

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: P458330

Luminaire Tested: **GALN-SA9D-727-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458330  
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-SA9D-727-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 59773 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G5

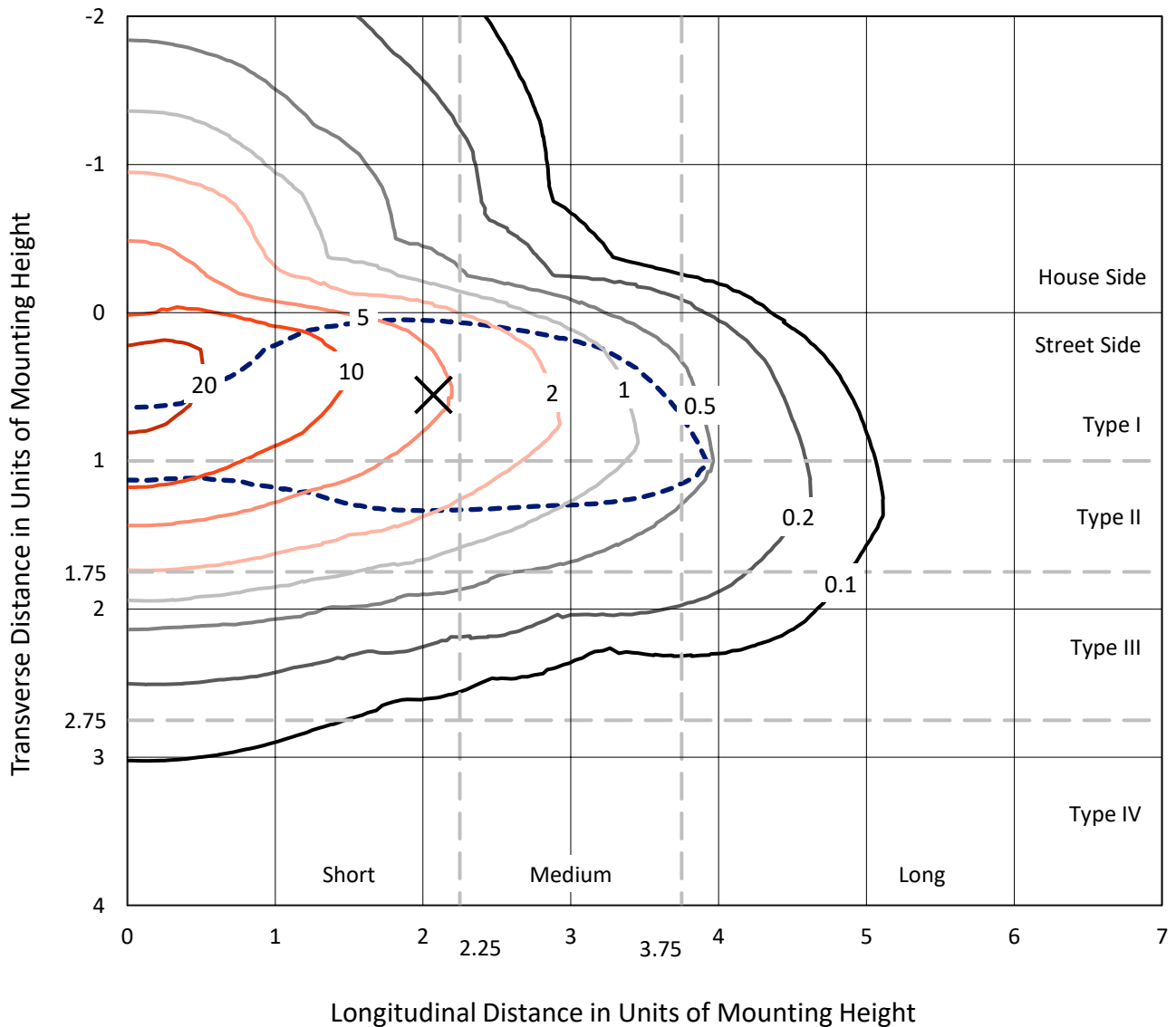
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

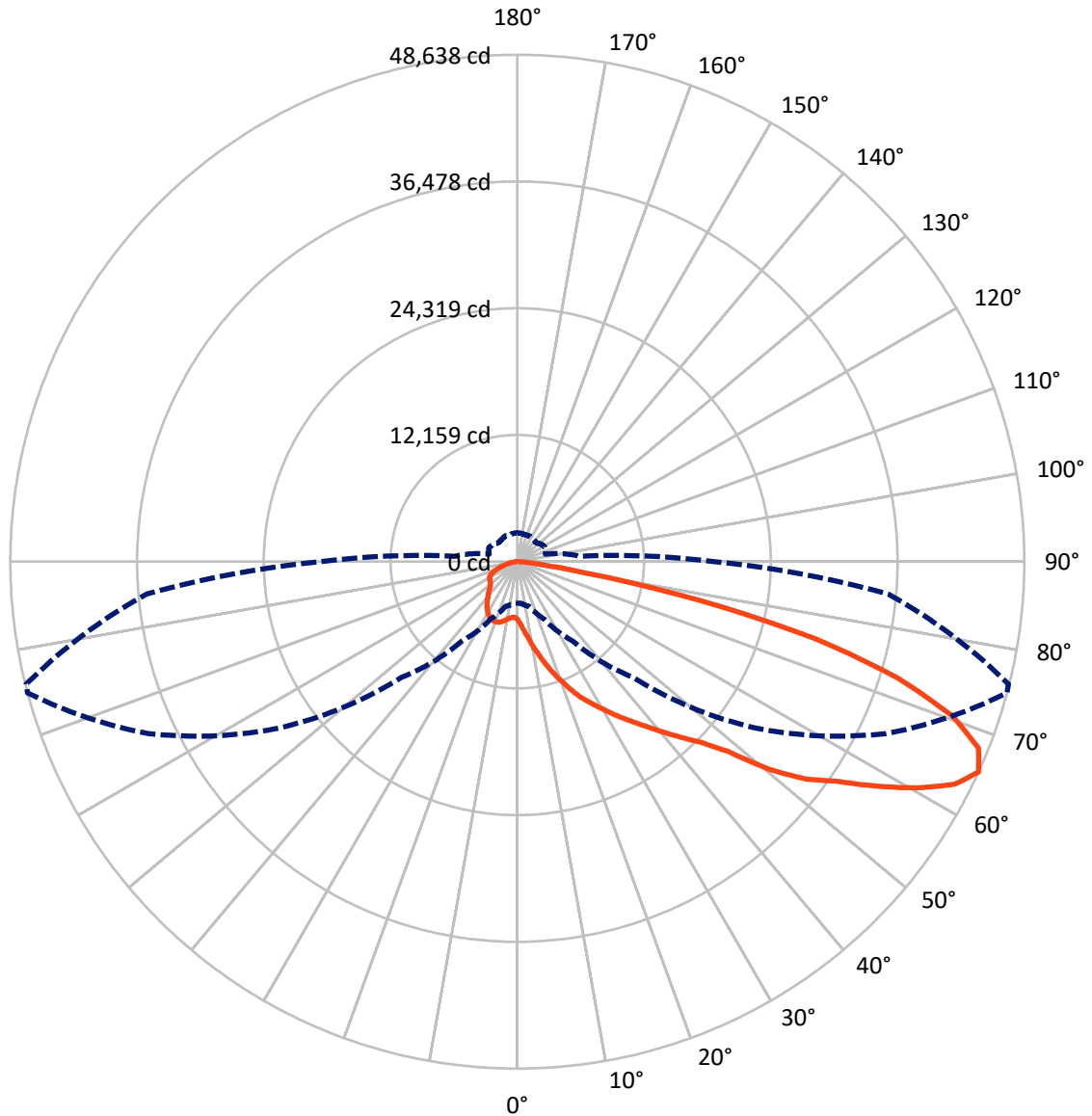
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 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	10048.6	0.0	10048.6
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	49724.4	0.0	49724.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	59773.0	0.0	59773.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	674.8	1.1
10°-20°	2642.9	4.4
20°-30°	5105.2	8.5
30°-40°	8292.4	13.9
40°-50°	11407.0	19.1
50°-60°	13467.8	22.5
60°-70°	11800.0	19.7
70°-80°	5633.4	9.4
80°-90°	749.6	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°	59773.0	100.0
0°-180°	59773.0	100.0

**Coefficient of Utilization**



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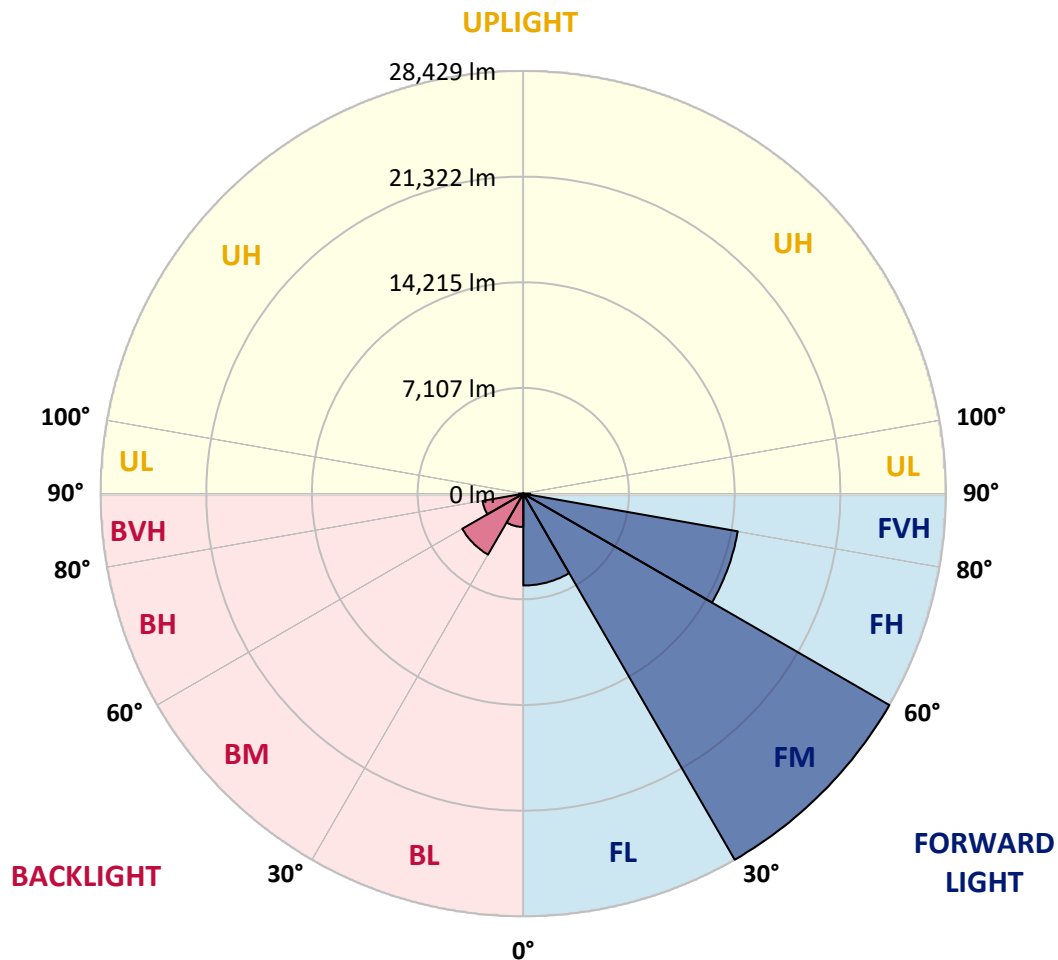
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6179.6	10.3			
FM (30°-60°)	28429.3	47.6			
FH (60°-80°)	14647.1	24.5			G5
FVH (80°-90°)	468.4	0.8			G3/500
BL (0°-30°)	2243.3	3.8	B3/2500		
BM (30°-60°)	4737.9	7.9	B3/5000		
BH (60°-80°)	2786.3	4.7	B4/5000		G4/5000
BVH (80°-90°)	281.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7
2.5°	7379.0	7330.3	7278.4	7135.8	6983.4	6811.6	6565.2	6328.5	6014.0	6004.3	5770.9
5°	9424.7	9392.3	9162.1	9029.2	8675.8	8205.7	7806.9	7187.7	6613.8	6545.7	6091.9
7.5°	11305.1	11178.7	11091.1	10851.2	10501.1	9898.0	9126.4	8290.0	7330.3	7239.5	6487.4
10°	12721.9	12708.9	12663.5	12456.0	12193.4	11593.6	10737.7	9538.2	8238.1	8059.8	6967.2
12.5°	13782.0	13791.8	13785.3	13782.0	13594.0	13085.0	12157.8	10893.4	9155.6	9029.2	7521.6
15°	14479.1	14576.3	14615.3	14777.4	14793.6	14453.1	13655.6	12203.2	10189.8	10001.8	8118.1
17.5°	14939.5	14988.1	15169.6	15445.2	15668.9	15607.3	14897.3	13415.7	11246.7	10932.3	8737.4
20°	15380.4	15464.7	15604.1	15980.2	16375.7	16557.3	16058.0	14657.4	12293.9	12092.9	9421.5
22.5°	16297.9	16417.8	16466.5	16657.8	16994.9	17315.9	17089.0	15847.2	13441.6	13169.3	10147.7
25°	17850.8	17977.3	17841.1	17795.7	17906.0	18064.8	18016.2	16969.0	14524.5	14135.4	10835.0
27.5°	19873.9	19890.1	19624.3	19371.4	19099.0	19018.0	18868.8	17964.3	15464.7	15140.5	11525.6
30°	22046.1	21968.3	21527.3	21070.2	20609.8	20156.0	19728.0	18924.0	16511.9	16139.0	12203.2
32.5°	24062.6	24020.5	23530.9	22820.9	22042.8	21614.9	20749.3	19893.3	17633.6	17273.8	12900.2
35°	25573.5	25635.1	25096.9	24322.0	23472.6	23093.3	22000.7	20911.4	18794.3	18402.0	13658.8
37.5°	26646.6	26614.2	26137.6	25466.5	24720.8	24390.1	23462.9	22023.4	20042.5	19666.4	14488.8
40°	27029.1	27009.7	26656.3	26166.8	25693.4	25576.7	24993.1	23223.0	21472.2	21031.3	15487.4
42.5°	26786.0	26828.1	26594.7	26461.8	26374.2	26458.5	26513.7	24795.4	23031.7	22626.4	16570.2
45°	26040.3	26017.6	25985.2	26202.4	26695.2	27249.6	28018.0	26280.2	24727.3	24403.1	18022.7
47.5°	24707.8	24869.9	24951.0	25550.8	26627.1	27940.2	29749.2	28270.9	27188.0	26905.9	20237.0
50°	22843.6	22973.3	23453.1	24519.8	26124.6	28199.5	31441.6	31525.9	31292.5	30764.0	22642.6
52.5°	19932.2	20133.3	21122.1	23077.1	25093.6	28092.5	32466.1	34317.3	34625.3	34229.8	25012.6
55°	16674.0	16956.0	18000.0	20564.5	23673.6	27509.0	33172.9	35935.1	37163.9	36797.5	27295.0
57.5°	13483.8	13782.0	14855.2	17338.6	21196.7	26218.6	33636.5	37737.7	40619.9	40143.3	30135.0
60°	10105.5	10416.8	11337.5	13895.5	17669.3	23696.3	33322.0	39300.4	44072.7	43868.5	32978.3
62.5°	6519.8	6863.5	7664.3	9781.3	13581.0	20250.0	31639.4	40162.8	47061.9	46815.5	35053.3
65°	3971.5	4010.4	4451.4	6072.4	9295.0	15678.7	27791.0	39018.3	48637.5	48563.0	35685.5
67.5°	2567.7	2629.3	2830.3	3637.6	5573.1	10890.1	22221.2	35241.3	47716.8	47690.9	34378.9
70°	2168.9	2188.4	2279.2	2454.2	3238.8	6604.1	15604.1	29220.8	44218.6	44218.6	31237.3
72.5°	1938.8	1964.7	1997.1	2052.2	2311.6	3741.3	9311.2	22746.4	38178.6	38431.5	26588.2
75°	1760.4	1754.0	1773.4	1783.1	1971.2	2444.5	4814.5	16823.1	29535.3	29029.5	19254.7
77.5°	1507.6	1517.3	1507.6	1549.7	1741.0	1860.9	2444.5	11288.9	17899.5	17244.6	9664.6
80°	1238.5	1254.7	1270.9	1296.8	1488.1	1413.5	1468.7	5145.2	6620.3	6480.9	2985.9
82.5°	930.5	953.2	979.1	1040.7	1170.4	933.7	927.2	2198.1	2389.4	2188.4	1099.1
85°	376.1	444.2	671.1	732.7	735.9	512.2	570.6	917.5	975.9	953.2	431.2
87.5°	87.5	103.7	217.2	327.4	301.5	191.3	210.7	298.3	340.4	314.5	145.9
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°	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7	5553.7
2.5°	5663.9	5550.4	5355.9	5206.8	5099.8	5005.8	4947.4	4911.7	4898.8	4895.5	4898.8
5°	5855.2	5654.2	5346.2	5151.6	5044.7	4983.1	4947.4	4944.2	4947.4	4950.6	4940.9
7.5°	6117.8	5829.2	5427.2	5245.7	5164.6	5119.2	5103.0	5096.5	5099.8	5096.5	5096.5
10°	6467.9	6072.4	5586.1	5398.0	5330.0	5278.1	5252.2	5235.9	5223.0	5210.0	5203.5
12.5°	6853.7	6341.5	5757.9	5576.4	5479.1	5398.0	5339.7	5297.5	5268.4	5239.2	5232.7
15°	7284.9	6626.8	5949.2	5696.3	5556.9	5437.0	5336.4	5268.4	5216.5	5174.3	5171.1
17.5°	7696.7	6895.9	6078.9	5751.4	5547.2	5378.6	5245.7	5151.6	5086.8	5031.7	5025.2
20°	8137.6	7152.0	6137.2	5715.8	5449.9	5245.7	5070.6	4957.1	4882.6	4821.0	4811.2
22.5°	8581.8	7369.2	6130.8	5602.3	5281.3	5041.4	4856.6	4736.7	4649.1	4587.5	4564.8
25°	9006.5	7544.3	6049.7	5420.7	5047.9	4798.3	4610.2	4500.0	4422.2	4347.6	4347.6
27.5°	9389.0	7648.0	5897.3	5200.3	4808.0	4545.4	4396.2	4295.7	4224.4	4175.8	4146.6
30°	9765.1	7696.7	5689.8	4921.5	4555.1	4331.4	4211.4	4153.1	4088.3	4033.1	4026.7
32.5°	10102.3	7686.9	5430.5	4649.1	4315.2	4156.3	4107.7	4062.3	3994.2	3916.4	3897.0
35°	10429.7	7622.1	5122.5	4350.9	4114.2	4052.6	4065.6	4000.7	3877.5	3780.3	3764.0
37.5°	10786.4	7505.4	4785.3	4107.7	3945.6	4004.0	4036.4	3893.7	3692.7	3540.3	3504.7
40°	11198.1	7372.5	4435.2	3864.5	3812.7	3958.6	3958.6	3696.0	3420.4	3326.4	3300.4
42.5°	11681.2	7262.2	4143.4	3660.3	3702.4	3848.3	3832.1	3433.4	3319.9	3271.2	3258.3
45°	12446.3	7223.3	3841.9	3482.0	3611.7	3718.7	3585.7	3342.6	3277.7	3238.8	3225.9
47.5°	13655.6	7268.7	3576.0	3349.1	3507.9	3589.0	3310.2	3281.0	3235.6	3180.5	3174.0
50°	14777.4	7226.6	3388.0	3274.5	3417.1	3433.4	3196.7	3206.4	3180.5	3118.9	3105.9
52.5°	15694.9	7093.7	3268.0	3235.6	3339.3	3161.0	3089.7	3125.4	3115.6	3037.8	3024.9
55°	16703.1	7012.6	3209.6	3235.6	3287.5	2924.3	2989.2	3041.1	3028.1	2973.0	2969.7
57.5°	17925.4	7028.8	3167.5	3245.3	3235.6	2804.4	2888.7	2950.3	2947.0	2930.8	2930.8
60°	19176.8	7035.3	3102.7	3242.1	3174.0	2710.4	2784.9	2872.5	2879.0	2888.7	2888.7
62.5°	19591.8	6753.2	2976.2	3183.7	3037.8	2619.6	2687.7	2807.6	2801.1	2827.1	2830.3
65°	18817.0	5971.9	2788.2	3050.8	2862.7	2554.8	2613.1	2723.3	2687.7	2755.8	2768.7
67.5°	17127.9	4940.9	2496.4	2810.9	2668.2	2486.7	2564.5	2606.6	2541.8	2674.7	2678.0
70°	14803.3	3858.1	2126.8	2470.5	2447.8	2415.3	2525.6	2460.7	2370.0	2532.1	2499.6
72.5°	12378.2	2947.0	1698.8	2019.8	2152.7	2308.4	2457.5	2272.7	2146.3	2194.9	2136.5
75°	9298.3	2178.7	1364.9	1582.1	1792.9	2156.0	2395.9	2045.7	1851.2	1805.8	1792.9
77.5°	4739.9	1423.3	1021.3	1183.4	1345.5	1948.5	2311.6	1779.9	1533.5	1462.2	1429.8
80°	1692.4	885.1	719.7	817.0	907.8	1676.2	2019.8	1471.9	1189.8	1176.9	1189.8
82.5°	784.6	570.6	483.1	534.9	538.2	1118.5	1540.0	1099.1	904.5	1374.6	1160.7
85°	337.2	285.3	272.3	265.8	246.4	499.3	865.6	590.1	920.7	411.7	379.3
87.5°	100.5	113.5	100.5	74.6	55.1	55.1	87.5	32.4	22.7	16.2	16.2
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)