561.4	561.6	563.0	564.9	565.1
10°	582.4	581.4	576.3	572.3	569.8	565.8	562.3	560.5	561.2	562.3	562.3
12.5°	595.6	593.1	586.6	581.2	574.9	567.5	560.2	556.5	556.3	557.4	557.0
15°	609.8	607.1	598.0	588.2	577.2	566.3	557.7	552.3	548.1	547.0	549.5
17.5°	626.4	620.6	608.0	594.5	578.2	564.0	550.4	539.5	532.0	529.9	530.6
20°	646.4	638.7	621.7	600.5	577.5	555.6	534.6	519.9	507.8	504.1	504.6
22.5°	674.1	660.9	635.9	603.6	571.6	539.7	510.6	491.5	476.8	471.0	474.5
25°	705.6	691.1	649.4	602.9	556.5	514.3	482.2	457.3	444.0	435.4	437.2
27.5°	748.9	723.3	663.9	596.6	534.8	483.4	446.1	422.6	410.4	406.0	408.1
30°	804.4	765.0	679.5	579.6	500.6	444.2	409.7	394.4	387.2	381.6	383.4
32.5°	844.4	794.3	683.0	550.9	463.6	408.6	385.1	373.6	365.7	360.4	361.5
35°	873.1	819.3	681.4	515.7	424.9	379.2	365.5	356.2	343.4	331.7	329.6
37.5°	911.5	850.5	669.5	477.3	386.7	359.4	349.6	332.4	314.0	298.4	297.7
40°	970.4	887.0	644.1	432.1	354.1	344.8	332.9	310.5	290.7	278.1	277.2
42.5°	1031.2	920.8	609.6	384.6	327.3	329.4	314.9	292.8	280.7	272.5	271.6
45°	1105.6	957.4	572.3	343.4	307.5	314.9	299.3	286.5	279.3	273.9	272.5
47.5°	1185.9	994.9	530.4	306.3	290.7	301.7	292.8	287.0	283.0	279.3	277.7
50°	1272.6	1036.8	491.0	276.5	275.6	287.9	292.1	290.0	287.7	286.5	285.1
52.5°	1367.6	1079.7	458.0	255.5	262.3	278.1	292.3	294.0	294.0	293.3	292.3
55°	1431.9	1109.5	424.4	238.5	248.8	270.2	291.9	298.2	300.5	299.6	298.6
57.5°	1479.4	1125.8	382.3	223.9	237.4	262.5	289.3	298.6	301.0	302.1	301.7
60°	1489.2	1110.7	327.1	208.5	225.0	251.3	280.0	291.6	294.7	301.9	302.6
62.5°	1445.2	1064.1	272.1	193.3	209.9	234.3	267.4	283.7	289.8	301.0	302.1
64°	1391.1	1011.9	241.6	183.8	200.1	224.8	261.1	281.6	289.5	304.5	305.4
65°	1351.5	973.9	222.5	177.7	193.8	218.5	257.6	282.3	291.6	309.8	311.2
67.5°	1205.7	843.3	184.0	163.5	178.9	207.8	258.3	288.2	291.2	311.9	311.7
70°	997.7	671.3	154.2	150.5	164.5	199.2	255.5	278.8	279.1	292.8	289.5
72.5°	747.1	496.2	133.7	137.0	148.4	178.7	241.3	266.3	262.3	264.2	260.9
75°	513.2	328.2	115.1	122.5	131.6	157.9	221.3	241.8	235.5	233.2	230.8
77.5°	273.9	181.5	95.7	108.3	114.4	136.5	193.1	212.9	206.4	197.3	194.3
80°	110.9	85.5	77.1	89.7	93.2	109.9	160.7	173.1	168.2	152.3	147.2
82.5°	55.7	51.2	60.6	70.6	70.8	78.5	119.5	131.1	120.2	100.9	96.4
85°	29.1	30.0	41.7	49.6	43.8	42.4	71.7	79.4	72.9	63.4	57.1
87.5°	10.5	12.1	21.9	21.7	15.4	8.2	15.8	7.7	4.2	2.6	3.3
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)