

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: P450442

Luminaire Tested: **GALN-SA1B-727-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-727-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4907 lumens  
Efficiency: N/A  
Efficacy: 111.5 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

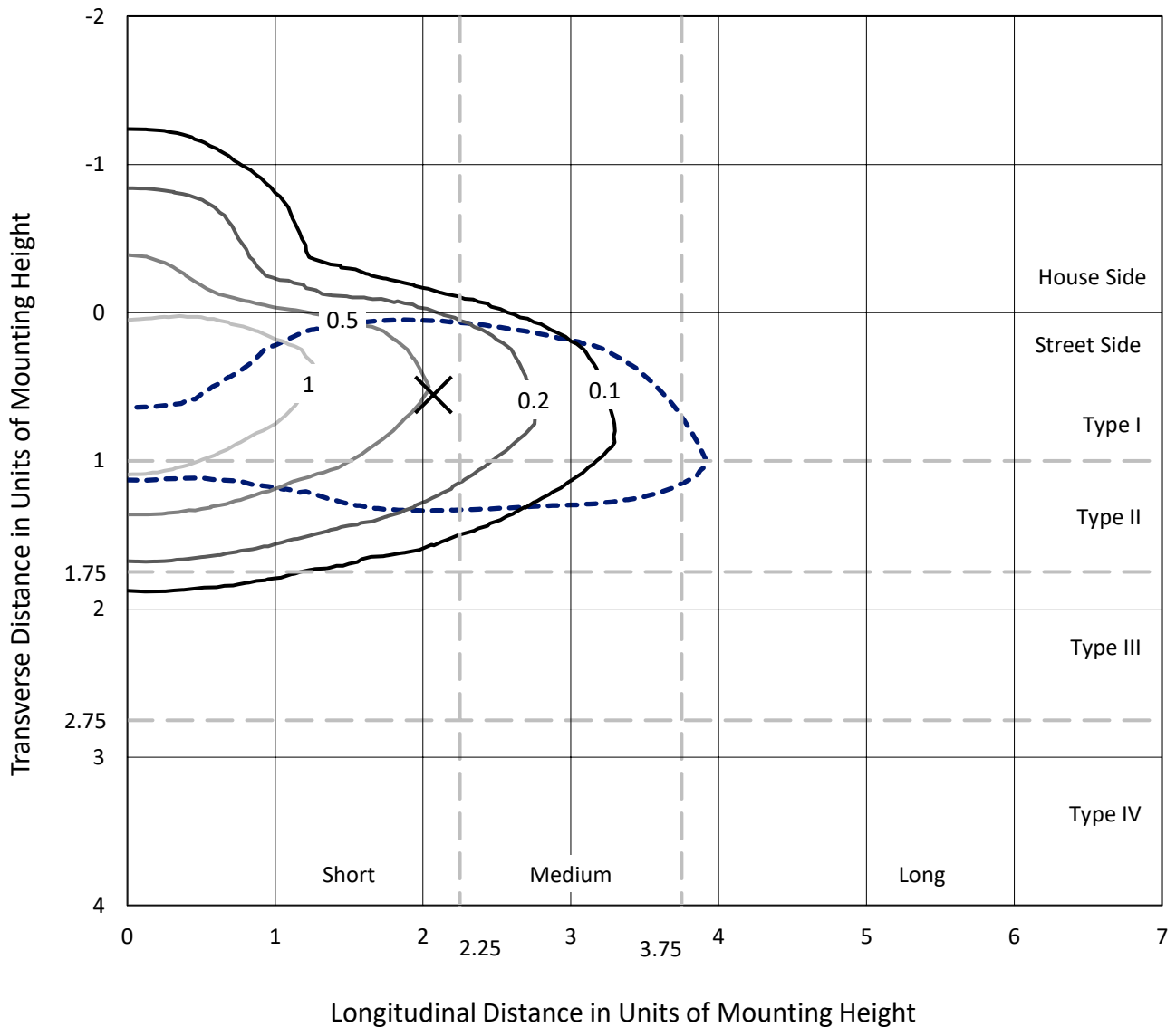
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

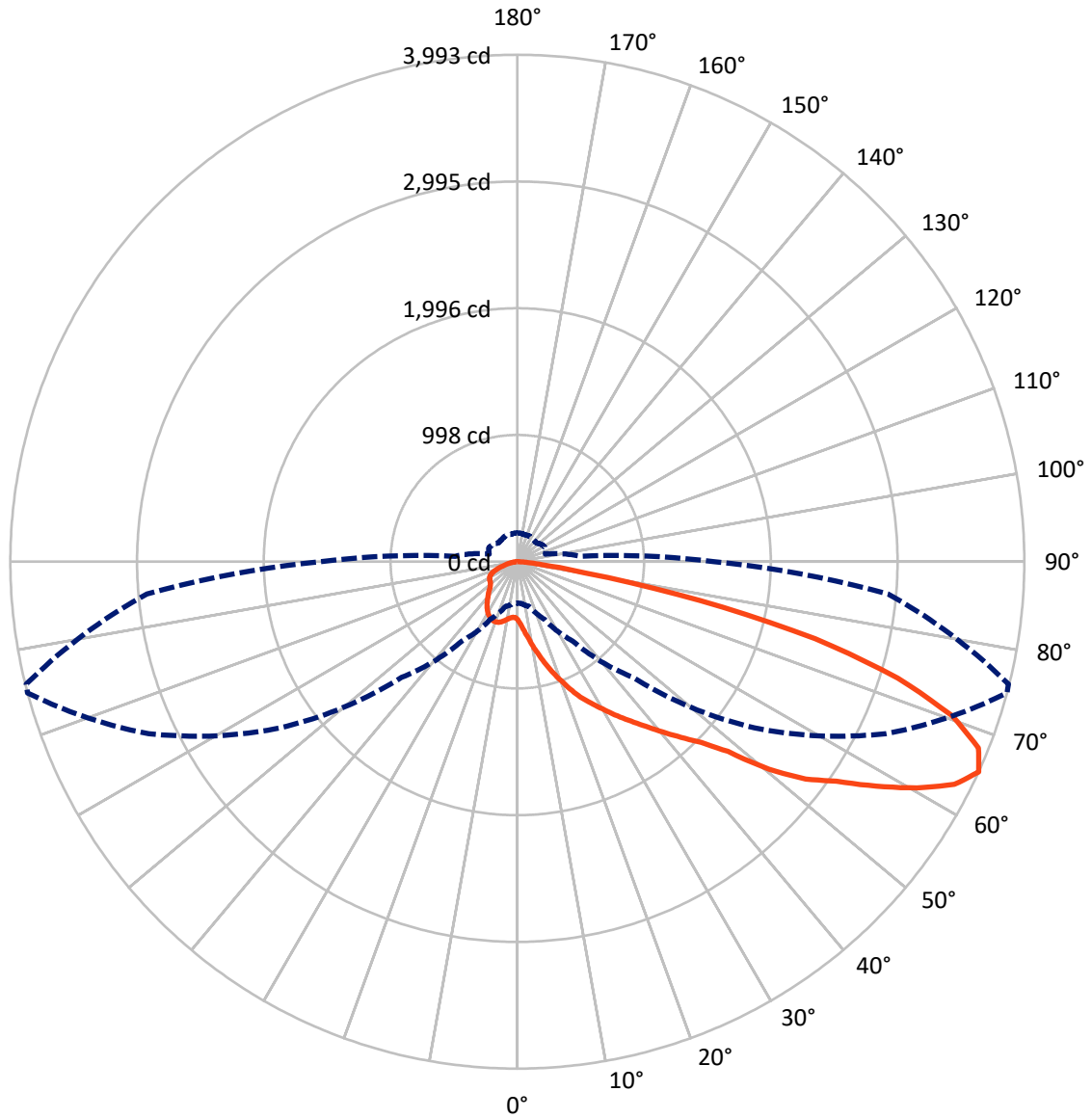
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	824.9	0.0	824.9
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4082.1	0.0	4082.1
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	4907.0	0.0	4907.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.4	1.1
10°-20°	217.0	4.4
20°-30°	419.1	8.5
30°-40°	680.8	13.9
40°-50°	936.4	19.1
50°-60°	1105.6	22.5
60°-70°	968.7	19.7
70°-80°	462.5	9.4
80°-90°	61.5	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°	4907.0	100.0
0°-180°	4907.0	100.0

**Coefficient of Utilization**



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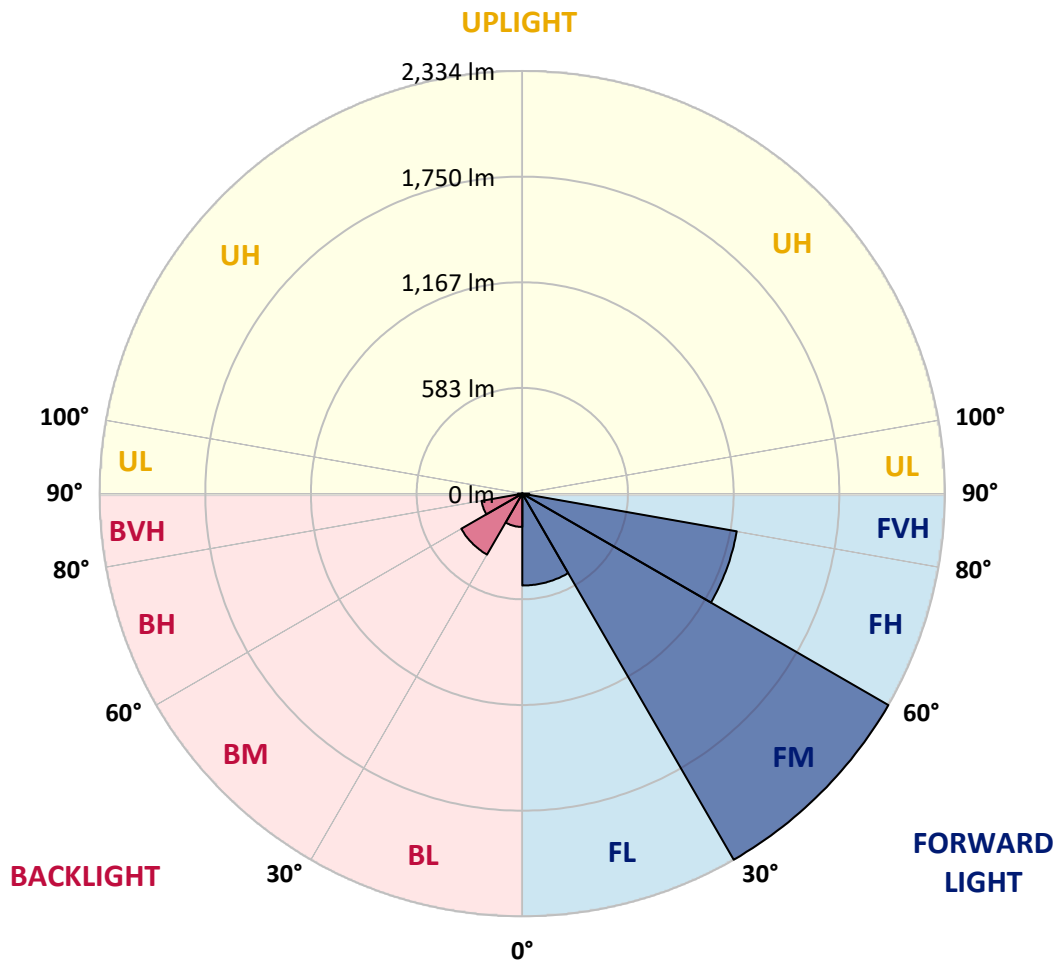
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.3	10.3			
FM	(30°-60°)	2333.9	47.6			
FH	(60°-80°)	1202.4	24.5			G1/1800
FVH	(80°-90°)	38.5	0.8			G1/100
BL	(0°-30°)	184.2	3.8	B1/500		
BM	(30°-60°)	388.9	7.9	B1/1000		
BH	(60°-80°)	228.7	4.7	B1/500		G1/500
BVH	(80°-90°)	23.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
2.5°	605.8	601.8	597.5	585.8	573.3	559.2	539.0	519.5	493.7	492.9	473.8
5°	773.7	771.0	752.2	741.2	712.2	673.6	640.9	590.1	543.0	537.4	500.1
7.5°	928.1	917.7	910.5	890.8	862.1	812.6	749.2	680.6	601.8	594.3	532.6
10°	1044.4	1043.3	1039.6	1022.6	1001.0	951.8	881.5	783.0	676.3	661.7	572.0
12.5°	1131.4	1132.2	1131.7	1131.4	1116.0	1074.2	998.1	894.3	751.6	741.2	617.5
15°	1188.6	1196.6	1199.8	1213.1	1214.5	1186.5	1121.0	1001.8	836.5	821.1	666.5
17.5°	1226.4	1230.4	1245.3	1268.0	1286.3	1281.3	1223.0	1101.3	923.3	897.5	717.3
20°	1262.6	1269.6	1281.0	1311.9	1344.3	1359.2	1318.3	1203.3	1009.3	992.8	773.4
22.5°	1338.0	1347.8	1351.8	1367.5	1395.2	1421.5	1402.9	1301.0	1103.5	1081.1	833.1
25°	1465.4	1475.8	1464.6	1460.9	1470.0	1483.0	1479.0	1393.1	1192.4	1160.4	889.5
27.5°	1631.5	1632.9	1611.0	1590.3	1567.9	1561.3	1549.0	1474.8	1269.6	1242.9	946.2
30°	1809.8	1803.5	1767.3	1729.7	1691.9	1654.7	1619.5	1553.5	1355.5	1324.9	1001.8
32.5°	1975.4	1971.9	1931.7	1873.5	1809.6	1774.5	1703.4	1633.1	1447.6	1418.1	1059.0
35°	2099.4	2104.5	2060.3	1996.7	1927.0	1895.8	1806.1	1716.7	1542.9	1510.7	1121.3
37.5°	2187.5	2184.9	2145.7	2090.6	2029.4	2002.3	1926.2	1808.0	1645.4	1614.5	1189.4
40°	2218.9	2217.3	2188.3	2148.1	2109.3	2099.7	2051.8	1906.5	1762.7	1726.5	1271.4
42.5°	2199.0	2202.4	2183.3	2172.4	2165.2	2172.1	2176.6	2035.5	1890.8	1857.5	1360.3
45°	2137.8	2135.9	2133.2	2151.1	2191.5	2237.0	2300.1	2157.4	2030.0	2003.3	1479.6
47.5°	2028.4	2041.7	2048.3	2097.6	2185.9	2293.7	2442.2	2320.9	2232.0	2208.8	1661.3
50°	1875.3	1886.0	1925.4	2012.9	2144.7	2315.0	2581.2	2588.1	2568.9	2525.5	1858.8
52.5°	1636.3	1652.8	1734.0	1894.5	2060.0	2306.2	2665.3	2817.2	2842.5	2810.1	2053.4
55°	1368.8	1392.0	1477.7	1688.2	1943.5	2258.3	2723.3	2950.1	3050.9	3020.9	2240.8
57.5°	1106.9	1131.4	1219.5	1423.4	1740.1	2152.4	2761.4	3098.0	3334.6	3295.5	2473.9
60°	829.6	855.2	930.7	1140.7	1450.5	1945.3	2735.5	3226.3	3618.1	3601.3	2707.3
62.5°	535.2	563.4	629.2	803.0	1114.9	1662.4	2597.4	3297.1	3863.5	3843.3	2877.7
65°	326.0	329.2	365.4	498.5	763.1	1287.1	2281.5	3203.2	3992.8	3986.7	2929.6
67.5°	210.8	215.9	232.4	298.6	457.5	894.0	1824.2	2893.1	3917.3	3915.1	2822.3
70°	178.1	179.7	187.1	201.5	265.9	542.2	1281.0	2398.8	3630.1	3630.1	2564.4
72.5°	159.2	161.3	164.0	168.5	189.8	307.1	764.4	1867.3	3134.2	3155.0	2182.7
75°	144.5	144.0	145.6	146.4	161.8	200.7	395.2	1381.1	2424.7	2383.1	1580.7
77.5°	123.8	124.6	123.8	127.2	142.9	152.8	200.7	926.7	1469.4	1415.7	793.4
80°	101.7	103.0	104.3	106.5	122.2	116.0	120.6	422.4	543.5	532.0	245.1
82.5°	76.4	78.2	80.4	85.4	96.1	76.7	76.1	180.5	196.2	179.7	90.2
85°	30.9	36.5	55.1	60.2	60.4	42.1	46.8	75.3	80.1	78.2	35.4
87.5°	7.2	8.5	17.8	26.9	24.8	15.7	17.3	24.5	27.9	25.8	12.0
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°	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9	455.9
2.5°	465.0	455.7	439.7	427.4	418.7	410.9	406.2	403.2	402.2	401.9	402.2
5°	480.7	464.2	438.9	422.9	414.1	409.1	406.2	405.9	406.2	406.4	405.6
7.5°	502.2	478.5	445.5	430.6	424.0	420.3	418.9	418.4	418.7	418.4	418.4
10°	531.0	498.5	458.6	443.1	437.6	433.3	431.2	429.8	428.8	427.7	427.2
12.5°	562.7	520.6	472.7	457.8	449.8	443.1	438.4	434.9	432.5	430.1	429.6
15°	598.0	544.0	488.4	467.6	456.2	446.3	438.1	432.5	428.2	424.8	424.5
17.5°	631.9	566.1	499.0	472.2	455.4	441.5	430.6	422.9	417.6	413.1	412.5
20°	668.0	587.1	503.8	469.2	447.4	430.6	416.3	406.9	400.8	395.8	395.0
22.5°	704.5	605.0	503.3	459.9	433.6	413.9	398.7	388.9	381.7	376.6	374.7
25°	739.4	619.3	496.6	445.0	414.4	393.9	378.5	369.4	363.0	356.9	356.9
27.5°	770.8	627.9	484.1	426.9	394.7	373.1	360.9	352.7	346.8	342.8	340.4
30°	801.7	631.9	467.1	404.0	373.9	355.6	345.7	340.9	335.6	331.1	330.6
32.5°	829.3	631.1	445.8	381.7	354.3	341.2	337.2	333.5	327.9	321.5	319.9
35°	856.2	625.7	420.5	357.2	337.7	332.7	333.8	328.4	318.3	310.3	309.0
37.5°	885.5	616.1	392.8	337.2	323.9	328.7	331.4	319.7	303.1	290.6	287.7
40°	919.3	605.2	364.1	317.3	313.0	325.0	325.0	303.4	280.8	273.1	270.9
42.5°	959.0	596.2	340.1	300.5	303.9	315.9	314.6	281.9	272.5	268.5	267.5
45°	1021.8	593.0	315.4	285.8	296.5	305.3	294.4	274.4	269.1	265.9	264.8
47.5°	1121.0	596.7	293.6	274.9	288.0	294.6	271.7	269.3	265.6	261.1	260.6
50°	1213.1	593.3	278.1	268.8	280.5	281.9	262.4	263.2	261.1	256.0	255.0
52.5°	1288.5	582.3	268.3	265.6	274.1	259.5	253.6	256.6	255.8	249.4	248.3
55°	1371.2	575.7	263.5	265.6	269.9	240.1	245.4	249.7	248.6	244.1	243.8
57.5°	1471.6	577.0	260.0	266.4	265.6	230.2	237.1	242.2	241.9	240.6	240.6
60°	1574.3	577.6	254.7	266.2	260.6	222.5	228.6	235.8	236.3	237.1	237.1
62.5°	1608.4	554.4	244.3	261.4	249.4	215.1	220.6	230.5	230.0	232.1	232.4
65°	1544.8	490.3	228.9	250.5	235.0	209.7	214.5	223.6	220.6	226.2	227.3
67.5°	1406.1	405.6	204.9	230.8	219.0	204.1	210.5	214.0	208.7	219.6	219.8
70°	1215.3	316.7	174.6	202.8	200.9	198.3	207.3	202.0	194.6	207.9	205.2
72.5°	1016.2	241.9	139.5	165.8	176.7	189.5	201.7	186.6	176.2	180.2	175.4
75°	763.3	178.9	112.1	129.9	147.2	177.0	196.7	167.9	152.0	148.2	147.2
77.5°	389.1	116.8	83.8	97.1	110.5	160.0	189.8	146.1	125.9	120.0	117.4
80°	138.9	72.7	59.1	67.1	74.5	137.6	165.8	120.8	97.7	96.6	97.7
82.5°	64.4	46.8	39.7	43.9	44.2	91.8	126.4	90.2	74.3	112.8	95.3
85°	27.7	23.4	22.4	21.8	20.2	41.0	71.1	48.4	75.6	33.8	31.1
87.5°	8.3	9.3	8.3	6.1	4.5	4.5	7.2	2.7	1.9	1.3	1.3
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)