

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: P528168

Luminaire Tested: **GALN-SA3B-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
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-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12401 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

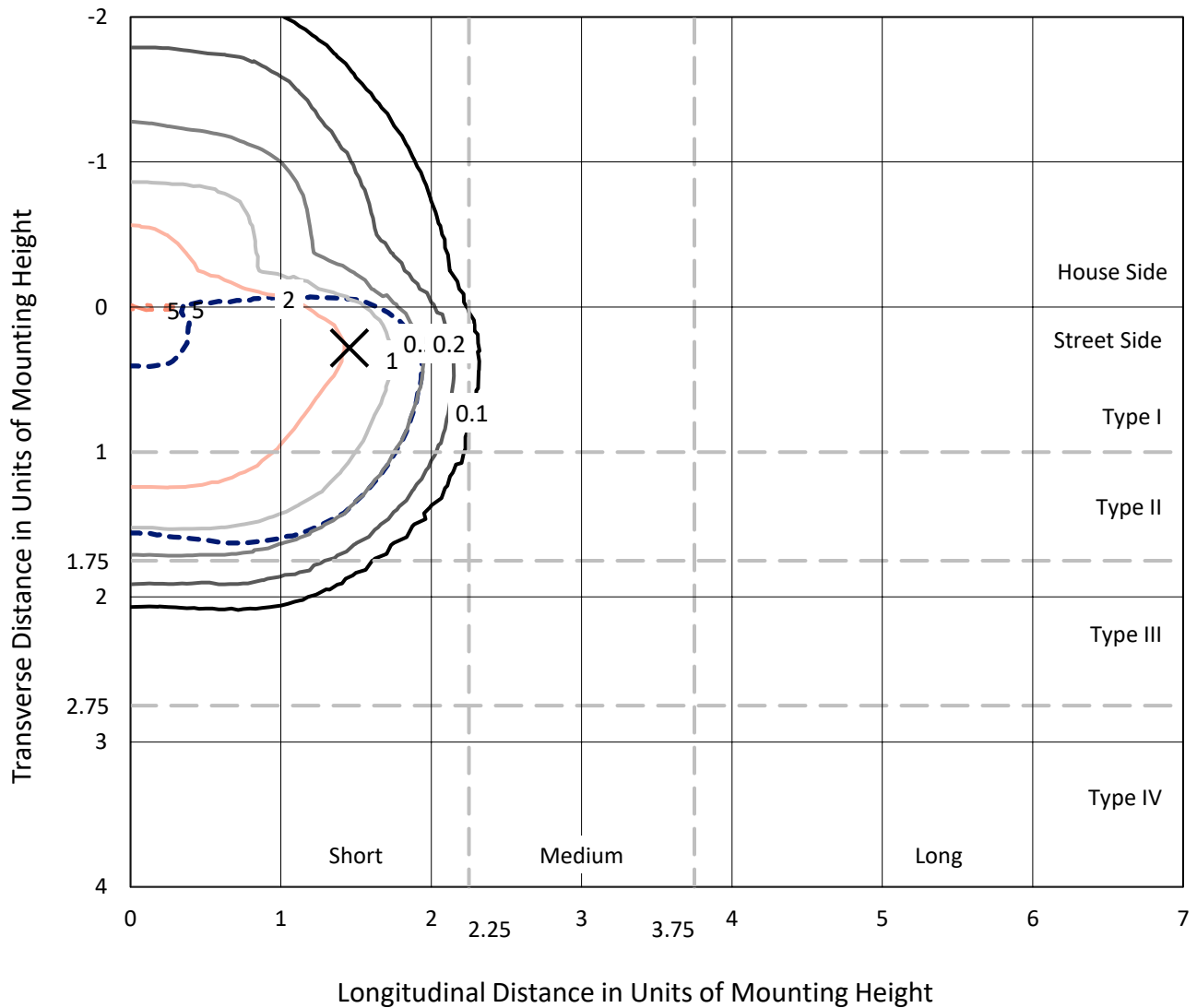
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

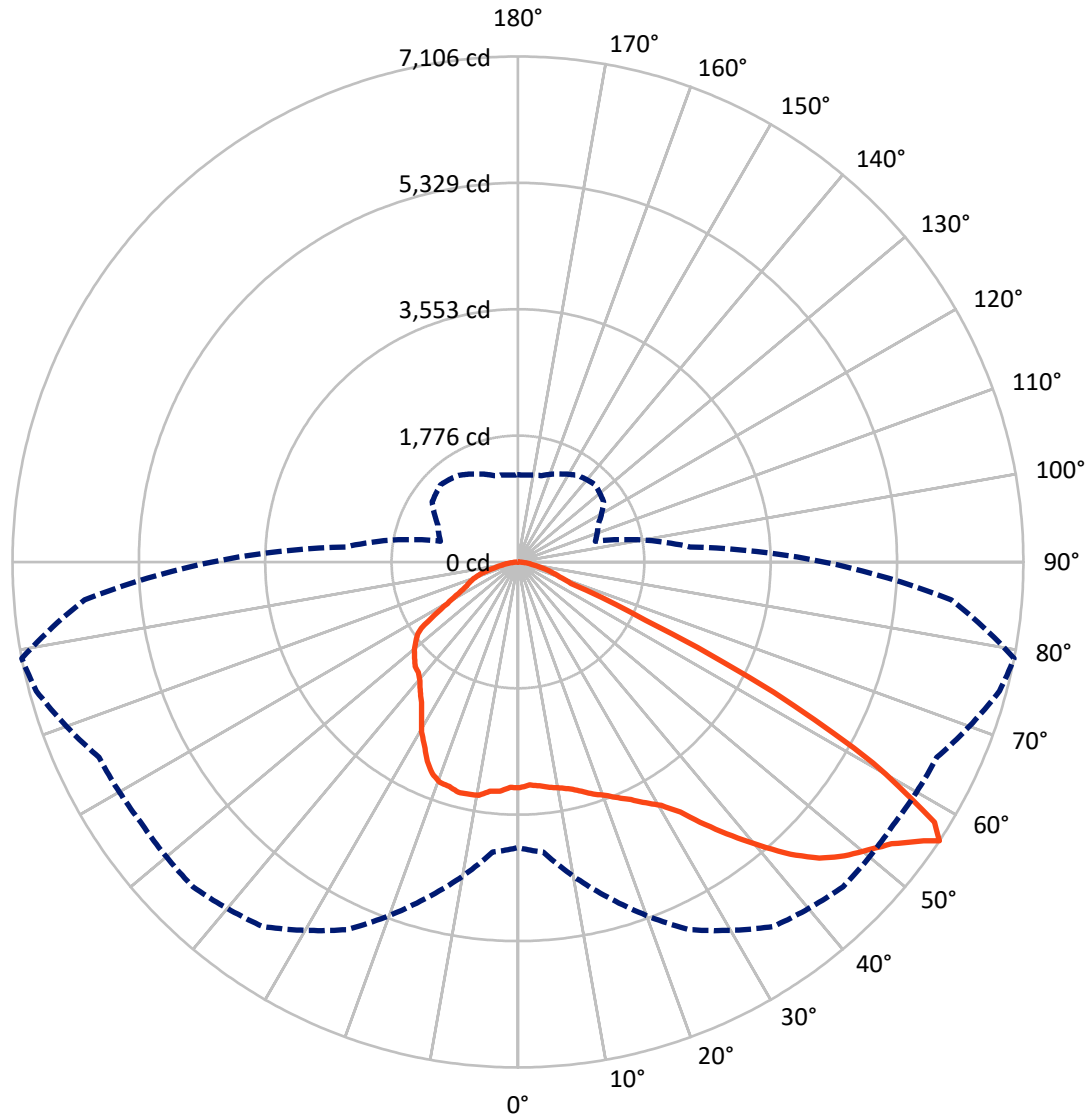
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3662.3	0.0	3662.3
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	8738.7	0.0	8738.7
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	12401.0	0.0	12401.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.5	2.3
10°-20°	789.5	6.4
20°-30°	1350.7	10.9
30°-40°	2070.1	16.7
40°-50°	2797.7	22.6
50°-60°	3213.2	25.9
60°-70°	1464.7	11.8
70°-80°	361.1	2.9
80°-90°	65.6	0.5
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°	12401.0	100.0
0°-180°	12401.0	100.0

**Coefficient of Utilization**



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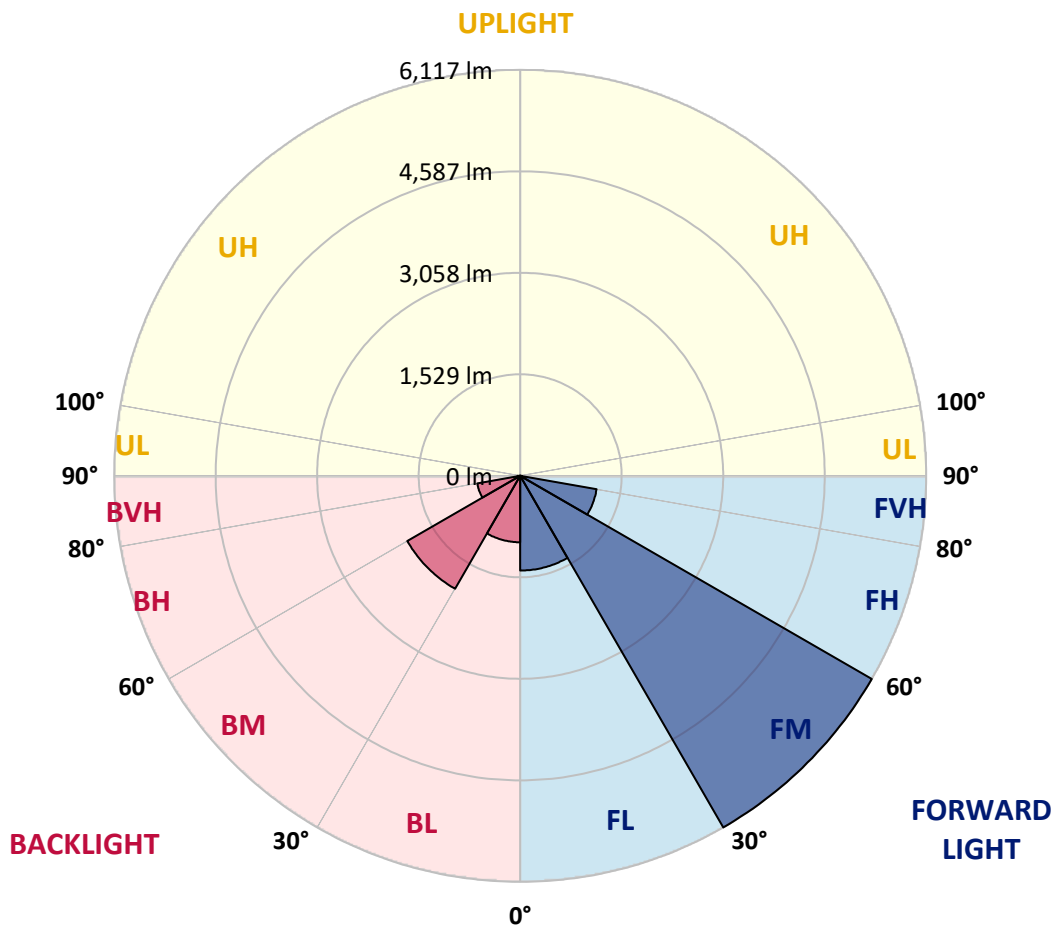
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.8	11.5			
FM (30°-60°)	6116.5	49.3			
FH (60°-80°)	1169.1	9.4			G1/1800
FVH (80°-90°)	26.2	0.2			G1/100
BL (0°-30°)	1001.8	8.1	B3/2500		
BM (30°-60°)	1964.4	15.8	B2/2500		
BH (60°-80°)	656.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	39.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3018.4	3010.7	3029.3	3043.2	3060.2	3081.8	3092.6	3098.8	3152.8	3138.9	3180.6
5°	2953.6	2933.5	2947.4	2958.2	2987.6	3013.8	3043.2	3089.5	3138.9	3160.6	3211.5
7.5°	2896.4	2885.6	2882.5	2890.2	2930.4	2964.4	3015.4	3083.3	3163.7	3199.2	3228.5
10°	2802.2	2786.7	2809.9	2860.9	2871.7	2942.8	3001.5	3098.8	3168.3	3230.1	3316.6
12.5°	2760.5	2745.0	2749.7	2779.0	2854.7	2922.7	2992.2	3101.9	3248.6	3273.3	3389.2
15°	2826.9	2811.5	2816.1	2808.4	2881.0	2916.5	3026.2	3163.7	3304.2	3345.9	3469.5
17.5°	2978.3	2979.8	2959.7	2942.8	2925.8	3001.5	3077.2	3200.7	3325.9	3430.9	3523.6
20°	3267.2	3216.2	3176.0	3080.2	3054.0	3086.4	3182.2	3301.1	3413.9	3500.4	3605.5
22.5°	3489.6	3494.2	3437.1	3279.5	3222.4	3236.3	3318.1	3415.5	3539.0	3600.8	3721.3
25°	3812.5	3780.0	3718.2	3593.1	3464.9	3475.7	3535.9	3624.0	3658.0	3701.2	3832.5
27.5°	4107.5	4116.8	3994.7	3877.3	3718.2	3687.3	3795.5	3810.9	3753.8	3835.6	3880.4
30°	4407.2	4399.5	4319.1	4181.6	4025.6	4031.8	4079.7	4004.0	3925.2	3970.0	4000.9
32.5°	4717.7	4629.6	4626.5	4503.0	4384.0	4326.9	4268.2	4305.2	4183.2	4192.5	4163.1
35°	4966.4	4978.7	4907.7	4819.6	4760.9	4660.5	4499.9	4566.3	4543.1	4532.3	4405.6
37.5°	5147.1	5099.2	5134.8	5105.4	5049.8	4924.7	4757.8	4821.2	4832.0	4884.5	4737.8
40°	5295.4	5275.3	5369.6	5385.0	5346.4	5076.1	4776.4	4964.8	5127.0	5241.4	5066.8
42.5°	5366.5	5409.7	5508.6	5627.5	5541.0	5252.2	4872.2	5074.5	5436.0	5616.7	5378.8
45°	5462.3	5406.6	5553.4	5771.2	5772.7	5400.5	4964.8	5222.8	5677.0	5939.6	5592.0
47.5°	5364.9	5392.7	5544.1	5820.6	5891.7	5556.5	5215.1	5432.9	5942.7	6175.9	5789.7
50°	5147.1	5202.7	5479.2	5766.6	5981.3	5721.8	5502.4	5660.0	6188.3	6365.9	5822.2
52.5°	4920.0	4950.9	5383.5	5808.3	6021.5	5934.9	5887.1	5973.6	6488.0	6580.7	5862.3
55°	4302.1	4448.9	5066.8	5789.7	6217.6	6319.6	6282.5	6409.2	6827.8	6920.5	6081.7
56°	4016.4	4093.6	4876.8	5703.2	6256.3	6460.2	6441.6	6498.8	7008.5	7105.9	6115.7
57.5°	3488.1	3494.2	4158.5	5320.1	6111.0	6501.9	6483.3	6528.1	6973.0	6906.6	5817.5
60°	2182.7	2278.5	2830.0	4092.1	5196.6	6032.3	6137.3	5777.4	5879.3	5738.8	4526.1
62.5°	1130.8	1116.9	1483.0	2392.8	3449.4	4319.1	4416.5	4399.5	4241.9	4036.4	2956.7
65°	563.8	566.9	775.5	1184.8	1767.2	2261.5	2533.4	2562.7	2144.1	1972.7	1402.6
67.5°	409.4	424.8	557.7	724.5	832.6	931.5	1141.6	1119.9	848.1	806.4	747.7
70°	318.2	332.1	452.6	553.0	502.0	502.0	546.8	565.4	604.0	621.0	641.1
72.5°	231.7	242.5	346.0	381.6	329.0	353.7	409.4	452.6	492.8	499.0	522.1
75°	159.1	168.4	227.1	210.1	197.7	244.1	299.7	339.8	369.2	384.6	398.5
77.5°	103.5	106.6	129.8	109.7	126.7	157.6	194.6	228.6	258.0	270.3	273.4
80°	46.3	51.0	55.6	69.5	88.1	112.8	139.0	166.8	185.4	190.0	199.3
82.5°	26.3	26.3	34.0	49.4	64.9	81.9	100.4	120.5	142.1	146.8	145.2
85°	13.9	13.9	20.1	29.4	40.2	47.9	46.3	47.9	51.0	58.7	57.2
87.5°	4.6	4.6	6.2	6.2	7.7	9.3	7.7	10.8	13.9	13.9	13.9
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°	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9	3172.9
2.5°	3168.3	3182.2	3163.7	3203.8	3203.8	3196.1	3157.5	3169.8	3179.1	3179.1	3186.8
5°	3228.5	3223.9	3236.3	3188.4	3159.0	3148.2	3084.9	3054.0	3027.7	3026.2	3003.0
7.5°	3262.5	3250.2	3245.5	3210.0	3080.2	3001.5	2865.5	2786.7	2769.7	2709.5	2732.7
10°	3316.6	3339.8	3316.6	3123.5	2942.8	2762.0	2629.2	2507.1	2459.2	2420.6	2397.5
12.5°	3427.8	3417.0	3282.6	3021.5	2768.2	2553.5	2355.7	2227.5	2179.6	2145.7	2142.6
15°	3522.0	3468.0	3262.5	2860.9	2496.3	2267.7	2105.5	2014.4	1992.7	1995.8	2009.7
17.5°	3554.5	3517.4	3157.5	2694.1	2294.0	2025.2	1949.5	1935.6	1955.7	1978.8	1985.0
20°	3605.5	3546.8	3114.2	2467.0	2043.7	1873.8	1869.2	1918.6	1955.7	1989.6	1994.3
22.5°	3712.0	3563.7	2973.7	2252.3	1872.2	1829.0	1873.8	1915.5	1972.7	2000.5	1975.7
25°	3742.9	3526.7	2775.9	1994.3	1764.1	1801.2	1849.1	1906.2	1946.4	1961.8	1972.7
27.5°	3769.2	3469.5	2508.7	1822.8	1730.1	1799.6	1849.1	1897.0	1918.6	1932.5	1944.8
30°	3843.3	3452.5	2277.0	1708.5	1708.5	1768.7	1832.1	1844.4	1873.8	1890.8	1912.4
32.5°	3880.4	3335.1	2039.1	1635.9	1686.9	1784.2	1788.8	1812.0	1813.5	1827.4	1804.3
35°	3977.7	3251.7	1818.2	1583.4	1696.1	1768.7	1791.9	1778.0	1702.3	1665.2	1673.0
37.5°	4048.8	3210.0	1659.1	1577.2	1697.7	1785.7	1798.1	1693.1	1614.3	1552.5	1567.9
40°	4240.3	3106.5	1538.6	1566.4	1711.6	1804.3	1770.3	1656.0	1513.9	1450.5	1439.7
42.5°	4387.1	3032.4	1462.9	1554.0	1722.4	1830.5	1756.4	1581.8	1436.6	1377.9	1393.4
45°	4557.0	3015.4	1422.7	1557.1	1740.9	1844.4	1739.4	1524.7	1370.2	1347.0	1342.4
47.5°	4617.3	2893.3	1379.5	1530.9	1736.3	1839.8	1682.2	1481.4	1345.5	1348.6	1360.9
50°	4516.9	2768.2	1347.0	1476.8	1705.4	1798.1	1592.6	1424.3	1331.6	1370.2	1391.8
52.5°	4388.6	2640.0	1280.6	1404.2	1642.1	1733.2	1550.9	1421.2	1317.7	1305.3	1310.0
55°	4427.3	2534.9	1187.9	1305.3	1540.1	1612.7	1504.6	1391.8	1283.7	1237.3	1252.8
56°	4302.1	2426.8	1127.7	1243.5	1470.6	1535.5	1481.4	1365.6	1255.9	1225.0	1225.0
57.5°	3948.4	2063.8	1048.9	1144.7	1323.9	1401.1	1436.6	1350.1	1225.0	1170.9	1172.5
60°	2911.9	1467.5	940.8	1008.7	1096.8	1158.6	1323.9	1306.9	1147.8	1110.7	1096.8
62.5°	1795.0	1072.1	863.5	889.8	934.6	985.6	1155.5	1183.3	1065.9	1025.7	1016.4
65°	1005.6	820.3	804.8	815.6	837.3	863.5	959.3	1021.1	940.8	879.0	875.9
67.5°	735.3	733.8	746.1	755.4	764.7	764.7	787.8	812.5	801.7	752.3	747.7
70°	653.4	658.1	667.3	668.9	672.0	661.2	642.6	634.9	647.3	616.4	610.2
72.5°	539.1	554.6	565.4	566.9	549.9	536.0	511.3	485.1	475.8	469.6	468.1
75°	414.0	424.8	429.4	427.9	421.7	401.6	372.3	346.0	329.0	310.5	319.8
77.5°	279.6	295.0	302.8	302.8	293.5	262.6	248.7	228.6	211.6	191.5	194.6
80°	196.2	207.0	219.4	217.8	202.4	186.9	166.8	148.3	134.4	118.9	117.4
82.5°	146.8	152.9	159.1	156.0	145.2	129.8	115.9	98.9	83.4	72.6	72.6
85°	52.5	57.2	69.5	72.6	78.8	78.8	66.4	55.6	44.8	37.1	37.1
87.5°	15.4	15.4	17.0	17.0	15.4	17.0	13.9	15.4	17.0	10.8	10.8
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)