

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: P457429

Luminaire Tested: **GALN-SA8D-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457429  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57215 lumens  
Efficiency: N/A  
Efficacy: 116.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G5

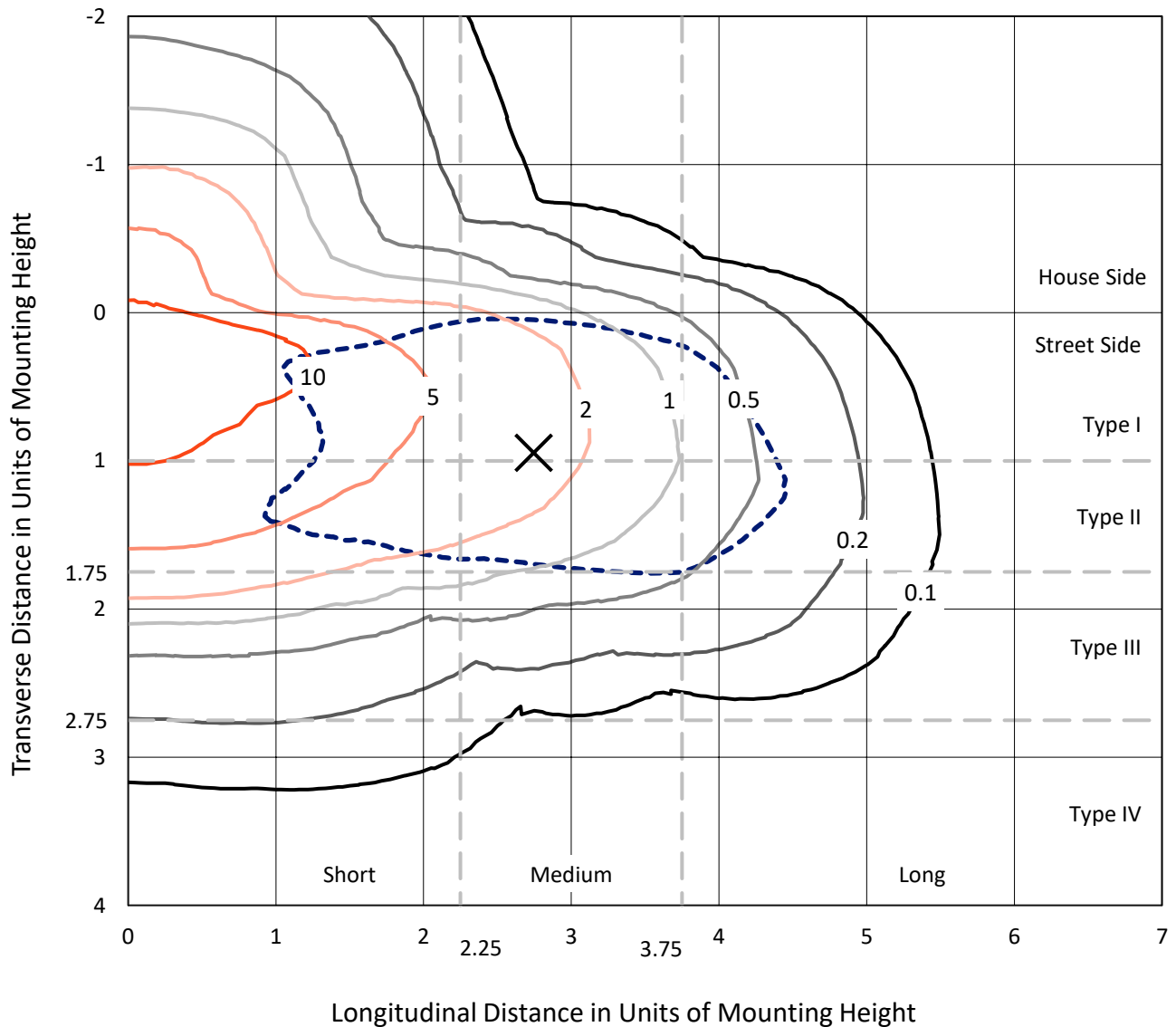
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

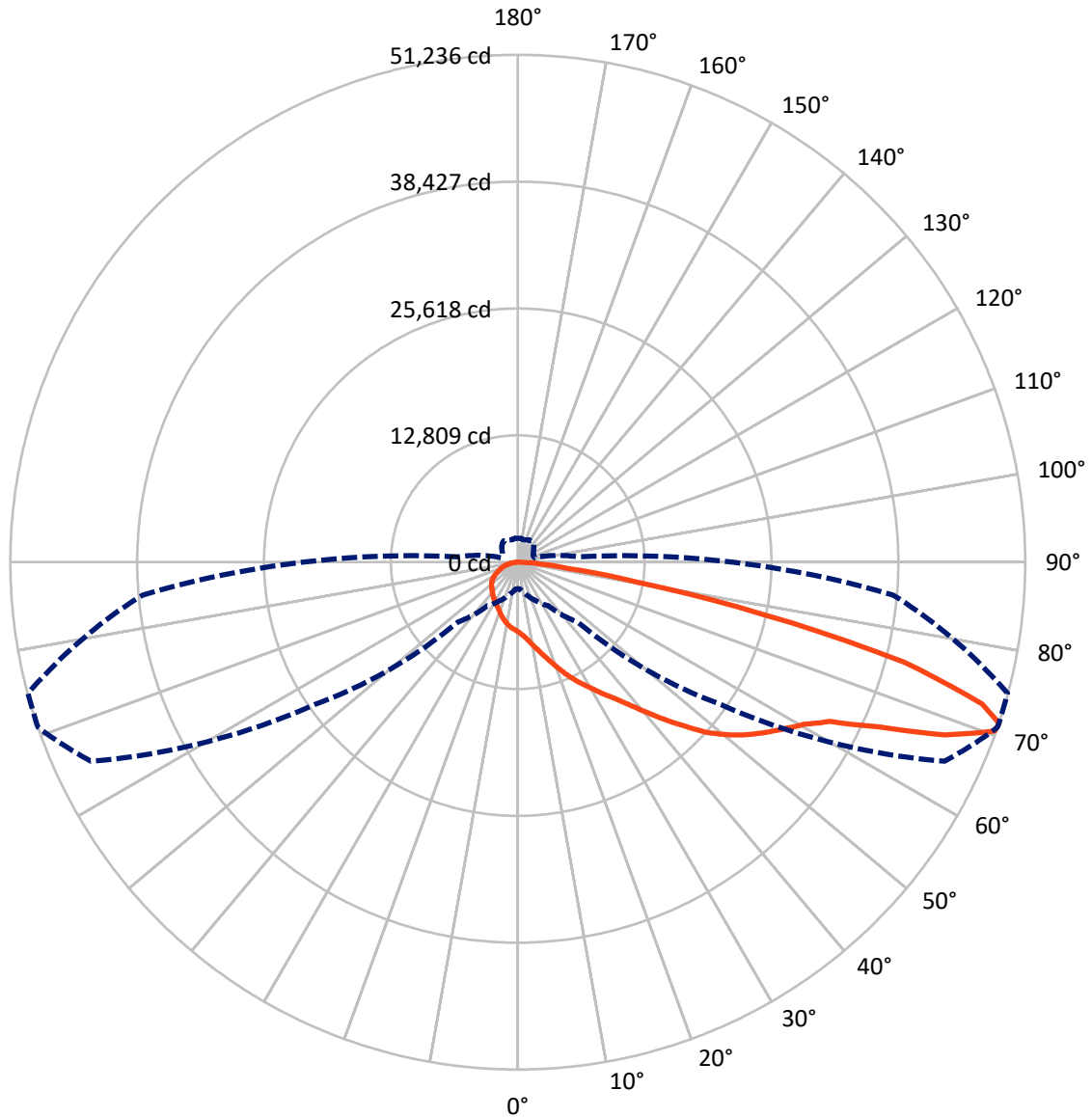
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10290.0	0.0	10290.0
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	46925.0	0.0	46925.0
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	57215.0	0.0	57215.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	705.1	1.2
10°-20°	2290.7	4.0
20°-30°	4003.1	7.0
30°-40°	5954.2	10.4
40°-50°	8772.7	15.3
50°-60°	12281.9	21.5
60°-70°	13736.9	24.0
70°-80°	8391.0	14.7
80°-90°	1079.4	1.9
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°	57215.0	100.0
0°-180°	57215.0	100.0

**Coefficient of Utilization**



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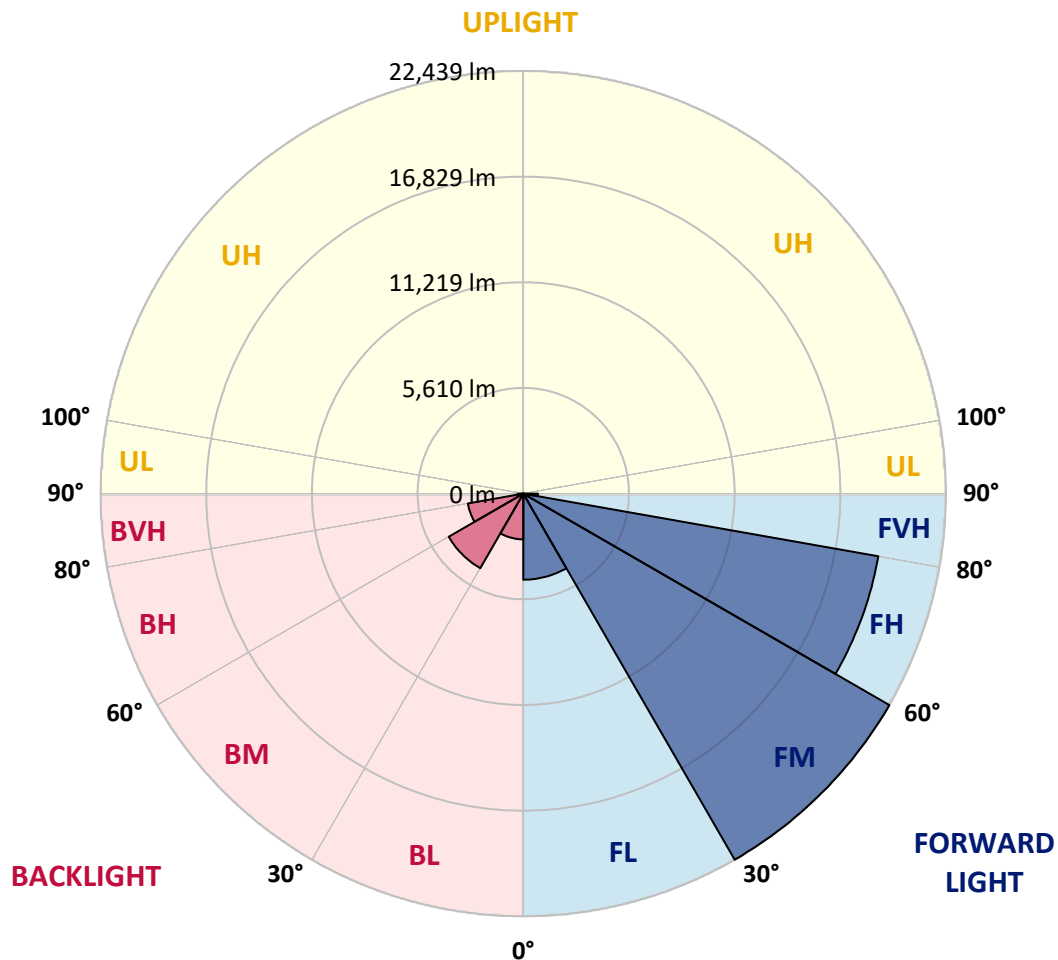
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4571.5	8.0			
FM	(30°-60°)	22438.6	39.2			
FH	(60°-80°)	19138.2	33.4			G5
FVH	(80°-90°)	776.7	1.4			G5
BL	(0°-30°)	2427.4	4.2	B3/2500		
BM	(30°-60°)	4570.2	8.0	B3/5000		
BH	(60°-80°)	2989.7	5.2	B4/5000		G4/5000
BVH	(80°-90°)	302.7	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0
2.5°	7795.6	7757.9	7761.0	7707.5	7638.4	7562.9	7456.0	7361.6	7286.2	7242.1	7113.2
5°	8638.4	8600.6	8553.5	8437.1	8386.8	8201.3	7965.4	7751.6	7588.1	7496.9	7239.0
7.5°	9320.8	9311.3	9298.7	9232.7	9103.8	8845.9	8644.7	8273.6	8031.4	7858.5	7418.2
10°	9742.1	9757.9	9767.3	9779.9	9726.4	9591.2	9314.5	8845.9	8537.7	8317.6	7650.9
12.5°	9956.0	9971.7	10025.2	10141.5	10213.8	10198.1	9971.7	9512.6	9088.1	8798.7	7899.4
15°	10088.1	10113.2	10207.5	10361.6	10603.8	10757.9	10647.8	10223.3	9757.9	9415.1	8195.0
17.5°	10232.7	10261.0	10364.8	10584.9	10902.5	11235.8	11355.3	10990.6	10484.3	10075.5	8525.2
20°	10314.5	10352.2	10500.0	10789.3	11160.4	11644.7	12040.9	11849.1	11295.6	10842.8	8905.7
22.5°	10446.5	10478.0	10603.8	10911.9	11355.3	11962.3	12726.4	12685.5	12198.1	11613.2	9323.9
25°	10805.0	10855.3	10918.2	11103.8	11531.4	12286.2	13295.6	13578.6	13072.3	12418.2	9707.5
27.5°	11481.1	11522.0	11518.9	11544.0	11786.2	12566.0	13789.3	14462.3	13940.3	13232.7	10078.6
30°	12251.6	12267.3	12279.9	12223.3	12276.7	12852.2	14242.1	15336.5	14814.5	14069.2	10402.5
32.5°	13188.7	13220.1	13113.2	12968.6	12924.5	13276.7	14616.4	16210.7	15849.1	14918.2	10723.3
35°	14295.6	14377.4	14160.4	13905.7	13726.4	13886.8	15119.5	17103.8	16908.8	16003.1	11147.8
37.5°	15559.7	15660.4	15459.1	14959.1	14704.4	14748.4	15776.7	18207.5	18248.4	17239.0	11779.9
40°	16594.3	16726.4	16732.7	16025.2	15638.4	15688.7	16610.1	19396.2	19864.8	18767.3	12525.2
42.5°	17276.7	17405.7	17540.9	17125.8	16720.1	17006.3	17581.8	20685.5	21682.4	20622.6	13566.0
45°	18025.2	18141.5	18217.0	18028.3	17801.9	18544.0	18754.7	22056.6	23619.5	22695.0	14704.4
47.5°	18893.1	19022.0	19094.3	18915.1	18830.2	19893.1	20018.9	23336.5	25688.7	24707.5	15962.3
50°	20050.3	20147.8	20110.1	19996.9	19978.0	20927.7	21232.7	24534.6	27396.2	26874.2	17267.3
52.5°	21490.6	21606.9	21647.8	21487.4	21415.1	21666.7	22210.7	25625.8	28949.7	28735.8	18660.4
55°	22361.6	22547.2	23169.8	23421.4	23594.3	22622.6	23264.2	26830.2	30342.8	30698.1	20157.2
57.5°	21245.3	21484.3	22877.4	24135.2	25761.0	25012.6	24757.9	28088.1	31735.8	32600.6	21949.7
60°	18522.0	18575.5	20371.1	22688.7	25959.1	28084.9	27874.2	30088.1	33245.3	34518.9	24311.3
62.5°	12849.1	12962.3	15084.9	18783.0	23512.6	29191.8	33176.1	33540.9	35408.8	37389.9	27773.6
65°	6625.8	6478.0	8411.9	11805.0	17726.4	26562.9	37471.7	39889.9	40100.6	41880.5	32647.8
67.5°	4078.6	4144.7	5050.3	6893.1	10481.1	19305.0	37022.0	47647.8	46537.7	47393.1	37173.0
70°	3062.9	3144.7	3767.3	4717.0	6389.9	11037.7	29773.6	49528.3	51078.6	50858.5	38550.3
71°	2663.5	2748.4	3396.2	4292.5	5367.9	8518.9	25084.9	47559.7	51235.8	51198.1	38031.4
72.5°	2270.4	2323.9	2830.2	3635.2	4525.2	5971.7	18845.9	42654.1	49050.3	50305.0	36179.2
75°	1783.0	1823.9	2050.3	2773.6	3562.9	3666.7	10113.2	31978.0	40286.2	42676.1	30119.5
77.5°	1452.8	1481.1	1597.5	2059.7	2748.4	2597.5	5305.0	20814.5	25239.0	27644.7	17742.1
80°	1154.1	1185.5	1254.7	1396.2	2059.7	1852.2	2531.4	10547.2	12191.8	12166.7	7081.8
82.5°	896.2	905.7	987.4	1025.2	1408.8	1314.5	1371.1	4465.4	4946.5	5110.1	2556.6
85°	566.0	594.3	874.2	786.2	842.8	770.4	676.1	1773.6	2185.5	2154.1	1022.0
87.5°	173.0	182.4	295.6	333.3	374.2	336.5	248.4	522.0	638.4	691.8	254.7
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°	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0	7022.0
2.5°	7062.9	7028.3	6905.7	6805.0	6710.7	6606.9	6518.9	6493.7	6471.7	6462.3	6459.1
5°	7128.9	7025.2	6783.0	6584.9	6427.7	6283.0	6191.8	6150.9	6110.1	6110.1	6122.6
7.5°	7223.3	7034.6	6660.4	6364.8	6166.7	6031.4	5965.4	5959.1	5968.6	5978.0	5981.1
10°	7327.0	7028.3	6481.1	6113.2	5937.1	5874.2	5877.4	5930.8	5981.1	6018.9	6025.2
12.5°	7427.7	6990.6	6270.4	5877.4	5764.2	5776.7	5864.8	5984.3	6081.8	6135.2	6138.4
15°	7540.9	6930.8	6015.7	5654.1	5616.4	5713.8	5877.4	6059.7	6207.5	6295.6	6305.0
17.5°	7635.2	6830.2	5748.4	5437.1	5484.3	5663.5	5889.9	6125.8	6305.0	6415.1	6434.0
20°	7742.1	6701.3	5471.7	5229.6	5364.8	5606.9	5864.8	6119.5	6305.0	6411.9	6437.1
22.5°	7827.0	6518.9	5207.5	5059.7	5257.9	5537.7	5779.9	5984.3	6135.2	6191.8	6229.6
25°	7861.6	6289.3	4959.1	4921.4	5173.0	5424.5	5588.1	5704.4	5751.6	5745.3	5761.0
27.5°	7842.8	6025.2	4745.3	4811.3	5066.0	5248.4	5330.2	5320.8	5235.8	5157.2	5195.0
30°	7764.2	5710.7	4566.0	4698.1	4927.7	5028.3	5015.7	4893.1	4732.7	4584.9	4594.3
32.5°	7622.6	5371.1	4399.4	4569.2	4732.7	4776.7	4691.8	4531.4	4301.9	4110.1	4081.8
35°	7503.1	5047.2	4251.6	4421.4	4537.7	4515.7	4434.0	4226.4	4018.9	3849.1	3820.8
37.5°	7484.3	4770.4	4110.1	4254.7	4320.8	4289.3	4188.7	4012.6	3937.1	3808.2	3792.5
40°	7584.9	4575.5	3965.4	4078.6	4110.1	4084.9	3974.8	3874.2	3943.4	3911.9	3911.9
42.5°	7858.5	4471.7	3836.5	3902.5	3927.7	3946.5	3867.9	3783.0	3867.9	3723.3	3676.1
45°	8292.5	4474.8	3720.1	3729.6	3805.0	3871.1	3817.6	3691.8	3647.8	3358.5	3301.9
47.5°	8930.8	4581.8	3625.8	3566.0	3701.3	3811.3	3735.8	3553.5	3358.5	3166.7	3132.1
50°	9676.1	4773.6	3540.9	3396.2	3562.9	3735.8	3679.2	3465.4	3264.2	3147.8	3125.8
52.5°	10503.1	5015.7	3437.1	3207.5	3393.1	3701.3	3691.8	3452.8	3176.1	3097.5	3078.6
55°	11525.2	5254.7	3308.2	2987.4	3242.1	3673.0	3657.2	3349.1	3157.2	3100.6	3094.3
57.5°	12713.8	5600.6	3122.6	2764.2	3069.2	3556.6	3522.0	3286.2	3094.3	3053.5	3050.3
60°	14628.9	6138.4	2858.5	2559.7	2893.1	3352.2	3396.2	3179.2	2993.7	2984.3	2981.1
62.5°	17147.8	6893.1	2584.9	2349.1	2688.7	3088.1	3213.8	3034.6	2886.8	2934.0	2940.3
65°	20625.8	7528.3	2301.9	2169.8	2462.3	2833.3	3040.9	2899.4	2767.3	2858.5	2858.5
67.5°	22893.1	7540.9	2044.0	1984.3	2232.7	2619.5	2858.5	2739.0	2613.2	2767.3	2773.6
70°	22421.4	6606.9	1830.2	1789.3	2009.4	2389.9	2657.2	2562.9	2418.2	2556.6	2506.3
71°	21660.4	6088.1	1745.3	1713.8	1921.4	2279.9	2562.9	2484.3	2339.6	2430.8	2402.5
72.5°	20446.5	5286.2	1606.9	1613.2	1789.3	2141.5	2430.8	2349.1	2204.4	2254.7	2245.3
75°	17283.0	4616.4	1374.2	1402.5	1537.7	1905.7	2166.7	2103.8	1956.0	1956.0	1946.5
77.5°	10805.0	3226.4	1141.5	1157.2	1305.0	1632.1	1861.6	1808.2	1666.7	1619.5	1606.9
80°	4031.4	1666.7	893.1	911.9	1003.1	1286.2	1540.9	1490.6	1345.9	1292.5	1242.1
82.5°	1525.2	836.5	657.2	641.5	739.0	981.1	1207.5	1147.8	1034.6	905.7	867.9
85°	575.5	415.1	402.5	389.9	434.0	581.8	748.4	735.8	616.4	525.2	515.7
87.5°	150.9	135.2	157.2	116.4	122.6	110.1	113.2	47.2	22.0	9.4	6.3
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)