

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: P450194

Luminaire Tested: **GALN-SA1A-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3908 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

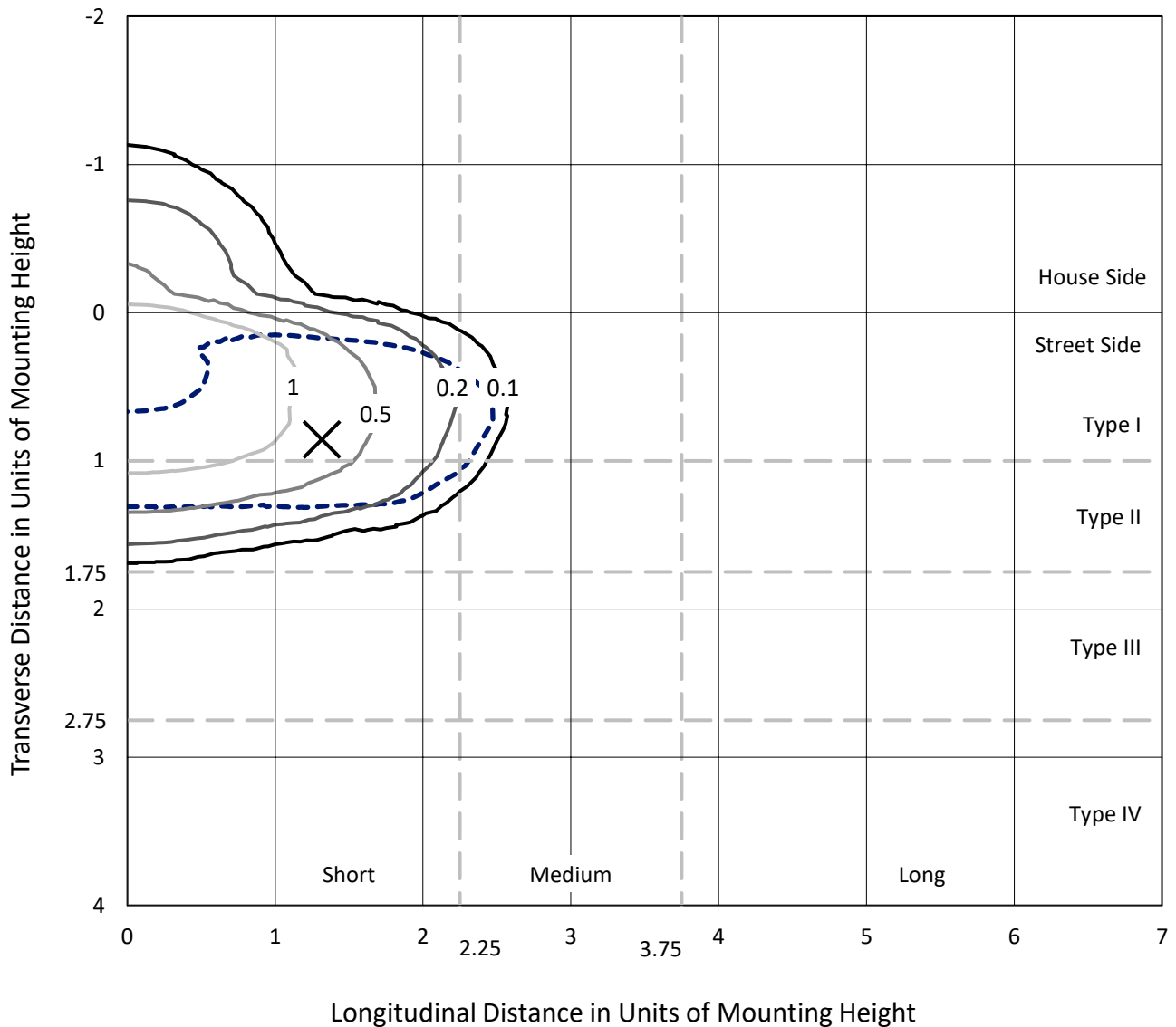
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

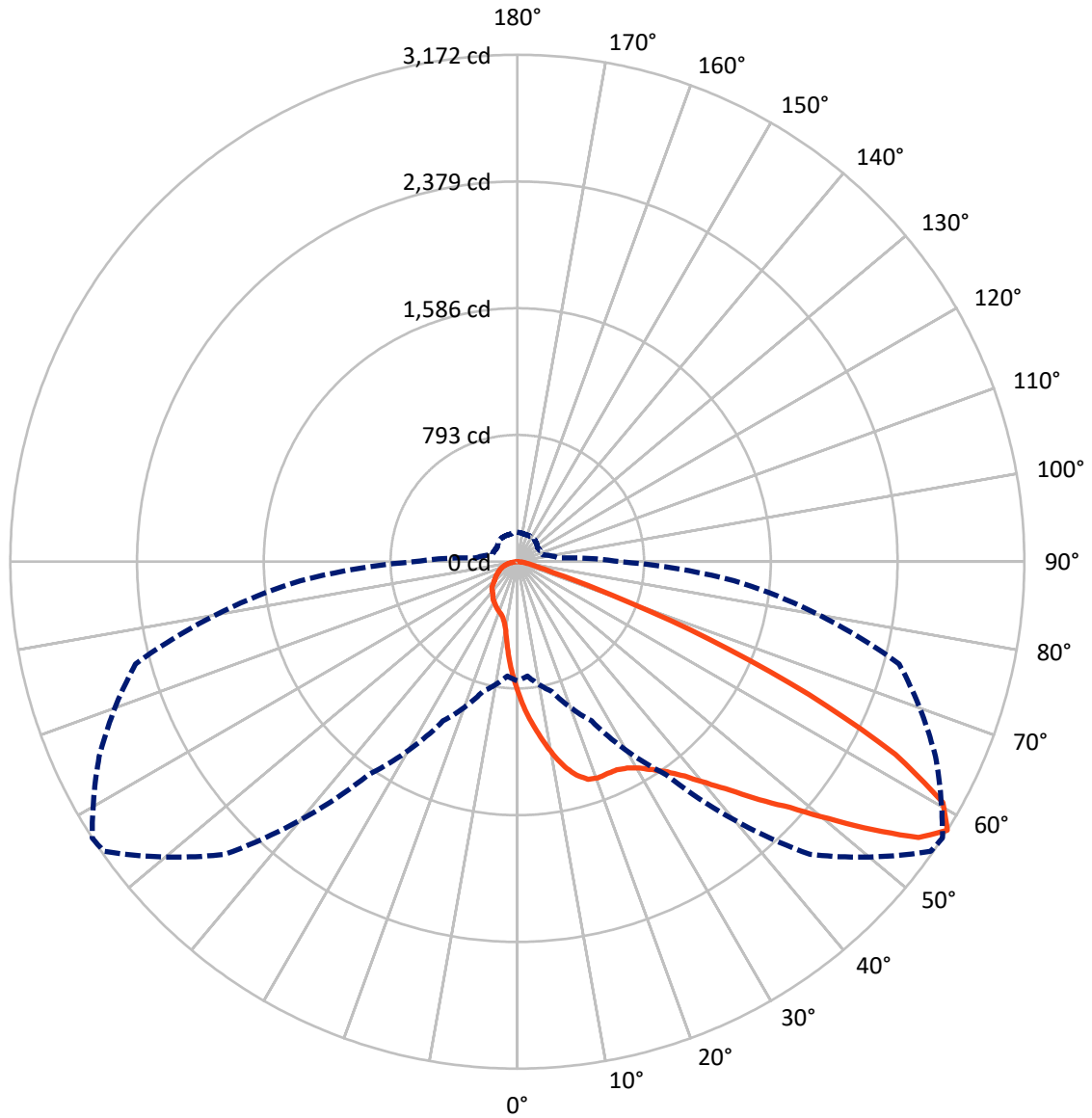
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	594.3	0.0	594.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	3313.7	0.0	3313.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	3908.0	0.0	3908.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.9	2.0
10°-20°	232.5	6.0
20°-30°	386.1	9.9
30°-40°	581.7	14.9
40°-50°	873.3	22.3
50°-60°	978.9	25.0
60°-70°	572.9	14.7
70°-80°	169.5	4.3
80°-90°	34.3	0.9
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°	3908.0	100.0
0°-180°	3908.0	100.0

**Coefficient of Utilization**



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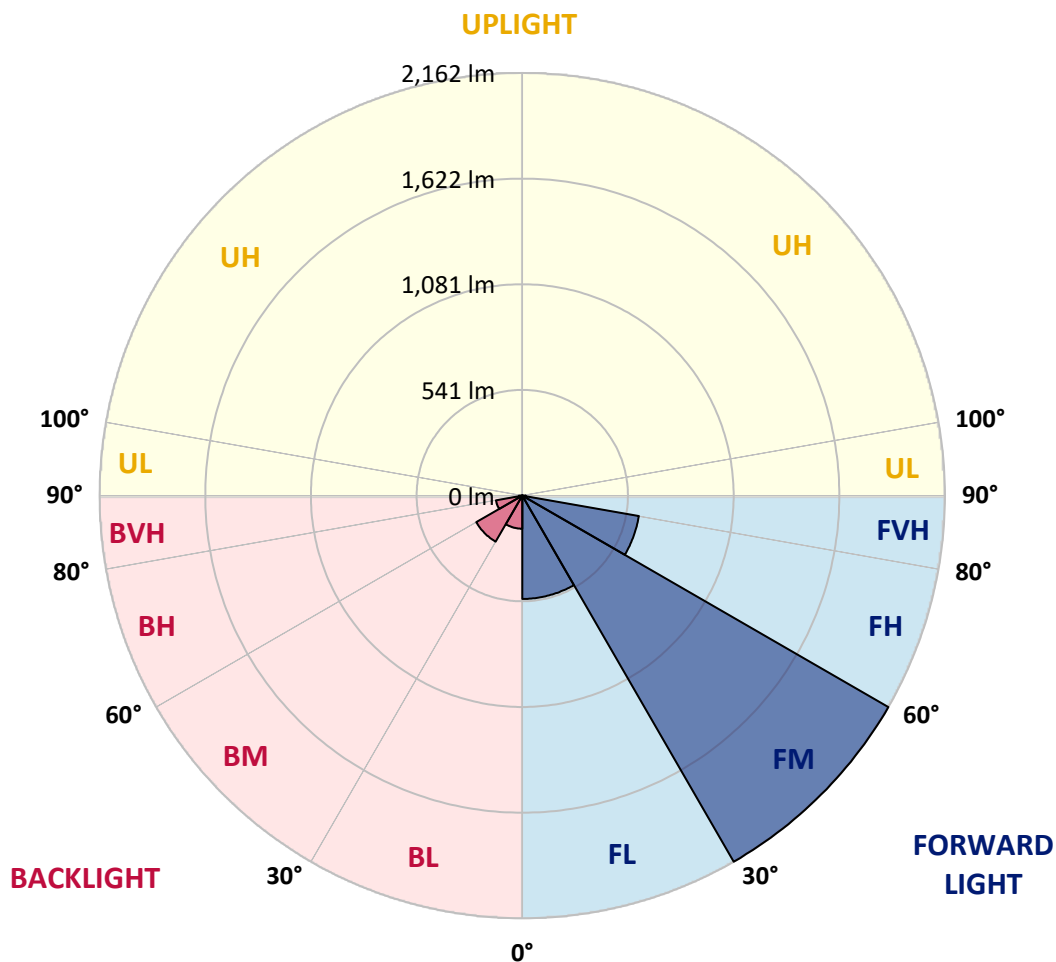
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.3	13.5			
FM (30°-60°)	2162.1	55.3			
FH (60°-80°)	605.6	15.5			G0/660
FVH (80°-90°)	17.8	0.5			G1/100
BL (0°-30°)	169.3	4.3	B1/500		
BM (30°-60°)	271.7	7.0	B1/1000		
BH (60°-80°)	136.7	3.5	B1/500		G1/500
BVH (80°-90°)	16.5	0.4			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	1020.2	1009.1	1000.3	992.6	982.5	955.4	928.2	927.8	906.2	872.8	838.6
5°	1186.4	1171.4	1173.4	1149.4	1125.4	1086.1	1028.5	1025.5	979.5	917.1	853.5
7.5°	1294.6	1294.9	1288.9	1275.2	1249.3	1204.6	1139.3	1124.6	1060.6	965.9	870.7
10°	1289.1	1294.9	1304.9	1316.7	1324.6	1302.6	1243.1	1225.1	1141.9	1024.9	889.7
12.5°	1215.1	1224.1	1238.4	1267.9	1315.6	1352.0	1331.7	1317.1	1236.0	1083.7	910.7
15°	1168.9	1174.2	1182.1	1202.0	1253.4	1340.4	1393.0	1385.3	1324.8	1150.2	934.2
17.5°	1154.7	1160.1	1162.7	1174.9	1211.4	1300.6	1417.2	1430.9	1403.5	1211.4	957.9
20°	1168.9	1171.4	1171.4	1178.7	1207.4	1277.3	1416.2	1443.7	1468.1	1284.8	980.2
22.5°	1205.9	1206.9	1205.4	1208.0	1229.4	1283.7	1406.1	1440.3	1520.3	1347.1	997.5
25°	1266.0	1267.7	1257.9	1251.9	1267.5	1312.0	1411.7	1443.1	1561.2	1406.5	1009.1
27.5°	1334.2	1336.4	1324.4	1310.5	1317.7	1346.8	1433.5	1461.7	1591.8	1465.1	1016.3
30°	1417.9	1418.7	1398.6	1381.9	1377.2	1398.8	1470.7	1497.0	1629.9	1534.2	1027.2
32.5°	1503.4	1509.8	1484.0	1460.4	1452.5	1459.2	1525.7	1551.1	1675.2	1608.5	1044.8
35°	1619.8	1620.9	1589.9	1561.2	1535.1	1543.6	1596.1	1614.5	1737.9	1694.2	1069.6
37.5°	1765.1	1774.9	1732.1	1678.6	1646.5	1634.1	1681.2	1701.3	1825.8	1799.5	1107.0
40°	1926.4	1930.0	1893.4	1860.0	1801.4	1765.5	1798.0	1819.8	1934.3	1925.1	1150.5
42.5°	2027.8	2035.7	2038.4	2035.0	1991.0	1930.6	1943.0	1953.3	2062.6	2042.9	1195.0
45°	2062.0	2073.7	2113.5	2197.8	2202.5	2143.1	2114.2	2124.0	2202.5	2161.9	1237.5
47.5°	2005.3	2025.4	2098.8	2271.6	2401.0	2405.5	2318.5	2296.9	2330.0	2260.5	1268.3
50°	1858.8	1863.0	1975.3	2225.6	2494.1	2656.5	2566.4	2526.2	2451.1	2333.4	1289.5
52.5°	1632.0	1636.9	1731.0	2011.9	2436.8	2831.9	2856.5	2784.6	2574.1	2390.1	1303.4
55°	1211.4	1239.9	1343.4	1614.9	2165.1	2815.4	3087.1	3046.2	2722.8	2435.1	1325.2
57.5°	744.9	718.8	841.6	1098.7	1628.4	2589.1	3158.3	3171.6	2886.4	2472.7	1361.8
60°	342.7	347.8	398.5	566.7	992.6	2025.4	2974.8	3058.6	2976.9	2471.4	1371.0
62.5°	236.2	231.5	218.6	248.8	452.7	1281.0	2512.7	2654.8	2795.5	2394.6	1334.4
65°	211.1	206.4	181.6	173.3	207.9	558.3	1826.7	2005.9	2353.8	2200.8	1243.3
67.5°	197.2	190.8	165.1	148.9	148.5	222.3	1077.1	1292.9	1745.8	1860.7	1077.3
70°	182.7	177.6	152.1	134.1	126.4	139.7	473.4	619.7	1133.6	1340.9	839.2
72.5°	168.1	162.2	139.3	120.0	110.0	104.6	181.4	236.0	640.5	803.9	514.5
75°	147.0	144.0	124.5	108.7	97.8	84.5	115.1	131.3	306.3	369.2	258.2
77.5°	128.6	125.4	110.6	95.0	87.1	68.7	81.7	89.2	129.2	149.7	116.6
80°	94.1	97.3	93.3	83.9	77.7	53.9	55.0	61.2	76.8	84.9	71.2
82.5°	59.7	65.7	71.9	64.6	58.8	42.6	38.1	40.4	52.4	55.6	31.7
85°	25.0	25.5	41.7	39.4	33.6	25.2	22.9	24.2	28.0	29.3	14.8
87.5°	9.6	9.4	14.8	13.7	10.5	7.3	7.3	8.1	11.1	10.3	4.7
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°	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0	821.0
2.5°	823.8	808.6	778.5	741.0	713.6	682.8	655.7	636.2	628.9	625.5	619.1
5°	823.2	793.2	730.8	665.3	612.7	558.8	513.2	483.7	481.1	461.4	459.5
7.5°	823.4	777.6	678.1	581.9	501.6	446.5	408.8	399.0	387.2	384.2	385.7
10°	824.0	757.7	621.7	499.3	421.6	385.5	371.4	367.5	367.9	369.2	369.4
12.5°	824.9	738.5	563.0	436.6	376.7	361.7	360.2	363.7	367.3	370.1	370.7
15°	825.9	716.4	505.9	386.1	354.3	353.0	357.9	363.7	368.8	372.9	373.5
17.5°	824.7	690.7	458.0	355.1	341.8	348.0	356.2	363.5	368.2	372.0	372.4
20°	821.7	662.1	411.8	333.3	334.1	344.2	353.0	359.8	364.9	366.9	368.4
22.5°	810.1	627.9	371.6	316.4	324.9	338.8	349.3	353.4	347.6	343.6	344.6
25°	790.4	583.4	334.1	302.7	316.6	331.4	342.1	332.2	327.5	325.8	326.7
27.5°	765.8	534.6	305.9	288.4	305.9	323.0	320.0	318.3	316.2	313.4	314.0
30°	739.3	486.9	281.9	277.2	294.4	304.2	305.5	308.3	305.9	301.6	303.3
32.5°	714.7	442.0	263.8	267.8	286.2	284.7	294.4	297.6	286.7	272.3	273.0
35°	693.7	400.2	250.1	258.6	272.3	273.0	282.6	271.5	259.7	252.9	253.3
37.5°	677.9	367.7	241.1	250.7	254.6	262.7	257.6	251.8	250.3	245.6	245.8
40°	668.5	339.3	235.3	244.5	243.9	249.4	233.0	238.7	240.9	239.4	239.6
42.5°	659.1	319.2	229.3	236.0	235.7	224.8	221.2	226.1	231.7	232.3	231.9
45°	651.6	303.6	223.1	222.9	227.2	210.1	209.0	212.0	219.9	223.8	223.5
47.5°	643.3	290.5	213.7	207.7	209.0	200.9	199.2	200.4	210.1	216.3	218.0
50°	632.8	277.5	201.9	193.8	188.5	192.3	192.7	193.0	202.6	209.6	211.1
52.5°	624.4	267.6	188.5	182.5	176.1	184.6	187.8	188.2	194.0	199.8	200.9
55°	629.4	262.1	175.2	170.9	165.1	176.7	182.9	183.8	185.0	189.3	190.0
57.5°	644.1	263.3	164.5	158.9	154.7	167.3	177.8	178.4	177.6	182.7	183.5
60°	648.6	262.7	156.6	145.7	143.1	157.2	170.3	171.6	171.4	178.8	180.3
62.5°	629.8	254.6	148.7	134.6	132.8	147.0	159.8	164.9	166.0	176.7	178.6
65°	585.5	237.9	138.2	122.8	122.8	136.1	149.7	156.8	159.8	174.1	176.3
67.5°	527.1	218.2	127.5	112.7	112.3	125.6	139.0	146.3	151.0	170.5	171.8
70°	437.5	191.7	114.2	101.8	101.8	113.8	126.0	134.8	141.6	163.6	163.6
72.5°	299.7	159.4	98.2	89.4	89.6	100.8	113.2	123.0	131.1	150.0	150.4
75°	189.5	124.5	80.6	76.2	77.0	87.5	100.3	110.6	126.9	148.2	148.9
77.5°	100.8	87.5	64.2	63.1	64.2	73.8	88.1	102.3	127.3	128.6	126.4
80°	65.2	62.0	50.7	48.6	49.0	59.5	78.5	97.1	102.3	103.5	98.8
82.5°	35.5	39.4	35.9	33.8	33.8	46.4	67.0	77.2	73.4	61.0	58.2
85°	15.2	18.4	18.6	16.3	15.6	28.7	44.9	42.1	39.1	37.4	37.0
87.5°	4.3	6.0	6.0	4.5	3.4	7.9	9.0	2.6	0.0	0.2	0.4
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)