

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: P459407

Luminaire Tested: **GALN-SA8C-735-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54119 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

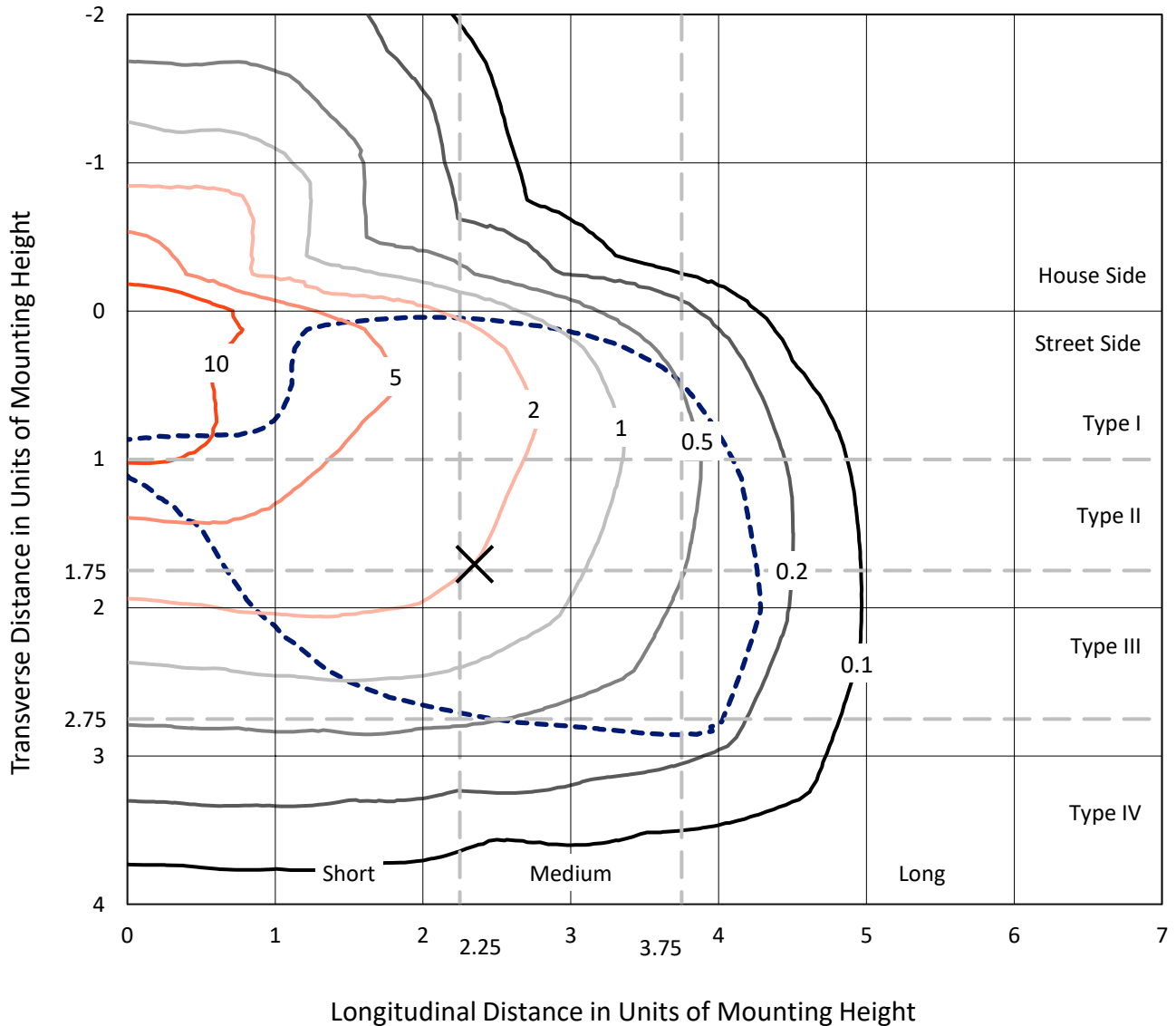
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

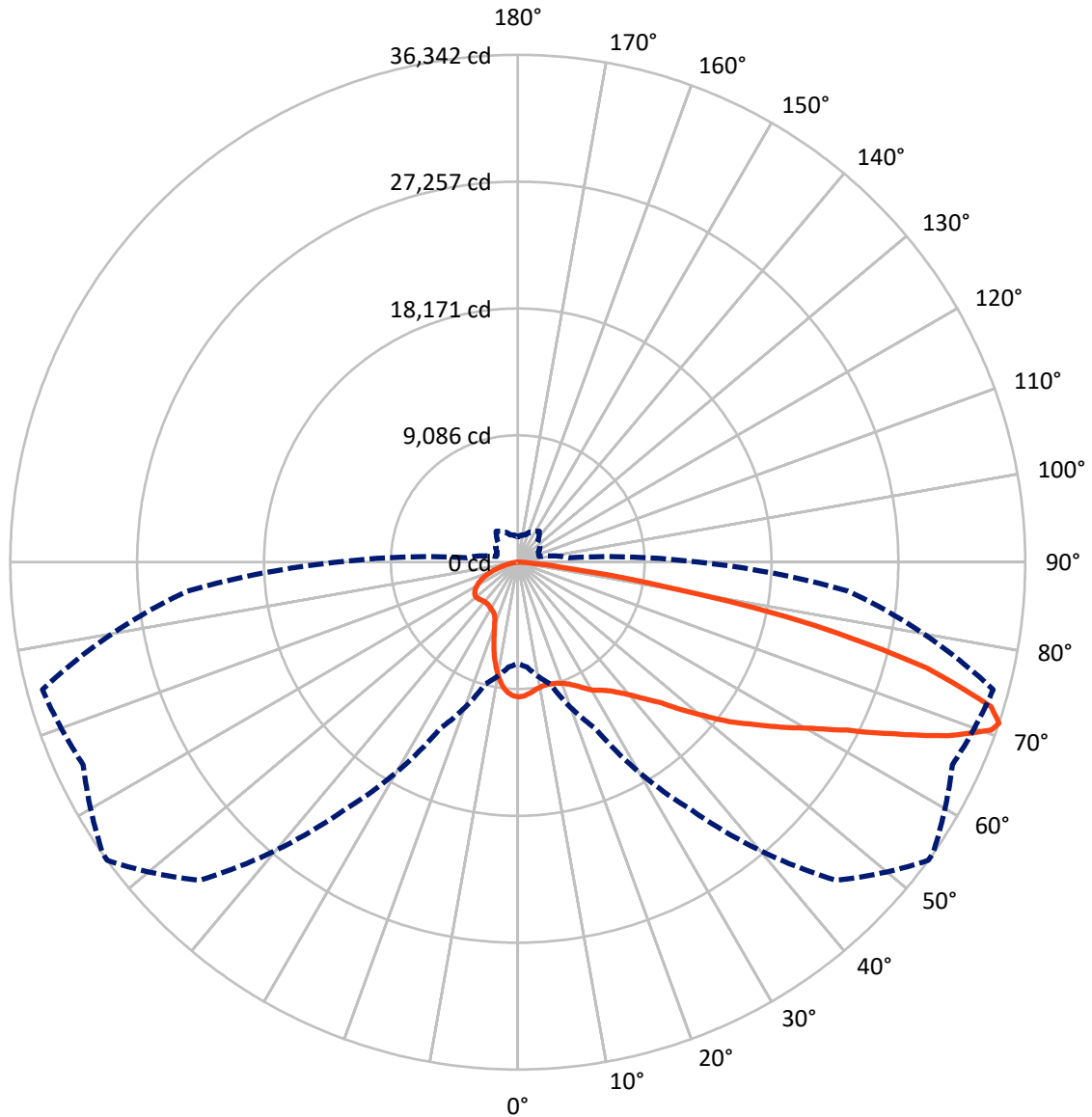
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9770.8	0.0	9770.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	44348.2	0.0	44348.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	54119.0	0.0	54119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	860.5	1.6
10°-20°	2272.1	4.2
20°-30°	3783.1	7.0
30°-40°	5593.9	10.3
40°-50°	7879.2	14.6
50°-60°	10550.6	19.5
60°-70°	13298.2	24.6
70°-80°	9082.7	16.8
80°-90°	798.8	1.5
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°	54119.0	100.0
0°-180°	54119.0	100.0

Coefficient of Utilization



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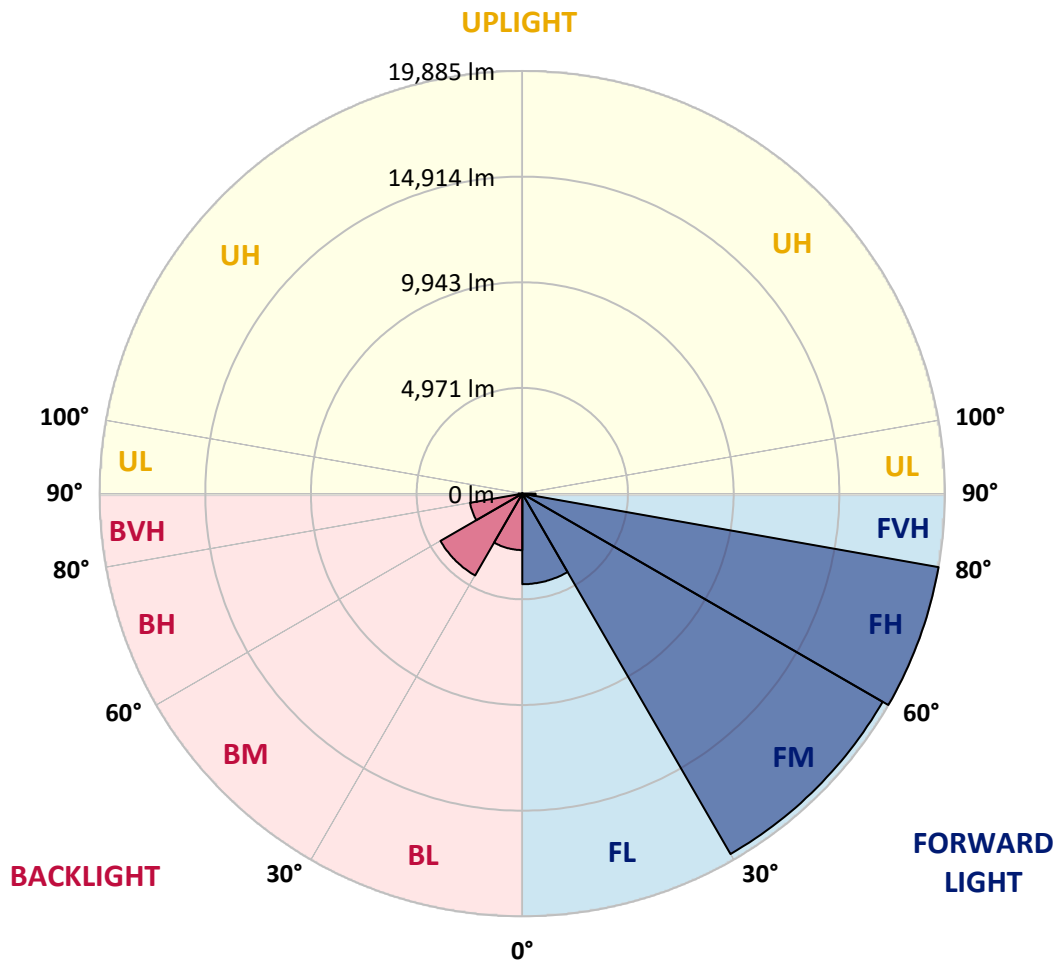
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4260.0	7.9			
FM	(30°-60°)	19578.3	36.2			
FH	(60°-80°)	19885.4	36.7			G5
FVH	(80°-90°)	624.4	1.2			G4/750
BL	(0°-30°)	2655.5	4.9	B4/5000		
BM	(30°-60°)	4445.5	8.2	B3/5000		
BH	(60°-80°)	2495.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	174.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6
2.5°	9328.2	9372.1	9383.8	9413.0	9474.4	9524.1	9573.8	9567.9	9638.1	9667.3	9693.6
5°	8913.1	8924.8	8968.7	9027.1	9135.3	9272.7	9407.2	9410.1	9582.5	9719.9	9787.2
7.5°	8609.1	8647.1	8676.3	8737.7	8851.7	9000.8	9214.2	9231.8	9538.7	9810.6	9953.8
10°	8410.3	8454.2	8486.3	8562.3	8676.3	8843.0	9073.9	9106.1	9506.5	9953.8	10205.2
12.5°	8229.1	8272.9	8302.1	8401.5	8550.6	8755.3	9015.4	9053.4	9518.2	10120.4	10480.0
15°	8340.1	8375.2	8363.5	8392.8	8492.2	8726.0	9038.8	9076.8	9562.1	10281.2	10751.9
17.5°	8834.2	8863.4	8767.0	8655.9	8609.1	8781.6	9111.9	9152.8	9649.8	10447.8	11029.6
20°	9562.1	9641.0	9430.5	9182.1	8957.0	8980.4	9263.9	9307.8	9772.6	10614.5	11313.1
22.5°	10509.2	10567.7	10310.4	9901.2	9486.1	9272.7	9491.9	9518.2	9956.7	10830.8	11623.0
25°	11623.0	11658.1	11301.4	10775.3	10176.0	9772.6	9804.7	9851.5	10260.8	11076.4	11897.8
27.5°	12704.6	12815.7	12403.5	11760.4	10971.1	10298.8	10234.4	10263.7	10591.1	11213.7	12087.8
30°	13987.9	13979.2	13543.6	12798.2	11786.7	10871.7	10640.8	10634.9	10769.4	11281.0	12225.2
32.5°	15011.1	15131.0	14704.2	13891.5	12719.2	11465.1	10921.4	10909.7	10906.8	11397.9	12429.8
35°	16174.6	16192.1	15800.4	14981.9	13727.8	12210.6	11313.1	11254.7	11187.4	11649.3	12707.5
37.5°	17215.3	17297.1	16937.5	16019.6	14718.8	12985.3	11851.0	11813.0	11608.4	12084.9	13151.9
40°	18027.9	18089.3	17873.0	16998.9	15695.2	13821.3	12535.1	12464.9	12216.4	12798.2	13745.3
42.5°	18294.0	18419.7	18504.4	18074.7	16817.7	14812.3	13377.0	13289.3	13099.3	13879.8	14429.4
45°	18314.4	18513.2	18960.5	18980.9	17946.1	15999.2	14359.2	14297.8	14283.2	15265.4	15391.1
47.5°	18159.5	18361.2	19112.5	19518.8	18951.7	17197.7	15777.0	15680.5	15689.3	16978.5	16469.8
50°	17785.3	18025.0	18937.1	19863.8	19738.1	18443.0	17273.7	17241.6	17422.8	18934.2	17589.4
52.5°	17080.8	17370.2	18755.8	20080.1	20322.7	19515.9	18975.1	18884.5	19343.4	21056.5	18814.3
55°	15131.0	15566.5	18092.2	20199.9	20878.1	20542.0	20506.9	20670.6	21278.6	23371.7	20161.9
57.5°	14113.7	14441.1	16651.1	20220.4	21579.7	21734.7	22295.9	22336.9	23400.9	25830.2	21685.0
60°	13558.2	13847.6	15861.8	20085.9	22559.0	23210.9	24125.9	24272.1	25473.6	28493.3	23263.6
62.5°	13073.0	13321.4	15388.2	19621.1	23664.0	25400.5	26496.7	26566.9	27826.8	31434.2	24821.7
65°	11930.0	12213.5	14435.2	19156.3	24617.0	28136.7	29642.2	29560.3	30332.1	33971.6	25798.0
67.5°	10389.4	10748.9	12654.9	17551.4	25087.7	31127.2	33185.2	33082.9	32805.2	35634.9	26078.7
70°	8422.0	8614.9	10377.7	14777.2	23208.0	32697.0	35982.8	35874.6	34337.0	35854.2	24751.5
71°	7246.8	7547.9	9035.9	13125.6	21644.0	32217.6	36342.4	36313.1	34339.9	35249.0	23751.7
72.5°	5656.6	5840.7	7156.2	10170.1	18396.3	29493.1	35453.7	35564.8	33594.5	33568.2	21690.8
75°	3578.1	3660.0	4490.2	5986.9	10094.1	20886.9	30264.8	30565.9	29829.3	27476.0	16130.7
77.5°	2078.5	2183.7	2689.4	3528.4	4361.6	11336.5	21655.7	21983.2	20726.1	15128.0	6603.7
80°	1210.2	1327.2	1771.5	2049.2	2002.5	4206.6	11026.7	11585.0	8974.5	3820.7	1853.4
82.5°	672.4	751.3	1245.3	1248.2	1067.0	1373.9	3469.9	3630.7	2560.8	1540.6	757.1
85°	488.2	552.5	803.9	727.9	511.6	590.5	1207.3	1265.8	1034.8	649.0	245.6
87.5°	172.5	245.6	441.4	350.8	140.3	122.8	347.9	283.6	263.1	181.2	55.5
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°	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6	9655.6
2.5°	9708.3	9714.1	9684.9	9632.2	9579.6	9512.4	9436.4	9377.9	9351.6	9348.7	9345.8
5°	9813.5	9828.1	9717.0	9553.3	9372.1	9149.9	8959.9	8743.6	8688.0	8600.3	8626.6
7.5°	9983.0	9974.3	9755.0	9407.2	8983.3	8512.6	8115.1	7884.1	7644.4	7577.2	7580.1
10°	10225.7	10170.1	9755.0	9109.0	8401.5	7702.9	7147.4	6796.7	6606.6	6448.8	6390.3
12.5°	10482.9	10342.6	9661.5	8690.9	7653.2	6796.7	6200.3	5726.7	5603.9	5475.3	5478.2
15°	10728.5	10494.6	9477.3	8103.4	6846.3	5829.0	5250.2	4966.7	4928.7	4943.3	4940.4
17.5°	10950.6	10602.8	9196.7	7448.5	5905.0	4998.8	4691.9	4712.3	4814.7	4887.7	4896.5
20°	11175.7	10667.1	8778.6	6571.6	5016.4	4496.0	4507.7	4668.5	4823.4	4922.8	4937.4
22.5°	11389.1	10696.3	8287.5	5723.8	4373.2	4282.6	4455.1	4627.6	4779.6	4876.0	4890.7
25°	11529.5	10629.1	7591.8	4838.0	4057.5	4206.6	4387.9	4534.0	4662.6	4762.0	4785.4
27.5°	11567.5	10412.8	6729.4	4121.8	3911.4	4133.5	4300.2	4408.3	4507.7	4601.3	4618.8
30°	11547.0	10094.1	5782.3	3700.9	3826.6	4048.8	4177.4	4256.3	4376.2	4449.2	4463.9
32.5°	11514.8	9722.9	4794.2	3475.8	3756.4	3969.8	4045.8	4116.0	4113.1	4083.8	4104.3
35°	11526.5	9278.5	3993.2	3341.3	3695.0	3911.4	3975.7	3888.0	3636.6	3624.9	3613.2
37.5°	11587.9	8840.0	3411.5	3247.8	3662.9	3902.6	3937.7	3534.3	3312.1	3209.8	3183.5
40°	11745.8	8328.5	3028.5	3177.6	3660.0	3969.8	3765.2	3355.9	2929.1	2730.4	2715.7
42.5°	11956.3	7825.7	2794.7	3133.8	3695.0	4072.1	3695.0	3104.5	2639.7	2522.8	2505.3
45°	12269.1	7249.8	2666.0	3113.3	3747.7	4110.1	3671.7	2920.4	2522.8	2429.3	2429.3
47.5°	12622.8	6700.2	2595.9	3098.7	3814.9	4083.8	3464.1	2861.9	2467.3	2479.0	2534.5
50°	12973.6	6223.7	2543.3	3066.5	3873.4	4069.2	3379.3	2859.0	2481.9	2631.0	2730.4
52.5°	13379.9	5887.5	2479.0	3013.9	3873.4	3975.7	3353.0	2917.4	2522.8	2566.6	2610.5
55°	13871.0	5782.3	2397.1	2899.9	3803.2	3741.8	3338.4	3002.2	2552.0	2449.7	2467.3
57.5°	14520.0	5951.8	2318.2	2756.7	3642.4	3499.2	3332.6	3025.6	2484.8	2400.0	2382.5
60°	15274.2	6288.0	2294.8	2610.5	3423.2	3291.6	3297.5	2958.4	2391.3	2303.6	2318.2
62.5°	15803.3	6489.7	2280.2	2499.4	3183.5	3063.6	3212.7	2876.5	2350.3	2274.3	2288.9
65°	15803.3	6244.2	2145.7	2329.9	2873.6	2788.8	3110.4	2774.2	2297.7	2210.0	2195.4
67.5°	15204.0	5527.9	1941.1	2075.5	2531.6	2476.0	2967.1	2651.4	2218.8	2151.5	2116.5
70°	13643.0	4192.0	1683.8	1777.4	2098.9	2148.6	2783.0	2484.8	2087.2	2005.4	1952.8
71°	12956.0	3651.2	1575.7	1625.3	1932.3	2005.4	2695.3	2414.6	2028.8	1911.8	1818.3
72.5°	11631.8	3075.3	1411.9	1432.4	1651.7	1783.2	2511.1	2280.2	1917.7	1751.1	1645.8
75°	8837.1	2245.1	1137.2	1125.5	1221.9	1414.9	2125.2	2031.7	1680.9	1455.8	1394.4
77.5°	3817.8	1221.9	850.7	859.4	830.2	1072.8	1672.1	1745.2	1441.2	1183.9	1128.4
80°	1157.6	704.5	581.7	593.4	555.4	719.1	1178.1	1368.1	1157.6	920.8	844.8
82.5°	593.4	421.0	397.6	391.7	353.7	406.3	713.3	935.5	827.3	575.9	508.7
85°	257.2	225.1	195.9	190.0	166.6	146.2	254.3	467.7	438.5	321.6	306.9
87.5°	64.3	58.5	38.0	35.1	20.5	2.9	0.0	0.0	0.0	0.0	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)