

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: P532179

Luminaire Tested: **GALN-SA7C-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34029 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

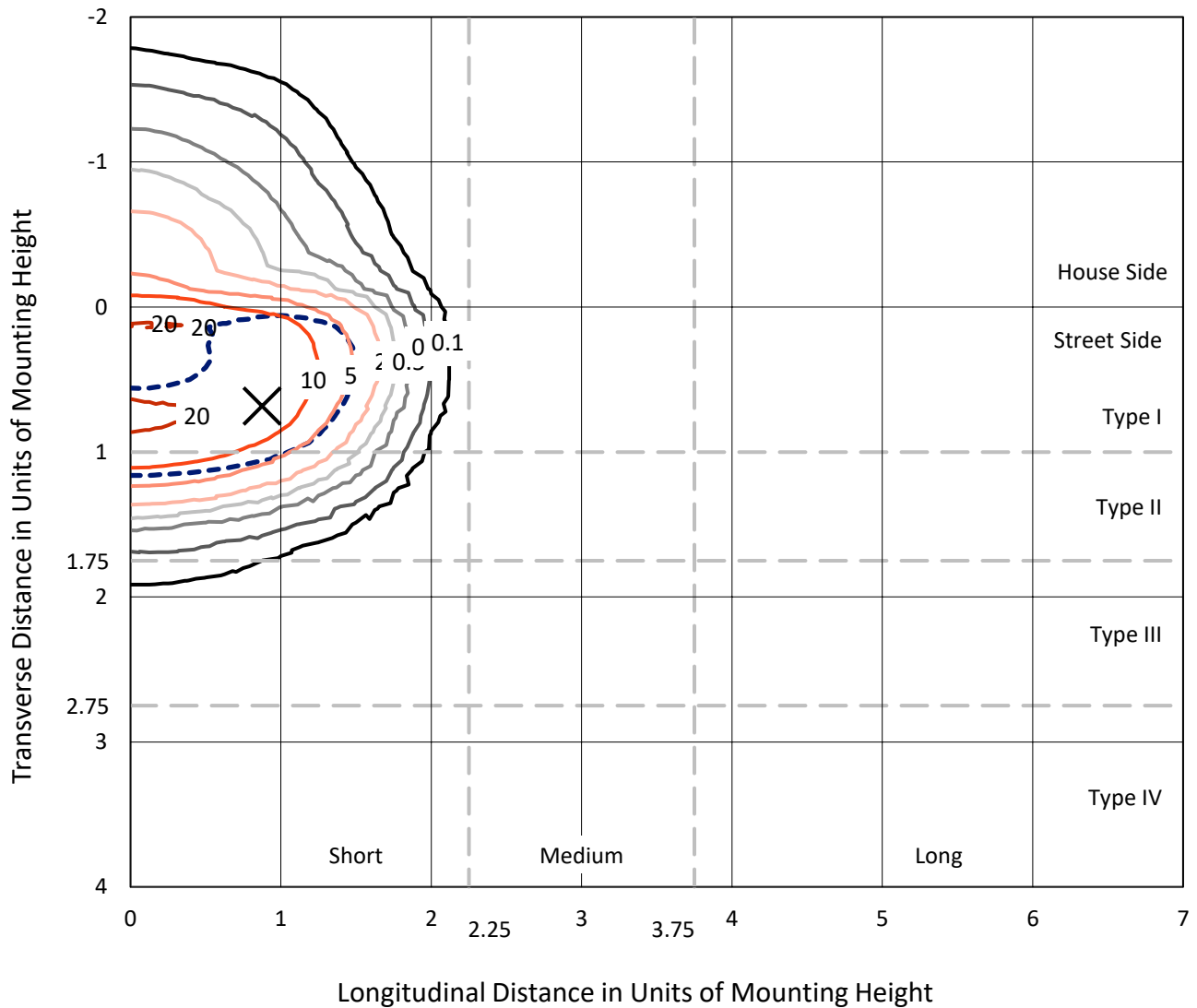
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

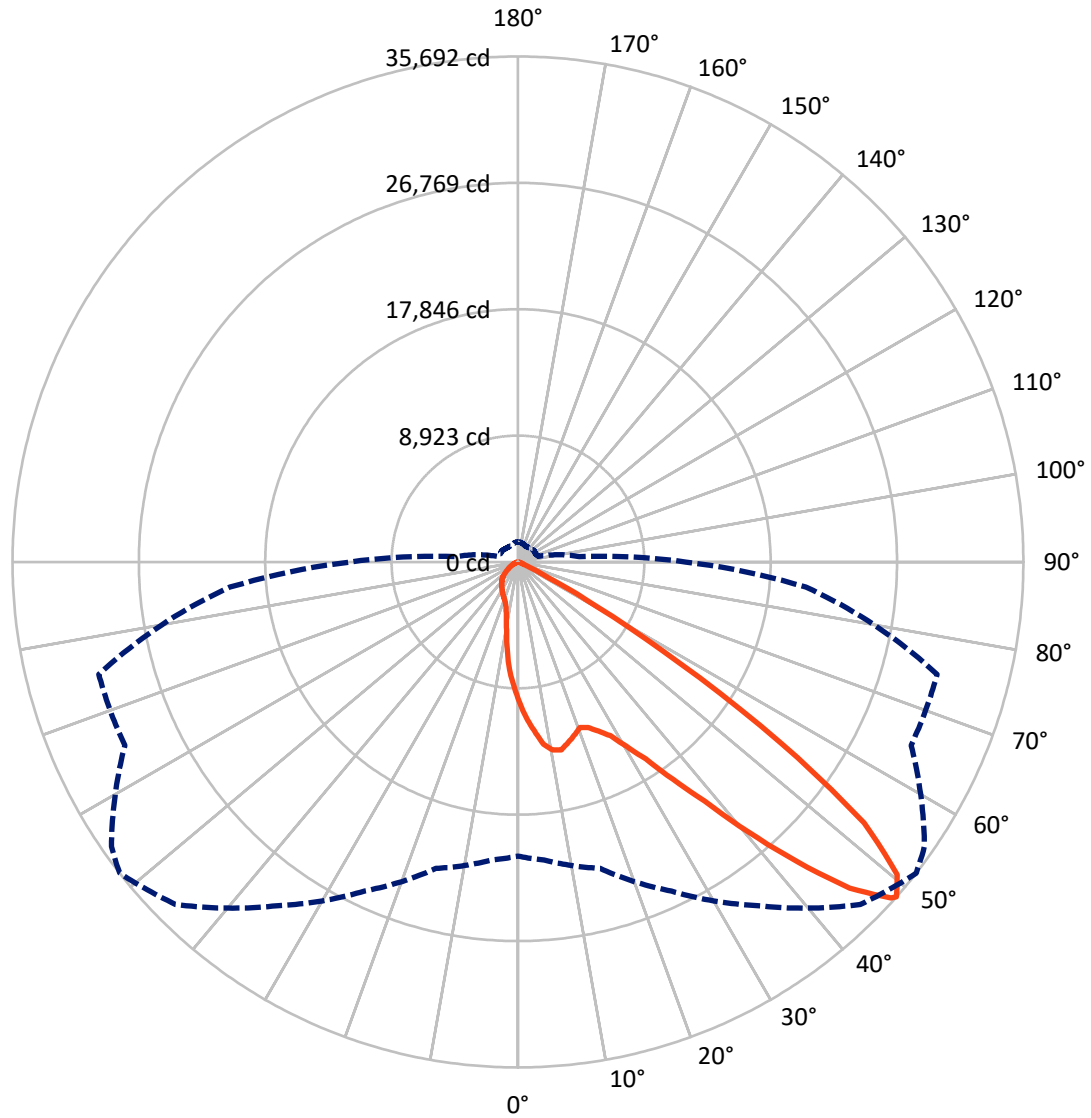
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4143.3	0.0	4143.3
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	29885.7	0.0	29885.7
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	34029.0	0.0	34029.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	899.5	2.6
10°-20°	2350.6	6.9
20°-30°	4013.4	11.8
30°-40°	7390.7	21.7
40°-50°	11477.8	33.7
50°-60°	6907.7	20.3
60°-70°	798.9	2.3
70°-80°	154.7	0.5
80°-90°	35.8	0.1
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°	34029.0	100.0
0°-180°	34029.0	100.0

**Coefficient of Utilization**

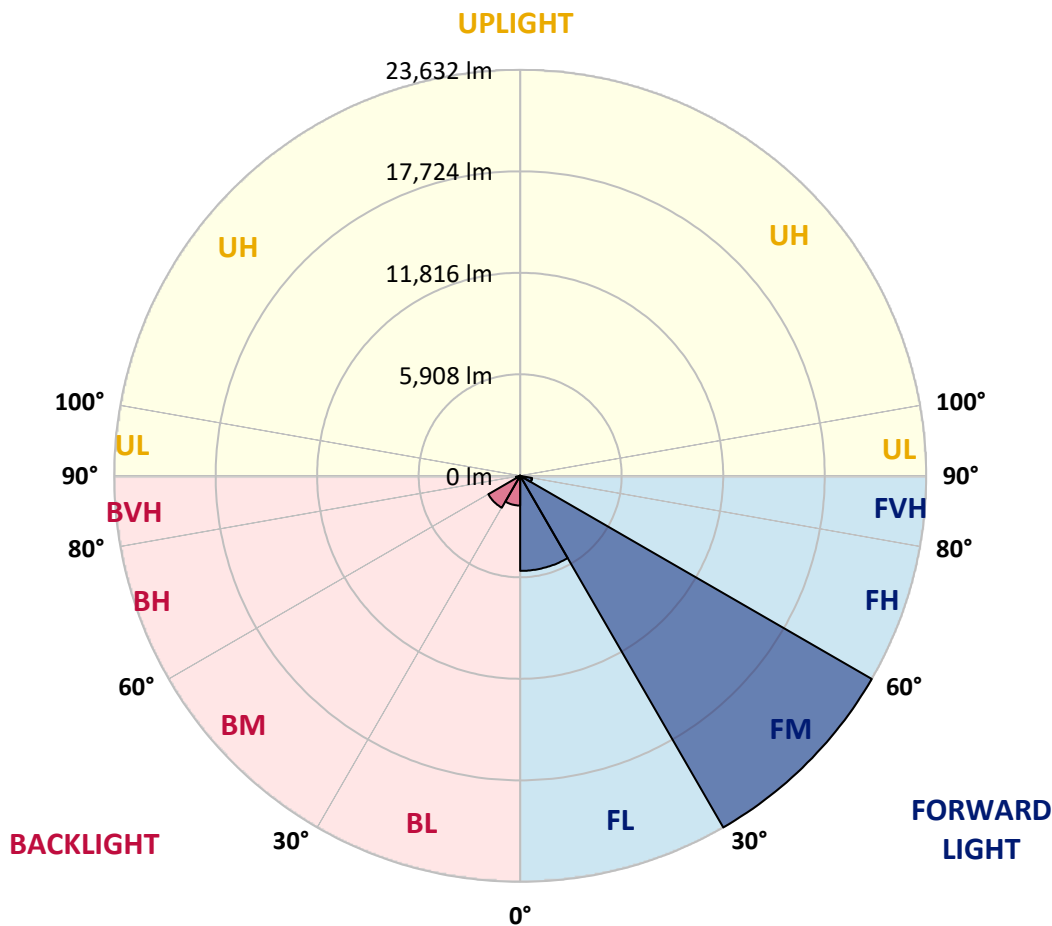


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5532.7	16.3			
FM (30°-60°)	23632.5	69.4			
FH (60°-80°)	703.5	2.1			G1/1800
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	1730.8	5.1	B3/2500		
BM (30°-60°)	2143.7	6.3	B2/2500		
BH (60°-80°)	250.1	0.7	B1/500		G1/500
BVH (80°-90°)	18.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0
2.5°	11910.5	11637.6	11662.4	11483.9	11379.7	11211.0	10982.8	10938.2	10690.2	10352.8	10010.6
5°	12982.0	12917.5	13001.8	12743.9	12753.8	12476.0	11940.2	11950.2	11379.7	10829.1	10298.3
7.5°	13051.4	12902.6	12986.9	13215.1	13349.1	13299.5	12996.9	12733.9	12193.2	11384.6	10610.8
10°	11687.2	11970.0	12059.3	12436.3	12972.1	13537.6	13502.8	13517.7	13066.3	12009.7	10878.7
12.5°	10868.7	10680.2	10982.8	11211.0	12019.6	13115.9	13616.9	13726.1	13760.8	12614.9	11146.5
15°	10496.7	10496.7	10546.3	10610.8	11196.1	12208.1	13230.0	13547.5	14296.5	13408.6	11568.2
17.5°	10729.8	10719.9	10789.4	10655.4	10873.7	11652.5	12872.8	13235.0	14896.8	14187.4	11900.6
20°	11439.2	11473.9	11429.3	11042.4	11057.2	11642.6	12476.0	13046.5	15303.5	14862.1	12342.0
22.5°	12426.4	12446.2	12193.2	11771.6	11647.6	11935.3	12704.2	13140.7	15630.9	15670.6	12476.0
25°	13567.3	13488.0	13438.3	12843.1	12466.1	12714.1	13220.1	13473.1	15834.3	16365.1	12858.0
27.5°	15149.8	14991.0	14688.4	14157.6	13879.8	13527.6	13889.8	14306.5	16414.7	17337.4	13274.6
30°	17486.2	17347.3	16757.0	16072.4	15343.2	14996.0	15110.1	15338.3	17461.4	18463.5	13825.3
32.5°	21003.3	20710.6	19857.4	18552.8	17560.6	16603.2	16573.5	16816.5	18399.0	20021.1	14480.1
35°	24877.6	24788.3	23533.2	22188.9	20269.1	18790.9	18815.7	18944.6	20194.7	22064.9	15338.3
37.5°	27452.1	27943.2	27144.6	25701.0	24088.8	21975.6	21439.8	21484.5	22660.2	24485.7	16886.0
40°	29441.3	29024.7	29118.9	28781.6	27680.3	26241.7	25056.1	24823.0	25512.5	27164.4	18423.8
42.5°	28573.2	28593.1	29173.5	29972.1	30245.0	30140.8	28930.4	28488.9	27953.2	29357.0	19887.2
45°	26122.7	26633.6	27387.6	29500.9	31356.1	33097.3	32859.2	32125.0	29639.8	31093.2	20730.5
47.5°	22213.7	22193.9	23429.1	26177.2	30299.5	34377.2	35458.6	34942.7	30835.3	30899.8	20556.9
48°	20770.2	21127.3	22402.2	25636.5	29629.8	34188.7	35691.7	35041.9	30631.9	30641.8	20408.0
50°	15353.2	15288.7	16876.1	20844.6	26465.0	32125.0	34709.5	35215.5	30626.9	29337.2	19366.3
52.5°	8110.6	8388.4	9544.3	13106.0	18711.5	26291.3	30617.0	31405.8	29545.5	27204.1	17868.2
55°	3447.6	3115.3	4003.2	5918.0	10526.5	17565.6	22461.7	24217.8	24981.7	24073.9	15630.9
57.5°	1230.2	1344.3	1547.7	2227.3	4424.9	9613.7	13393.7	14757.9	17307.6	17664.8	10650.5
60°	788.7	803.6	868.1	1021.9	1661.8	3705.6	6354.6	7440.9	8596.8	8874.6	4970.6
62.5°	610.2	615.1	644.9	669.7	788.7	1438.6	2386.1	2827.6	2936.7	2525.0	1304.6
65°	510.9	515.9	525.8	525.8	560.6	674.6	833.4	917.7	892.9	883.0	739.1
67.5°	391.9	401.8	421.7	421.7	441.5	411.7	461.3	491.1	555.6	674.6	630.0
70°	307.6	312.5	327.4	337.3	337.3	297.6	332.4	362.1	406.8	501.0	496.1
72.5°	238.1	248.0	258.0	258.0	243.1	203.4	238.1	262.9	292.7	347.2	337.3
75°	183.5	183.5	188.5	153.8	119.1	104.2	143.9	173.6	218.3	228.2	188.5
77.5°	49.6	54.6	49.6	44.6	49.6	74.4	94.3	109.1	138.9	138.9	124.0
80°	0.0	5.0	14.9	29.8	49.6	69.4	84.3	94.3	109.1	119.1	114.1
82.5°	0.0	5.0	14.9	29.8	44.6	54.6	74.4	79.4	89.3	104.2	104.2
85°	0.0	5.0	9.9	19.8	29.8	34.7	34.7	29.8	29.8	24.8	19.8
87.5°	0.0	0.0	5.0	9.9	9.9	14.9	14.9	14.9	14.9	14.9	14.9
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°	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0	9827.0
2.5°	9876.6	9722.8	9489.7	9122.6	8770.4	8542.2	8323.9	8080.9	7946.9	7937.0	7862.6
5°	9995.7	9648.4	9092.8	8462.8	7788.2	7207.8	6622.4	6240.5	5898.2	5709.7	5675.0
7.5°	10060.2	9608.7	8710.9	7654.3	6503.4	5555.9	4901.1	4419.9	4231.4	4092.5	4087.6
10°	10194.1	9539.3	8140.4	6582.8	5159.1	4201.7	3750.2	3532.0	3427.8	3388.1	3328.6
12.5°	10293.3	9410.3	7555.0	5481.5	4077.6	3482.4	3283.9	3234.3	3239.3	3259.1	3234.3
15°	10432.2	9296.2	6766.3	4499.3	3422.8	3135.1	3135.1	3145.0	3214.5	3224.4	3219.4
17.5°	10422.3	9073.0	5952.8	3705.6	3026.0	2986.3	3001.2	3095.4	3140.1	3155.0	3120.2
20°	10541.3	8864.6	5114.4	3164.9	2802.8	2862.3	2961.5	2986.3	3040.9	3050.8	3011.1
22.5°	10506.6	8343.8	4335.6	2738.3	2634.1	2748.2	2847.4	2877.2	2862.3	2832.5	2827.6
25°	10442.1	7897.3	3621.3	2455.5	2510.1	2634.1	2728.3	2673.8	2644.0	2649.0	2653.9
27.5°	10328.0	7331.8	3030.9	2257.1	2341.4	2525.0	2520.0	2500.2	2529.9	2505.1	2529.9
30°	10308.2	6766.3	2544.8	2078.5	2217.4	2351.3	2361.3	2396.0	2430.7	2386.1	2430.7
32.5°	10338.0	6146.2	2197.6	1969.4	2143.0	2148.0	2257.1	2291.8	2267.0	2167.8	2177.7
35°	10566.1	5670.0	1944.6	1909.8	2023.9	2028.9	2133.1	2088.4	1979.3	1919.8	1954.5
37.5°	11047.3	5273.2	1825.5	1855.3	1865.2	1929.7	1934.6	1845.4	1855.3	1850.3	1870.2
40°	11662.4	4970.6	1741.2	1805.7	1795.7	1840.4	1661.8	1711.4	1756.1	1770.9	1780.9
42.5°	12084.1	4752.3	1686.6	1726.3	1706.5	1627.1	1527.9	1577.5	1612.2	1666.8	1676.7
45°	12272.6	4578.7	1622.1	1587.4	1587.4	1443.5	1403.9	1413.8	1493.1	1552.7	1542.8
47.5°	11965.0	4410.0	1508.0	1403.9	1438.6	1319.5	1274.9	1274.9	1359.2	1433.6	1418.7
48°	11846.0	4340.6	1513.0	1364.2	1389.0	1299.7	1255.0	1245.1	1339.4	1408.8	1408.8
50°	11255.7	4082.6	1384.0	1255.0	1205.4	1195.5	1165.7	1175.7	1235.2	1299.7	1299.7
52.5°	10104.8	3527.0	1170.7	1076.5	987.2	1046.7	1061.6	1041.7	1071.5	1131.0	1126.1
55°	8433.1	2708.5	937.6	892.9	823.5	888.0	917.7	892.9	863.1	907.8	907.8
57.5°	5402.1	1458.4	749.1	759.0	689.5	754.0	778.8	719.3	664.7	699.4	694.5
60°	2435.7	873.1	615.1	600.2	555.6	630.0	669.7	600.2	525.8	550.6	575.4
62.5°	912.8	620.1	466.3	456.4	446.5	515.9	535.7	481.2	406.8	421.7	426.6
65°	669.7	545.7	372.0	337.3	357.2	406.8	396.9	342.3	292.7	292.7	302.6
67.5°	570.5	476.2	302.6	262.9	262.9	267.9	248.0	218.3	203.4	213.3	223.2
70°	446.5	377.0	238.1	203.4	183.5	163.7	143.9	138.9	124.0	138.9	133.9
72.5°	287.7	253.0	183.5	153.8	138.9	114.1	94.3	89.3	74.4	69.4	69.4
75°	153.8	153.8	143.9	124.0	109.1	89.3	74.4	59.5	39.7	29.8	29.8
77.5°	109.1	119.1	129.0	119.1	99.2	74.4	59.5	39.7	19.8	9.9	9.9
80°	104.2	119.1	129.0	114.1	99.2	74.4	54.6	29.8	14.9	5.0	5.0
82.5°	94.3	109.1	119.1	104.2	89.3	64.5	49.6	29.8	14.9	5.0	5.0
85°	19.8	24.8	29.8	29.8	34.7	44.6	34.7	24.8	9.9	5.0	5.0
87.5°	14.9	14.9	14.9	14.9	14.9	14.9	9.9	9.9	5.0	5.0	5.0
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)