

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: P528161

Luminaire Tested: **GALN-SA3B-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8380 lumens  
Efficiency: N/A  
Efficacy: 69.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

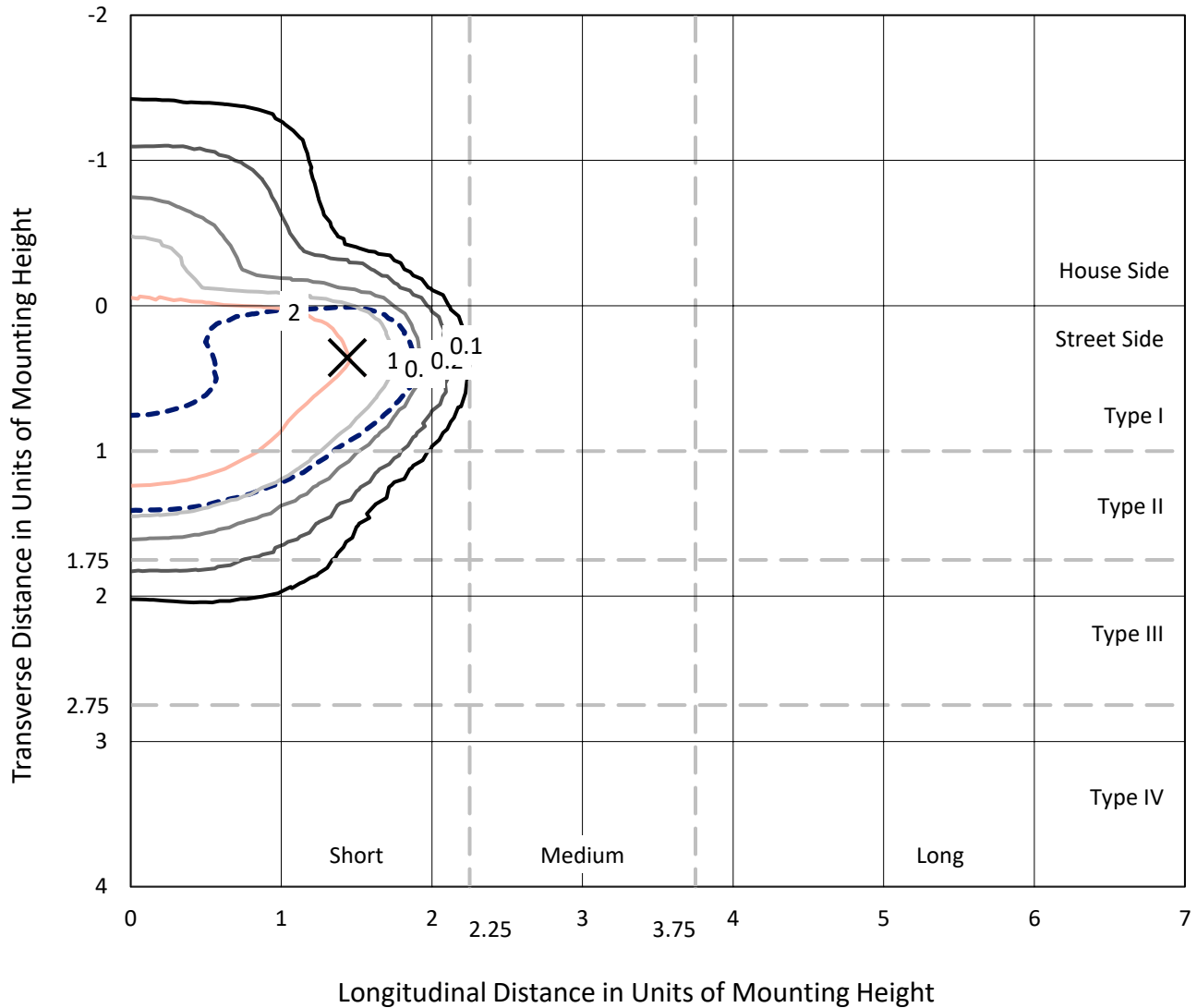
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

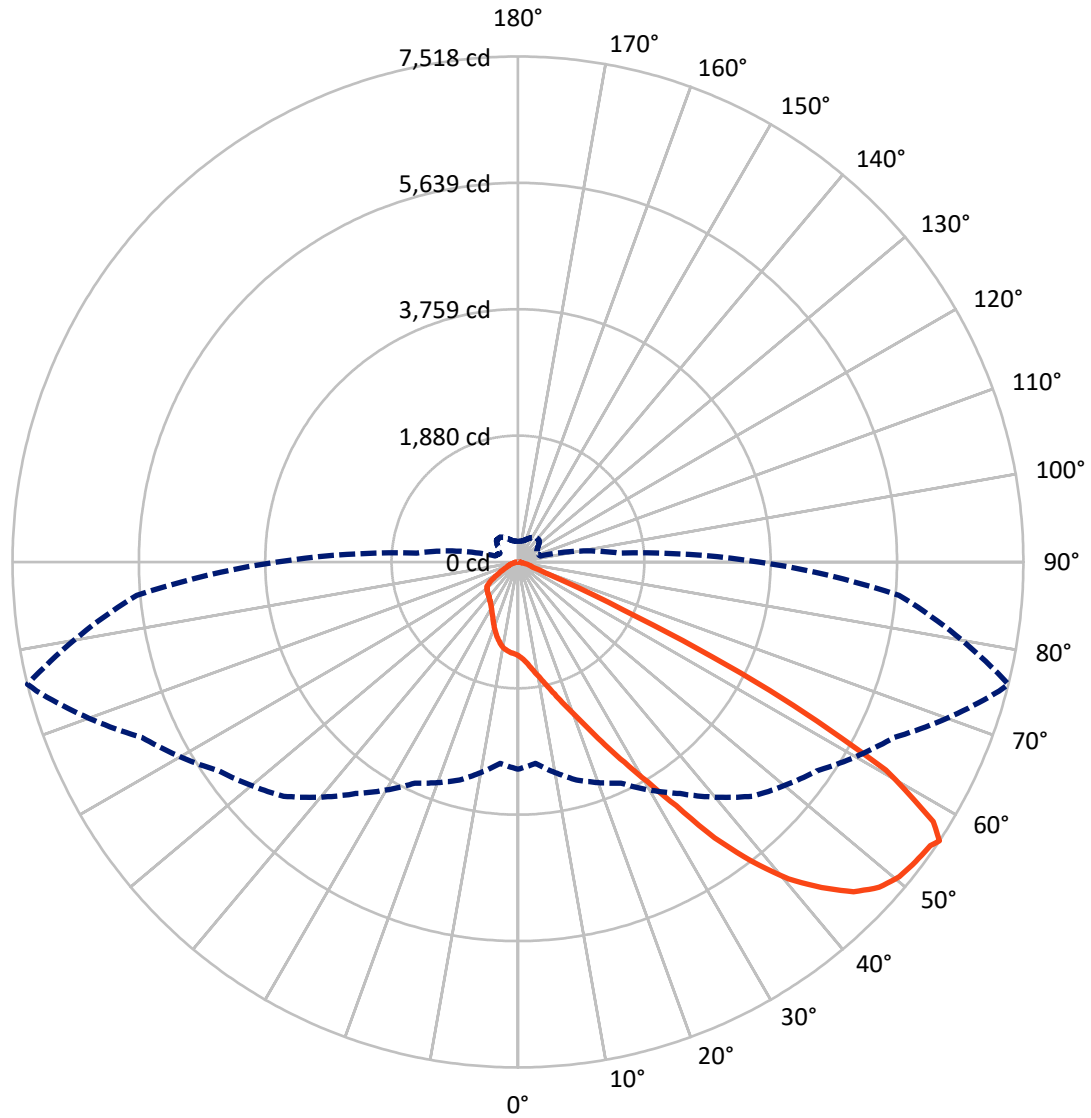
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1316.4	0.0	1316.4
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	7063.5	0.0	7063.5
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	8380.0	0.0	8380.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	1.7
10°-20°	451.4	5.4
20°-30°	818.5	9.8
30°-40°	1411.6	16.8
40°-50°	2293.2	27.4
50°-60°	2417.1	28.8
60°-70°	738.5	8.8
70°-80°	94.7	1.1
80°-90°	14.4	0.2
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°	8380.0	100.0
0°-180°	8380.0	100.0

**Coefficient of Utilization**

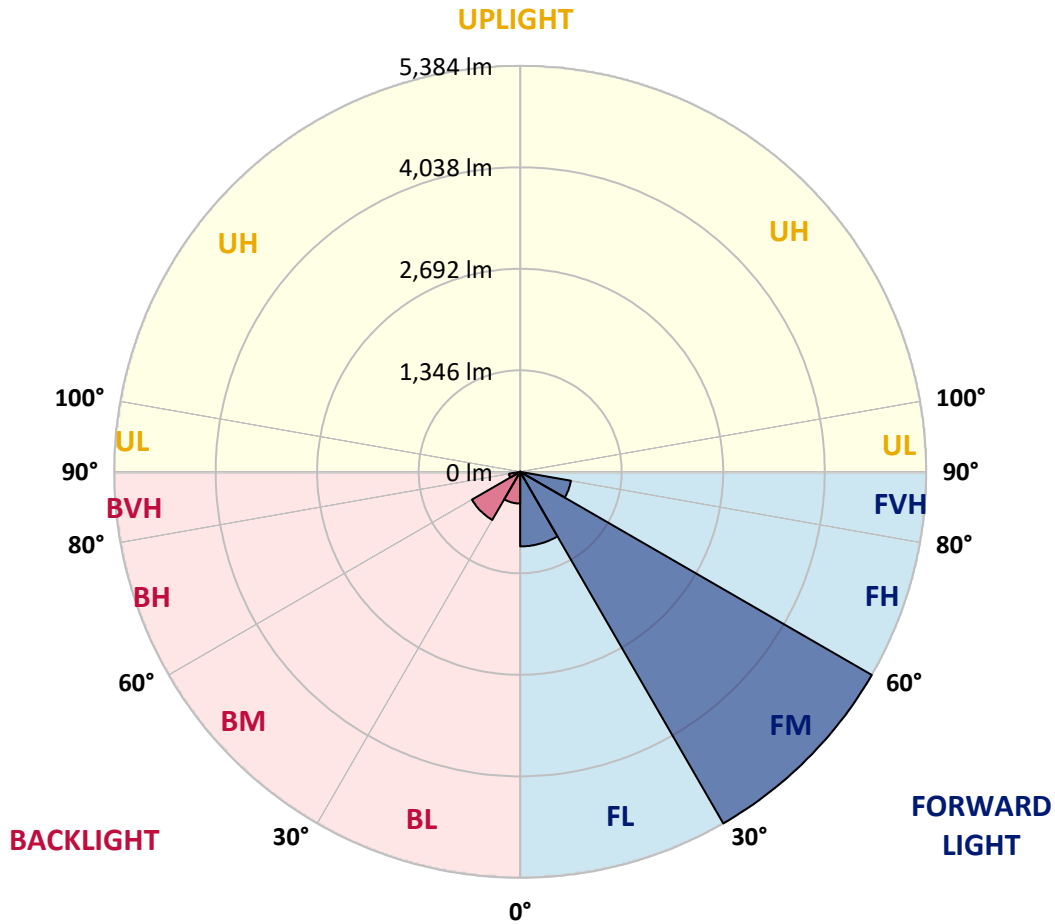


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.3	11.8			
FM (30°-60°)	5384.1	64.2			
FH (60°-80°)	683.0	8.2			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	421.1	5.0	B1/500		
BM (30°-60°)	737.8	8.8	B1/1000		
BH (60°-80°)	150.2	1.8	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
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°	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9
2.5°	1606.5	1569.4	1571.0	1567.9	1563.2	1546.2	1495.3	1487.5	1453.6	1444.3	1413.4
5°	1799.6	1767.1	1785.7	1757.9	1731.6	1716.2	1632.7	1594.1	1540.1	1520.0	1476.7
7.5°	1920.1	1904.6	1898.4	1900.0	1875.3	1836.6	1799.6	1714.6	1642.0	1626.6	1535.4
10°	1978.8	1969.5	1978.8	1974.1	1984.9	1989.6	1924.7	1873.7	1767.1	1740.9	1598.8
12.5°	1992.7	2011.2	2018.9	2039.0	2065.3	2110.1	2105.4	2035.9	1893.8	1876.8	1696.1
15°	2026.6	2042.1	2034.4	2066.8	2116.2	2191.9	2232.1	2221.3	2068.4	2037.5	1808.8
17.5°	2057.5	2029.7	2056.0	2120.9	2170.3	2286.2	2383.5	2428.3	2258.4	2222.8	1912.3
20°	2099.2	2091.5	2086.9	2119.3	2207.4	2361.8	2554.9	2636.8	2471.5	2434.4	2060.6
22.5°	2225.9	2227.5	2224.4	2176.5	2239.8	2414.4	2704.8	2907.1	2726.4	2695.5	2229.0
25°	2392.7	2372.7	2357.2	2318.6	2310.9	2462.3	2856.1	3237.7	3032.2	3010.6	2411.3
27.5°	2568.8	2568.8	2522.5	2487.0	2437.5	2581.2	2995.2	3559.0	3401.4	3372.1	2570.4
30°	2760.4	2771.2	2765.0	2689.3	2658.4	2710.9	3137.3	3969.9	3824.7	3787.6	2833.0
32.5°	3043.1	3019.9	3046.1	2982.8	2891.7	2938.0	3361.3	4337.5	4374.6	4322.1	3177.4
35°	3416.9	3403.0	3386.0	3282.5	3174.4	3211.4	3677.9	4790.1	5065.1	5038.8	3525.0
37.5°	3752.1	3744.4	3730.4	3659.4	3534.3	3579.1	4037.8	5261.2	5738.6	5652.1	4016.2
40°	4104.3	4146.0	4101.2	4037.8	3923.5	4022.4	4461.1	5540.8	6305.5	6200.4	4391.6
42.5°	4581.6	4549.1	4569.2	4453.4	4391.6	4499.7	4885.9	5820.4	6745.7	6620.6	4790.1
45°	5089.8	5091.3	5037.3	5000.2	4839.5	4956.9	5146.9	5974.9	7096.3	6999.0	5091.3
47.5°	5415.7	5414.2	5472.9	5531.6	5366.3	5250.4	5324.6	6121.6	7277.1	7232.3	5201.0
50°	5364.7	5380.2	5455.9	5675.2	5761.7	5605.7	5491.4	6078.4	7358.9	7354.3	5295.2
52.5°	4666.5	4717.5	4844.2	5160.8	5596.4	5789.5	5666.0	6158.7	7399.1	7406.8	5435.8
55°	3552.8	3580.6	3821.6	4206.2	4688.2	5349.3	5596.4	6222.0	7430.0	7443.9	5605.7
56°	3081.7	3007.5	3355.1	3628.5	4204.7	4927.6	5420.4	6172.6	7411.5	7518.1	5690.7
57.5°	2326.3	2276.9	2558.0	2899.4	3453.9	4217.0	4873.5	5939.4	7286.3	7284.8	5568.6
60°	1414.9	1365.5	1581.8	1782.6	2093.1	2596.6	3293.3	4729.9	6160.3	6290.0	4509.0
62.5°	841.9	872.8	1085.9	1208.0	1308.4	1360.9	1703.8	2811.4	4110.4	4203.1	2797.5
65°	560.7	571.5	732.2	933.0	977.8	778.5	693.6	1138.4	1782.6	1725.4	1153.9
67.5°	346.0	370.7	491.2	701.3	777.0	568.4	329.0	424.8	491.2	491.2	333.7
70°	210.1	222.4	327.5	477.3	532.9	366.1	239.4	239.4	236.3	231.7	199.3
72.5°	100.4	108.1	166.8	245.6	250.2	193.1	185.4	202.4	197.7	196.2	165.3
75°	43.3	46.3	58.7	77.2	88.0	81.9	112.8	145.2	149.8	145.2	118.9
77.5°	13.9	15.4	21.6	27.8	29.3	35.5	47.9	60.2	69.5	64.9	58.7
80°	1.5	3.1	6.2	13.9	21.6	27.8	35.5	40.2	44.8	44.8	41.7
82.5°	1.5	1.5	6.2	12.4	20.1	26.3	34.0	38.6	44.8	46.3	43.3
85°	0.0	1.5	4.6	10.8	17.0	17.0	15.4	15.4	10.8	10.8	10.8
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9	1394.9
2.5°	1407.2	1404.1	1362.4	1336.2	1322.3	1294.5	1277.5	1265.1	1255.8	1245.0	1246.6
5°	1425.8	1414.9	1345.4	1297.5	1240.4	1209.5	1183.2	1161.6	1147.7	1144.6	1138.4
7.5°	1478.3	1421.1	1316.1	1229.6	1157.0	1126.1	1102.9	1089.0	1095.2	1081.3	1092.1
10°	1518.4	1433.5	1280.6	1155.4	1082.8	1059.7	1047.3	1058.1	1073.6	1067.4	1059.7
12.5°	1567.9	1445.8	1223.4	1084.4	1016.4	999.4	1021.0	1041.1	1072.0	1084.4	1068.9
15°	1623.5	1459.7	1150.8	1002.5	959.3	973.2	1010.2	1045.8	1076.7	1092.1	1101.4
17.5°	1691.4	1455.1	1079.7	937.6	905.2	945.4	990.2	1022.6	1068.9	1092.1	1085.9
20°	1754.8	1439.7	1001.0	872.8	874.3	911.4	948.4	1001.0	1025.7	1056.6	1045.8
22.5°	1815.0	1411.9	919.1	828.0	828.0	885.1	903.6	937.6	959.3	974.7	973.2
25°	1900.0	1359.3	851.1	784.7	803.2	840.3	855.8	866.6	857.3	869.7	871.2
27.5°	1960.2	1305.3	795.5	746.1	780.1	807.9	803.2	797.1	775.4	758.4	769.3
30°	2025.1	1241.9	747.6	719.8	738.4	763.1	744.5	726.0	692.0	664.2	665.8
32.5°	2117.8	1212.6	705.9	688.9	713.7	716.7	696.7	668.9	634.9	608.6	607.1
35°	2290.8	1194.1	670.4	668.9	673.5	675.0	655.0	621.0	607.1	585.4	593.2
37.5°	2463.8	1184.8	645.7	639.5	638.0	639.5	616.3	583.9	610.2	608.6	611.7
40°	2684.7	1226.5	610.2	602.4	604.0	604.0	574.6	565.4	611.7	616.3	617.9
42.5°	2908.7	1279.0	587.0	562.3	568.4	568.4	553.0	542.2	574.6	543.7	539.1
45°	3103.3	1356.2	562.3	522.1	537.6	545.3	540.6	522.1	502.0	449.5	449.5
47.5°	3166.6	1424.2	532.9	483.5	495.8	529.8	515.9	477.3	441.8	398.5	395.4
50°	3277.9	1498.4	509.8	438.7	465.0	506.7	492.8	454.1	414.0	383.1	384.6
52.5°	3392.2	1583.3	466.5	386.2	418.6	488.1	488.1	444.9	383.1	361.5	358.4
55°	3563.6	1580.2	389.3	316.7	373.8	460.3	468.0	398.5	342.9	325.9	325.9
56°	3588.3	1509.2	350.6	296.6	353.7	452.6	454.1	386.2	327.5	308.9	308.9
57.5°	3403.0	1362.4	307.4	271.9	329.0	438.7	440.2	375.4	315.1	288.9	285.8
60°	2618.3	922.2	256.4	242.5	298.1	395.4	403.2	341.4	276.5	256.4	254.9
62.5°	1478.3	511.3	225.5	219.3	256.4	336.7	359.9	298.1	234.8	224.0	227.1
65°	675.0	281.1	190.0	177.6	207.0	259.5	290.4	245.6	193.1	180.7	180.7
67.5°	247.2	191.5	162.2	140.6	145.2	168.4	188.5	159.1	128.2	109.7	114.3
70°	176.1	160.6	142.1	122.0	112.8	109.7	108.1	89.6	63.3	49.4	52.5
72.5°	142.1	132.8	118.9	103.5	88.0	74.1	63.3	46.3	29.3	20.1	18.5
75°	102.0	97.3	86.5	74.1	61.8	52.5	43.3	29.3	15.4	7.7	7.7
77.5°	52.5	52.5	51.0	46.3	38.6	30.9	24.7	17.0	9.3	3.1	3.1
80°	40.2	43.3	44.8	40.2	35.5	27.8	20.1	12.4	6.2	1.5	1.5
82.5°	38.6	44.8	47.9	41.7	35.5	26.3	20.1	12.4	6.2	1.5	1.5
85°	9.3	9.3	13.9	15.4	20.1	21.6	17.0	10.8	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	0.0
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)