

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: P459519

Luminaire Tested: **GALN-SA9C-735-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459519  
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-SA9C-735-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 60508 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

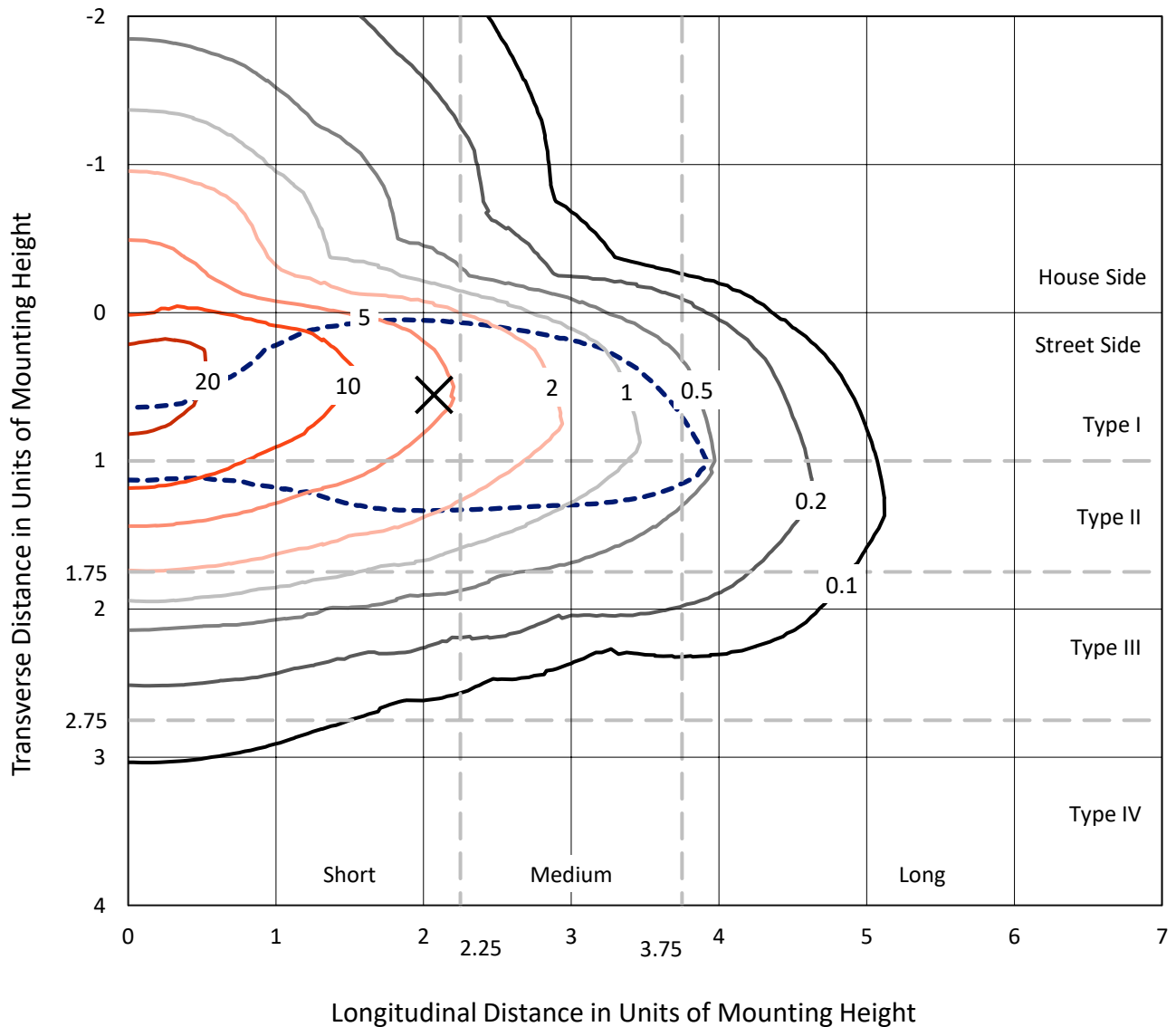
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

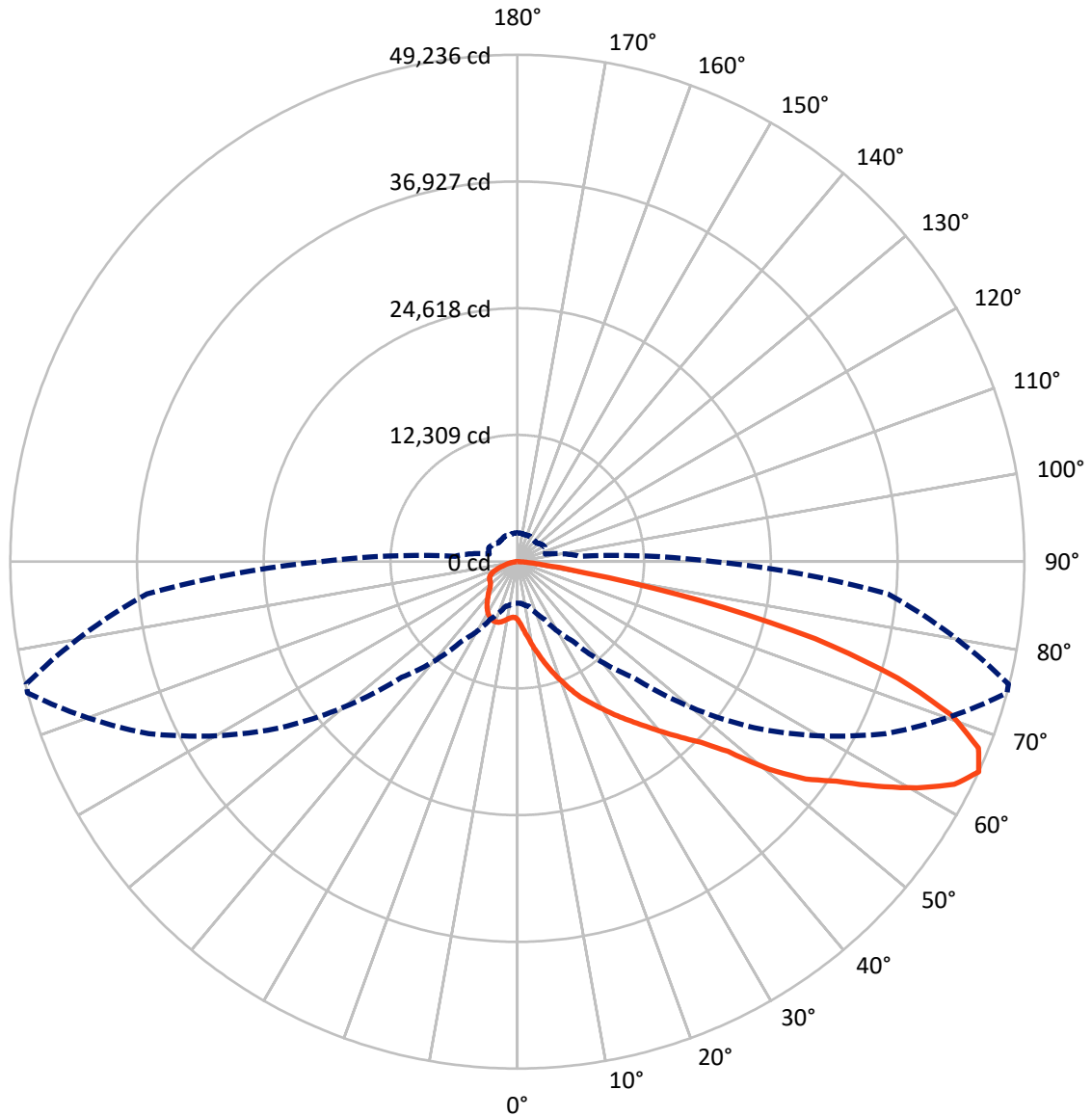
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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	10172.2	0.0	10172.2
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	50335.8	0.0	50335.8
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	60508.0	0.0	60508.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.1	1.1
10°-20°	2675.4	4.4
20°-30°	5168.0	8.5
30°-40°	8394.4	13.9
40°-50°	11547.2	19.1
50°-60°	13633.4	22.5
60°-70°	11945.1	19.7
70°-80°	5702.7	9.4
80°-90°	758.8	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°	60508.0	100.0
0°-180°	60508.0	100.0

**Coefficient of Utilization**



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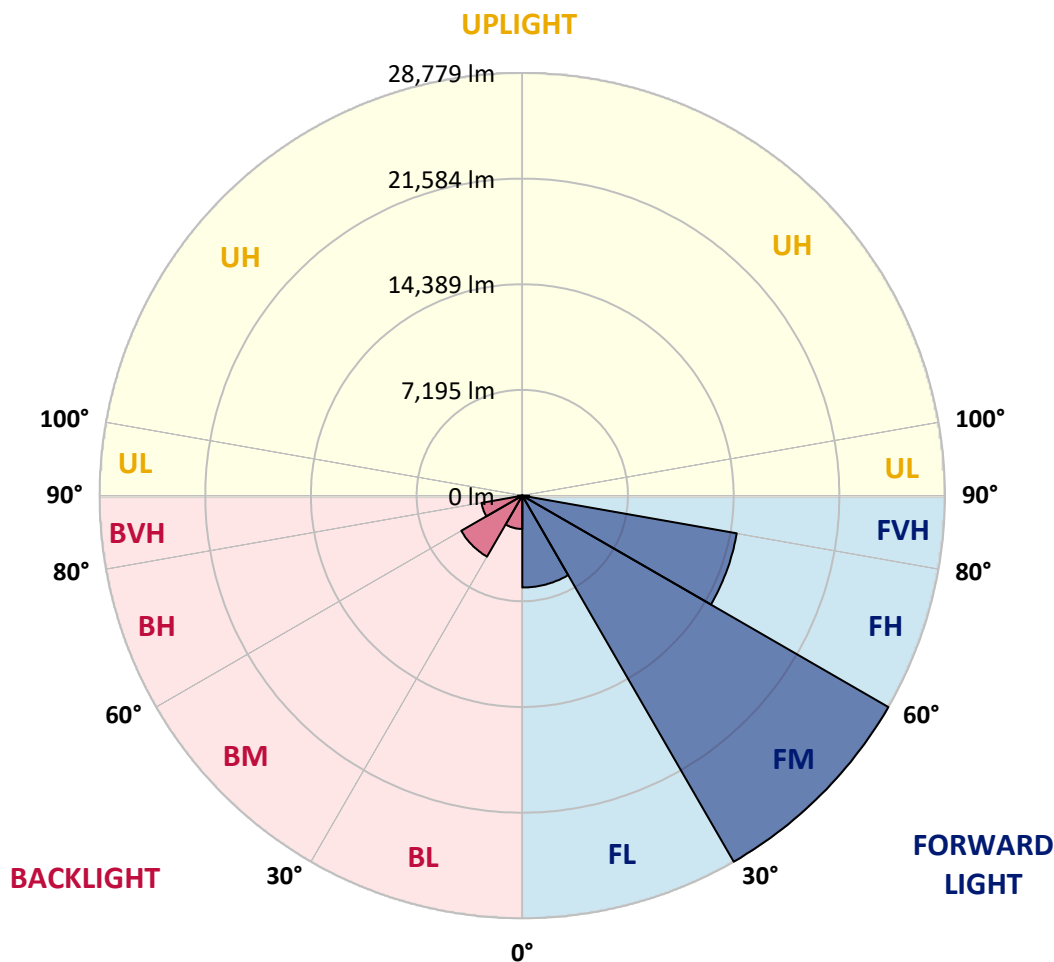
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6255.6	10.3			
FM	(30°-60°)	28778.9	47.6			
FH	(60°-80°)	14827.2	24.5			G5
FVH	(80°-90°)	474.2	0.8			G3/500
BL	(0°-30°)	2270.9	3.8	B3/2500		
BM	(30°-60°)	4796.1	7.9	B3/5000		
BH	(60°-80°)	2820.6	4.7	B4/5000		G4/5000
BVH	(80°-90°)	284.6	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°	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0
2.5°	7469.7	7420.5	7367.9	7223.5	7069.3	6895.3	6645.9	6406.3	6088.0	6078.1	5841.8
5°	9540.6	9507.8	9274.8	9140.2	8782.5	8306.6	7902.9	7276.1	6695.2	6626.2	6166.8
7.5°	11444.1	11316.1	11227.5	10984.6	10630.2	10019.8	9238.7	8391.9	7420.5	7328.6	6567.2
10°	12878.3	12865.2	12819.2	12609.2	12343.4	11736.2	10869.8	9655.5	8339.4	8158.9	7052.9
12.5°	13951.5	13961.4	13954.8	13951.5	13761.2	13245.9	12307.3	11027.3	9268.2	9140.2	7614.1
15°	14657.1	14755.6	14795.0	14959.1	14975.5	14630.9	13823.5	12353.2	10315.1	10124.8	8218.0
17.5°	15123.2	15172.4	15356.2	15635.1	15861.6	15799.2	15080.5	13580.7	11385.0	11066.7	8844.8
20°	15569.5	15654.8	15796.0	16176.7	16577.1	16760.9	16255.4	14837.6	12445.1	12241.6	9537.3
22.5°	16498.3	16619.7	16669.0	16862.6	17203.9	17528.8	17299.1	16042.1	13606.9	13331.2	10272.5
25°	18070.3	18198.3	18060.5	18014.6	18126.1	18287.0	18237.7	17177.7	14703.1	14309.2	10968.2
27.5°	20118.3	20134.7	19865.6	19609.6	19333.9	19251.8	19100.9	18185.2	15654.8	15326.6	11667.3
30°	22317.2	22238.4	21792.1	21329.3	20863.3	20403.8	19970.6	19156.7	16714.9	16337.5	12353.2
32.5°	24358.5	24315.9	23820.3	23101.6	22313.9	21880.7	21004.4	20138.0	17850.5	17486.2	13058.8
35°	25887.9	25950.3	25405.5	24621.1	23761.2	23377.2	22271.2	21168.5	19025.4	18628.3	13826.8
37.5°	26974.2	26941.4	26459.0	25779.6	25024.8	24690.0	23751.4	22294.2	20288.9	19908.2	14667.0
40°	27361.5	27341.8	26984.1	26488.5	26009.3	25891.2	25300.4	23508.5	21736.3	21289.9	15677.8
42.5°	27115.4	27158.0	26921.7	26787.2	26698.6	26783.9	26839.7	25100.3	23314.9	22904.6	16774.0
45°	26360.5	26337.5	26304.7	26524.6	27023.5	27584.7	28362.5	26603.4	25031.3	24703.1	18244.3
47.5°	25011.6	25175.7	25257.8	25864.9	26954.5	28283.7	30115.1	28618.5	27522.3	27236.8	20485.8
50°	23124.5	23255.8	23741.5	24821.3	26445.8	28546.3	31828.2	31913.6	31677.3	31142.3	22921.0
52.5°	20177.3	20380.8	21381.8	23360.8	25402.2	28438.0	32865.3	34739.3	35051.1	34650.7	25320.1
55°	16879.0	17164.5	18221.3	20817.3	23964.7	27847.2	33580.8	36377.0	37620.8	37250.0	27630.6
57.5°	13649.6	13951.5	15037.8	17551.8	21457.3	26541.0	34050.1	38201.7	41119.4	40636.9	30505.6
60°	10229.8	10544.9	11476.9	14066.4	17886.6	23987.7	33731.7	39783.6	44614.6	44407.9	33383.9
62.5°	6600.0	6947.9	7758.5	9901.6	13748.0	20499.0	32028.4	40656.6	47640.6	47391.2	35484.3
65°	4020.4	4059.8	4506.1	6147.1	9409.3	15871.4	28132.8	39498.1	49235.6	49160.1	36124.3
67.5°	2599.3	2661.7	2865.1	3682.3	5641.6	11024.0	22494.4	35674.7	48303.5	48277.3	34801.7
70°	2195.6	2215.3	2307.2	2484.4	3278.7	6685.3	15796.0	29580.1	44762.3	44762.3	31621.5
72.5°	1962.6	1988.9	2021.7	2077.5	2340.0	3787.4	9425.7	23026.1	38648.1	38904.1	26915.2
75°	1782.1	1775.5	1795.2	1805.1	1995.4	2474.6	4873.7	17030.0	29898.4	29386.5	19491.4
77.5°	1526.1	1535.9	1526.1	1568.8	1762.4	1883.8	2474.6	11427.7	18119.6	17456.6	9783.5
80°	1253.7	1270.1	1286.5	1312.8	1506.4	1430.9	1486.7	5208.4	6701.7	6560.6	3022.7
82.5°	941.9	964.9	991.1	1053.5	1184.8	945.2	938.6	2225.2	2418.8	2215.3	1112.6
85°	380.7	449.6	679.4	741.7	745.0	518.5	577.6	928.8	987.9	964.9	436.5
87.5°	88.6	105.0	219.9	331.5	305.2	193.6	213.3	301.9	344.6	318.3	147.7
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°	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0	5622.0
2.5°	5733.5	5618.7	5421.8	5270.8	5162.5	5067.3	5008.2	4972.1	4959.0	4955.7	4959.0
5°	5927.2	5723.7	5411.9	5215.0	5106.7	5044.3	5008.2	5005.0	5008.2	5011.5	5001.7
7.5°	6193.0	5900.9	5494.0	5310.2	5228.1	5182.2	5165.8	5159.2	5162.5	5159.2	5159.2
10°	6547.5	6147.1	5654.8	5464.4	5395.5	5343.0	5316.7	5300.3	5287.2	5274.1	5267.5
12.5°	6938.0	6419.5	5828.7	5644.9	5546.5	5464.4	5405.3	5362.7	5333.1	5303.6	5297.0
15°	7374.5	6708.3	6022.4	5766.4	5625.2	5503.8	5402.1	5333.1	5280.6	5238.0	5234.7
17.5°	7791.3	6980.7	6153.6	5822.2	5615.4	5444.7	5310.2	5215.0	5149.4	5093.6	5087.0
20°	8237.7	7240.0	6212.7	5786.1	5516.9	5310.2	5132.9	5018.1	4942.6	4880.2	4870.4
22.5°	8687.3	7459.8	6206.1	5671.2	5346.3	5103.4	4916.3	4794.9	4706.3	4643.9	4621.0
25°	9117.2	7637.1	6124.1	5487.4	5110.0	4857.3	4666.9	4555.3	4476.6	4401.1	4401.1
27.5°	9504.5	7742.1	5969.8	5264.2	4867.1	4601.3	4450.3	4348.6	4276.4	4227.1	4197.6
30°	9885.2	7791.3	5759.8	4982.0	4611.1	4384.7	4263.2	4204.2	4138.5	4082.7	4076.2
32.5°	10226.5	7781.5	5497.2	4706.3	4368.3	4207.4	4158.2	4112.3	4043.3	3964.6	3944.9
35°	10558.0	7715.8	5185.5	4404.4	4164.8	4102.4	4115.5	4049.9	3925.2	3826.7	3810.3
37.5°	10919.0	7597.7	4844.1	4158.2	3994.1	4053.2	4086.0	3941.6	3738.1	3583.9	3547.8
40°	11335.8	7463.1	4489.7	3912.1	3859.6	4007.2	4007.2	3741.4	3462.4	3367.3	3341.0
42.5°	11824.8	7351.5	4194.3	3705.3	3748.0	3895.7	3879.2	3475.6	3360.7	3311.5	3298.3
45°	12599.4	7312.2	3889.1	3524.8	3656.1	3764.4	3629.8	3383.7	3318.0	3278.7	3265.5
47.5°	13823.5	7358.1	3620.0	3390.2	3551.1	3633.1	3350.9	3321.3	3275.4	3219.6	3213.0
50°	14959.1	7315.4	3429.6	3314.8	3459.2	3475.6	3236.0	3245.8	3219.6	3157.2	3144.1
52.5°	15887.9	7180.9	3308.2	3275.4	3380.4	3199.9	3127.7	3163.8	3153.9	3075.2	3062.0
55°	16908.5	7098.8	3249.1	3275.4	3327.9	2960.3	3025.9	3078.5	3065.3	3009.5	3006.3
57.5°	18145.8	7115.2	3206.5	3285.2	3275.4	2838.9	2924.2	2986.6	2983.3	2966.9	2966.9
60°	19412.7	7121.8	3140.8	3281.9	3213.0	2743.7	2819.2	2907.8	2914.4	2924.2	2924.2
62.5°	19832.7	6836.3	3012.8	3222.9	3075.2	2651.8	2720.7	2842.2	2835.6	2861.8	2865.1
65°	19048.4	6045.3	2822.5	3088.3	2898.0	2586.2	2645.2	2756.8	2720.7	2789.6	2802.8
67.5°	17338.5	5001.7	2527.1	2845.4	2701.0	2517.2	2596.0	2638.7	2573.0	2707.6	2710.9
70°	14985.3	3905.5	2153.0	2500.8	2477.9	2445.0	2556.6	2491.0	2399.1	2563.2	2530.4
72.5°	12530.4	2983.3	1719.7	2044.6	2179.2	2336.7	2487.7	2300.6	2172.6	2221.9	2162.8
75°	9412.6	2205.5	1381.7	1601.6	1814.9	2182.5	2425.4	2070.9	1874.0	1828.0	1814.9
77.5°	4798.2	1440.8	1033.8	1197.9	1362.0	1972.4	2340.0	1801.8	1552.4	1480.2	1447.3
80°	1713.2	896.0	728.6	827.0	918.9	1696.8	2044.6	1490.0	1204.5	1191.3	1204.5
82.5°	794.2	577.6	489.0	541.5	544.8	1132.3	1558.9	1112.6	915.7	1391.5	1174.9
85°	341.3	288.8	275.7	269.1	249.4	505.4	876.3	597.3	932.1	416.8	384.0
87.5°	101.7	114.9	101.7	75.5	55.8	55.8	88.6	32.8	23.0	16.4	16.4
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)