

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: P459438

Luminaire Tested: **GALN-SA8D-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459438  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 58064 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

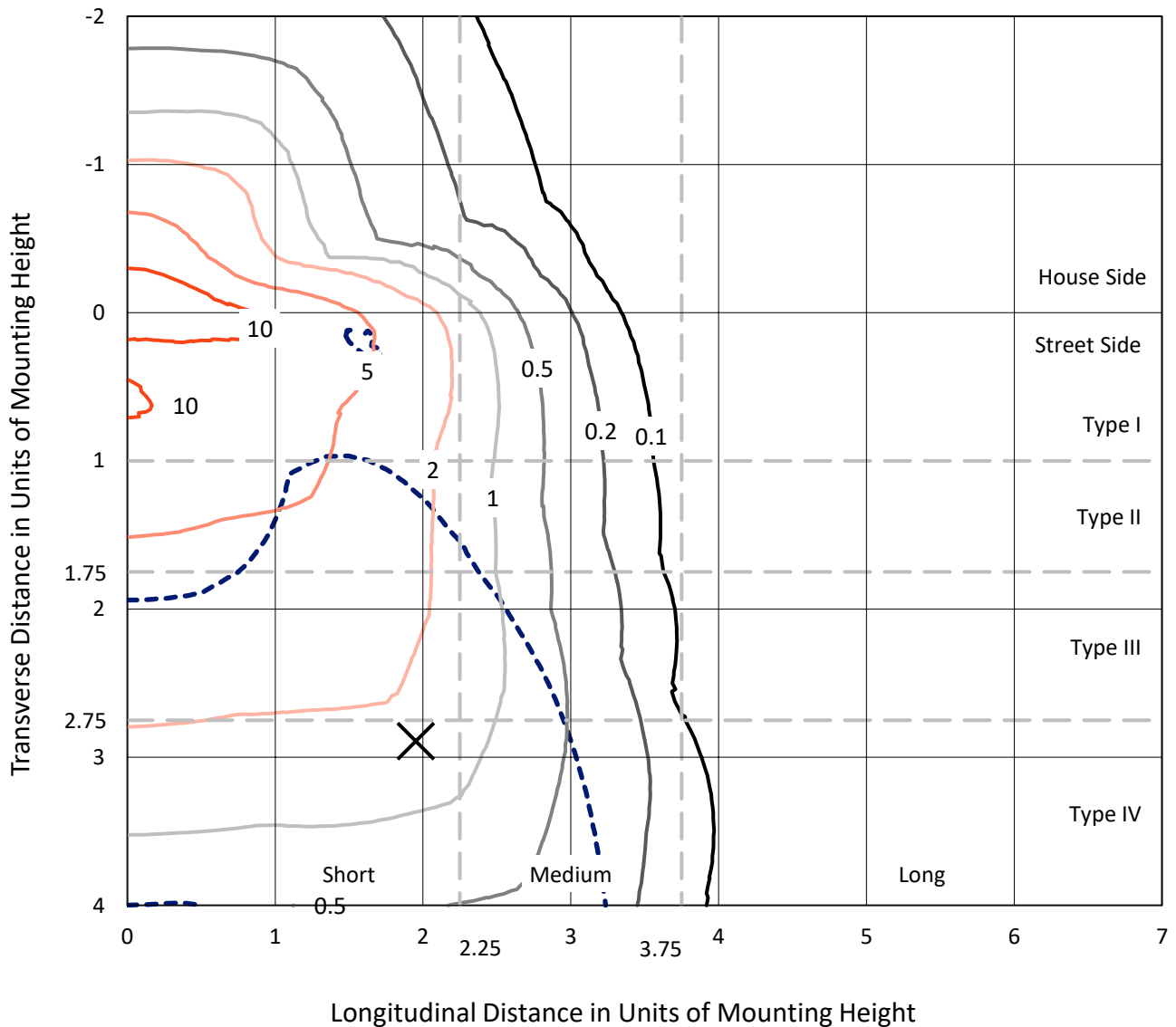
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

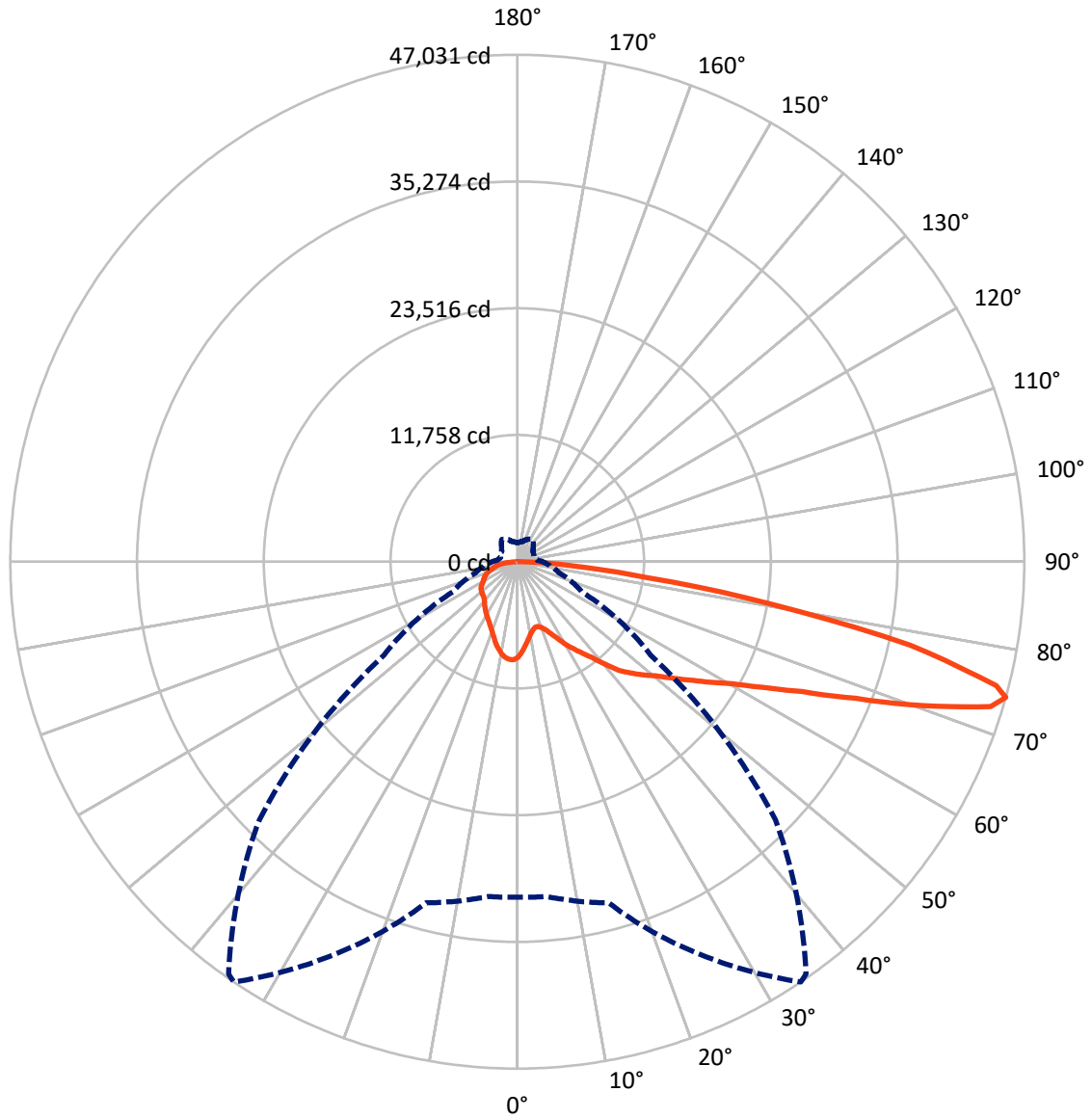
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral    - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12356.4	0.0	12356.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	45707.6	0.0	45707.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	58064.0	0.0	58064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	806.3	1.4
10°-20°	2207.1	3.8
20°-30°	3638.9	6.3
30°-40°	5450.7	9.4
40°-50°	7923.8	13.6
50°-60°	11067.7	19.1
60°-70°	13856.1	23.9
70°-80°	11457.9	19.7
80°-90°	1655.6	2.9
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°	58064.0	100.0
0°-180°	58064.0	100.0

**Coefficient of Utilization**



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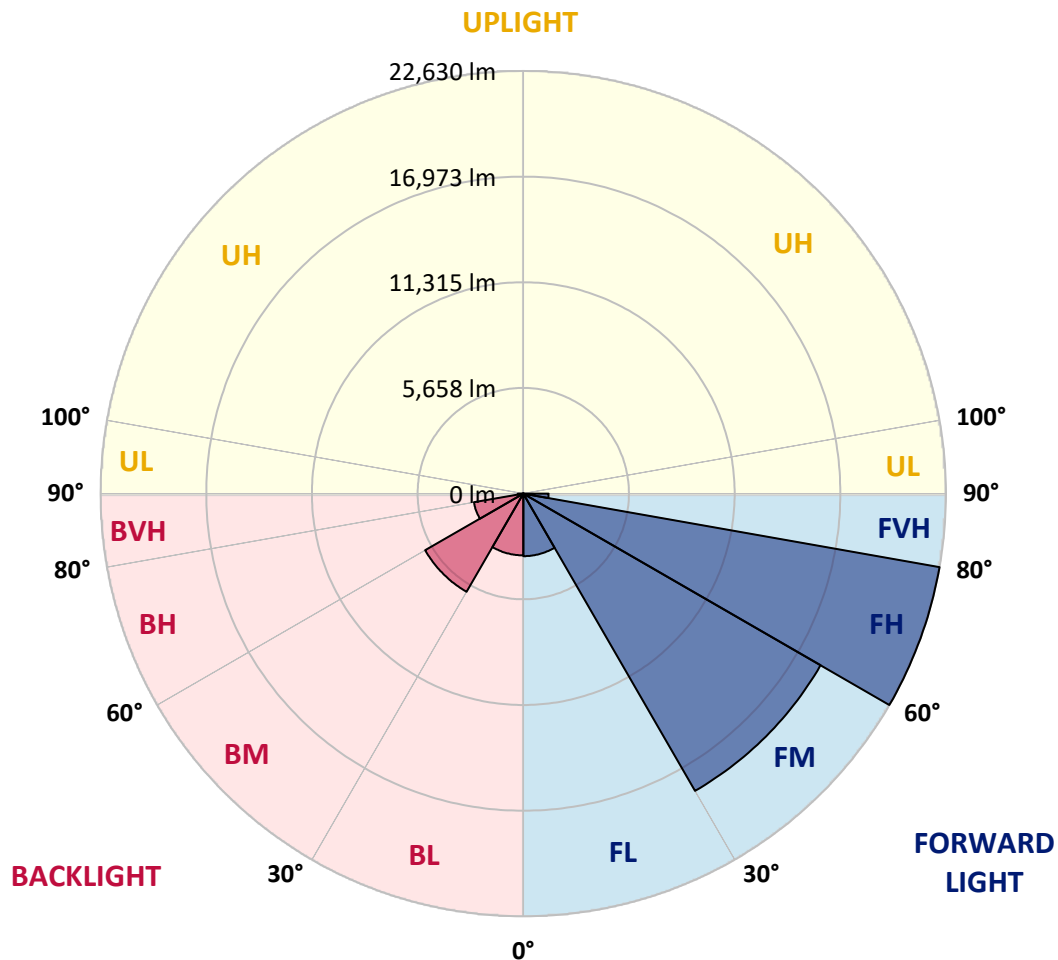
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3347.1	5.8			
FM	(30°-60°)	18373.8	31.6			
FH	(60°-80°)	22630.3	39.0			G5
FVH	(80°-90°)	1356.3	2.3			G5
BL	(0°-30°)	3305.1	5.7	B4/5000		
BM	(30°-60°)	6068.3	10.5	B4/8500		
BH	(60°-80°)	2683.7	4.6	B4/5000		G4/5000
BVH	(80°-90°)	299.3	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2
2.5°	8192.9	8234.8	8257.3	8337.7	8357.0	8382.7	8450.3	8540.3	8656.1	8759.1	8849.1
5°	7511.0	7575.3	7613.9	7684.7	7823.0	7835.9	8016.0	8221.9	8456.7	8675.4	8855.6
7.5°	6864.4	6935.2	6967.4	7096.0	7279.4	7308.3	7572.1	7897.0	8289.4	8620.8	8897.4
10°	6378.7	6414.1	6484.9	6581.4	6800.1	6819.4	7163.6	7597.8	8106.1	8595.0	8968.2
12.5°	6114.9	6134.2	6150.3	6253.3	6468.8	6497.7	6858.0	7350.2	7961.3	8614.3	9084.0
15°	6153.5	6160.0	6089.2	6108.5	6282.2	6324.0	6681.1	7186.1	7871.3	8662.6	9257.7
17.5°	6478.4	6455.9	6282.2	6192.1	6314.4	6333.7	6645.7	7121.8	7829.4	8752.6	9437.8
20°	6989.9	6957.7	6658.6	6459.1	6529.9	6546.0	6761.5	7170.0	7871.3	8900.6	9717.6
22.5°	7626.8	7613.9	7160.4	6919.1	6915.9	6915.9	7028.5	7343.7	7996.7	9103.3	10010.4
25°	8517.8	8450.3	7858.4	7546.4	7459.5	7453.1	7440.2	7630.0	8157.6	9318.8	10357.8
27.5°	9431.4	9315.6	8788.0	8308.7	8122.2	8099.6	8016.0	8035.3	8363.4	9563.2	10753.4
30°	10251.6	10177.6	9682.3	9151.5	8929.6	8878.1	8646.5	8540.3	8707.6	10003.9	11383.9
32.5°	10878.9	10833.8	10447.8	9965.3	9637.2	9627.6	9289.8	9203.0	9244.8	10537.9	12104.4
35°	11387.1	11403.2	11207.0	10788.8	10412.5	10357.8	10132.6	10023.2	9901.0	11309.9	13011.6
37.5°	12081.9	12117.3	12104.4	11744.2	11284.2	11297.0	11245.6	11065.4	10740.6	12172.0	14018.4
40°	12847.5	12873.2	12870.0	12731.7	12490.4	12503.3	12484.0	12278.1	11792.4	13268.9	15137.8
42.5°	13905.8	13783.6	13465.1	13603.4	13745.0	13806.1	13938.0	13741.7	13075.9	14439.8	16189.6
45°	15089.5	14857.9	14137.4	14201.7	14726.1	14841.9	15568.8	15298.6	14468.7	15784.3	17428.1
47.5°	15835.8	15607.4	14999.5	14986.6	15681.4	15794.0	17080.7	16981.0	15736.1	17235.1	18939.9
50°	16501.7	16469.5	15784.3	15948.4	16627.1	16794.4	18727.6	18634.3	17000.3	18946.4	20586.9
52.5°	17489.2	17228.6	16681.8	17019.6	17917.0	18135.8	20361.7	20088.3	18161.5	20458.2	22185.6
55°	17933.1	17872.0	17839.8	18132.5	19364.5	19522.2	21950.8	21323.5	19152.2	21738.5	23401.5
57.5°	19120.1	19007.5	19325.9	19525.4	21069.4	21310.6	23610.6	22613.4	20020.7	22754.9	23993.4
60°	20657.6	20596.5	20889.2	21249.5	22973.7	23340.4	25502.0	23713.5	20718.8	23266.4	23668.5
62.5°	22954.4	22947.9	22893.3	23665.3	25672.5	26010.2	27673.3	24784.7	20828.1	22883.6	21989.4
65°	26248.3	26132.5	25656.4	26499.2	29030.7	29426.4	29934.6	25383.0	20168.7	20918.2	18515.3
67.5°	29693.4	29686.9	29300.9	30394.6	33852.5	34261.1	32762.1	25251.1	18338.4	16945.6	13149.9
70°	32549.8	32411.5	32903.6	35818.0	40012.5	40485.4	35235.7	23697.4	14607.0	11190.9	7813.4
72.5°	33234.9	33241.4	34264.3	39999.7	45928.0	46002.0	36126.8	19206.9	9775.6	6172.8	3908.3
74°	31124.8	31179.5	32765.3	40208.7	47031.4	46696.8	33849.3	15096.0	6610.3	4030.5	2817.8
75°	28409.9	28065.7	30359.2	38815.9	45886.2	45526.0	31182.7	12114.1	5043.8	3219.9	2467.2
77.5°	15189.3	15539.9	19078.2	28966.4	37278.3	36863.4	21143.4	5809.4	2724.5	2242.0	1775.6
80°	5407.3	5963.8	8382.7	15157.1	23900.1	24028.7	10090.8	2663.4	1917.2	1653.4	1254.5
82.5°	2206.7	2267.8	3599.5	6726.1	12136.6	12252.4	4120.6	1582.6	1370.3	1138.7	749.5
85°	862.1	887.8	1592.3	3023.7	5178.9	5516.6	1425.0	836.3	842.8	653.0	382.8
87.5°	289.5	328.1	653.0	1006.8	1759.5	1724.2	415.0	247.7	302.4	283.1	119.0
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°	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2	8865.2
2.5°	8894.2	8955.3	8997.1	9042.1	9084.0	9096.8	9087.2	9116.1	9119.3	9122.6	9125.8
5°	8945.6	9029.3	9109.7	9154.7	9174.0	9157.9	9103.3	9074.3	9048.6	9029.3	9035.7
7.5°	9016.4	9135.4	9209.4	9228.7	9177.2	9103.3	8968.2	8862.0	8794.5	8749.4	8746.2
10°	9125.8	9241.6	9302.7	9248.0	9106.5	8926.3	8714.0	8514.6	8363.4	8318.4	8315.2
12.5°	9264.1	9396.0	9392.8	9231.9	8984.2	8662.6	8318.4	8086.8	7880.9	7778.0	7819.8
15°	9444.2	9543.9	9450.7	9161.2	8768.7	8328.0	7903.4	7588.2	7356.6	7247.2	7253.7
17.5°	9653.3	9740.2	9492.5	9035.7	8466.4	7900.2	7408.1	7108.9	6925.6	6845.1	6838.7
20°	9913.9	9939.6	9492.5	8817.0	8077.1	7401.6	6932.0	6722.9	6620.0	6578.2	6591.0
22.5°	10193.7	10142.3	9441.0	8508.2	7565.7	6880.5	6565.3	6472.0	6420.5	6414.1	6420.5
25°	10509.0	10364.2	9334.9	8090.0	7031.7	6430.2	6246.8	6262.9	6272.6	6272.6	6295.1
27.5°	10895.0	10605.5	9157.9	7562.5	6407.7	6012.0	5960.5	6073.1	6124.6	6134.2	6150.3
30°	11403.2	10869.2	8865.2	6903.0	5876.9	5635.7	5725.7	5876.9	5934.8	5970.2	5963.8
32.5°	12007.9	11158.7	8469.6	6243.6	5449.1	5371.9	5481.3	5635.7	5700.0	5719.3	5693.6
35°	12718.8	11486.8	7948.5	5626.0	5076.0	5121.0	5249.7	5297.9	5355.8	5355.8	5368.7
37.5°	13484.4	11750.6	7311.6	5059.9	4786.4	4950.5	5043.8	4998.8	4973.0	4940.9	4956.9
40°	14262.8	11946.8	6484.9	4500.2	4496.9	4773.6	4799.3	4670.6	4567.7	4535.5	4519.5
42.5°	14941.6	12069.1	5738.6	4065.9	4223.5	4599.9	4619.2	4413.3	4249.3	4152.8	4120.6
45°	15742.5	12210.6	5008.4	3705.6	3969.4	4461.6	4509.8	4233.2	3991.9	3789.3	3737.8
47.5°	16839.4	12532.3	4432.6	3425.8	3786.1	4374.7	4442.3	4085.2	3766.8	3503.0	3461.2
50°	18077.9	12972.9	3985.5	3236.0	3644.5	4297.5	4381.1	3934.0	3557.7	3265.0	3232.8
52.5°	19213.3	13211.0	3599.5	3065.5	3506.2	4156.0	4300.7	3824.7	3351.8	3026.9	2998.0
55°	19834.2	12825.0	3219.9	2898.2	3316.4	3972.6	4188.1	3673.5	3152.4	2901.5	2859.6
57.5°	19917.8	12027.2	2875.7	2718.1	3117.0	3747.5	3979.1	3490.1	3023.7	2814.6	2779.2
60°	19271.2	10837.1	2608.7	2570.1	2914.3	3493.3	3744.2	3329.3	2891.8	2718.1	2682.7
62.5°	17662.9	9543.9	2422.2	2435.0	2708.5	3226.3	3570.5	3174.9	2766.4	2612.0	2579.8
65°	14896.5	7877.7	2242.0	2296.7	2525.1	3017.3	3412.9	3046.2	2640.9	2531.5	2502.6
67.5°	10348.1	5687.1	2094.1	2152.0	2351.4	2805.0	3229.6	2907.9	2499.4	2441.5	2396.4
70°	5728.9	3499.8	1920.4	1987.9	2171.3	2566.9	3023.7	2698.8	2293.5	2267.8	2203.4
72.5°	3010.8	2229.2	1724.2	1798.1	1926.8	2261.3	2708.5	2470.4	2090.9	1981.5	1897.9
74°	2351.4	1827.1	1592.3	1669.5	1756.3	2081.2	2521.9	2306.4	1946.1	1817.4	1753.1
75°	2049.0	1627.7	1479.7	1579.4	1656.6	1959.0	2377.1	2190.6	1865.7	1743.5	1685.6
77.5°	1447.5	1219.1	1209.5	1328.5	1370.3	1717.7	2142.3	1994.4	1663.0	1534.4	1479.7
80°	1016.5	913.5	958.6	1032.6	1090.5	1518.3	1987.9	1724.2	1363.9	1212.7	1193.4
82.5°	662.6	598.3	685.2	752.7	772.0	1119.4	1605.1	1309.2	994.0	807.4	749.5
85°	305.6	299.2	392.4	382.8	379.6	546.8	952.1	765.6	572.6	427.8	402.1
87.5°	77.2	74.0	96.5	80.4	96.5	83.6	86.9	22.5	3.2	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)