

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: P457031

Luminaire Tested: **GALN-SA8B-750-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457031  
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-SA8B-750-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 5000K, 800mA 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: 45847 lumens  
Efficiency: N/A  
Efficacy: 141.1 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

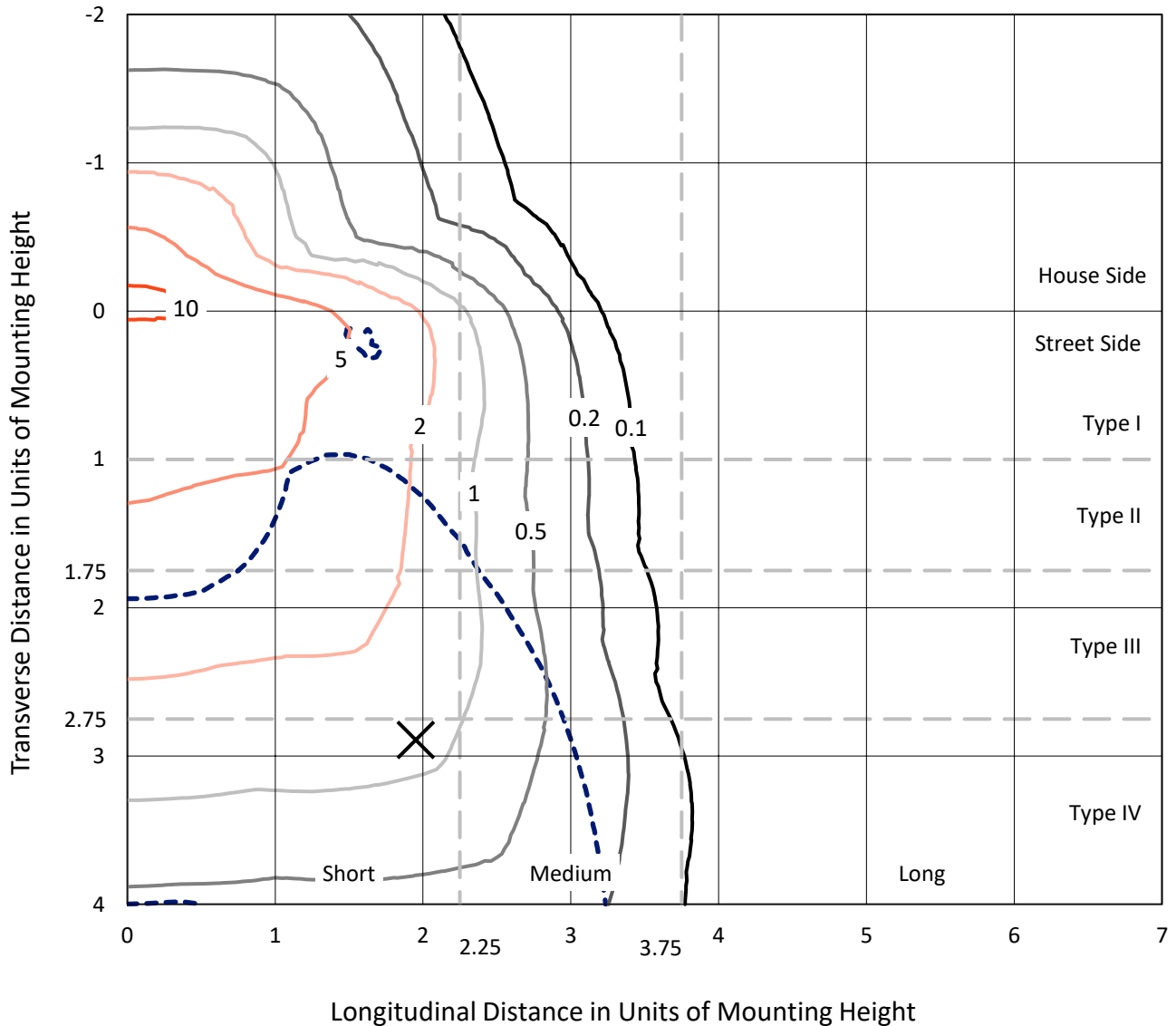
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

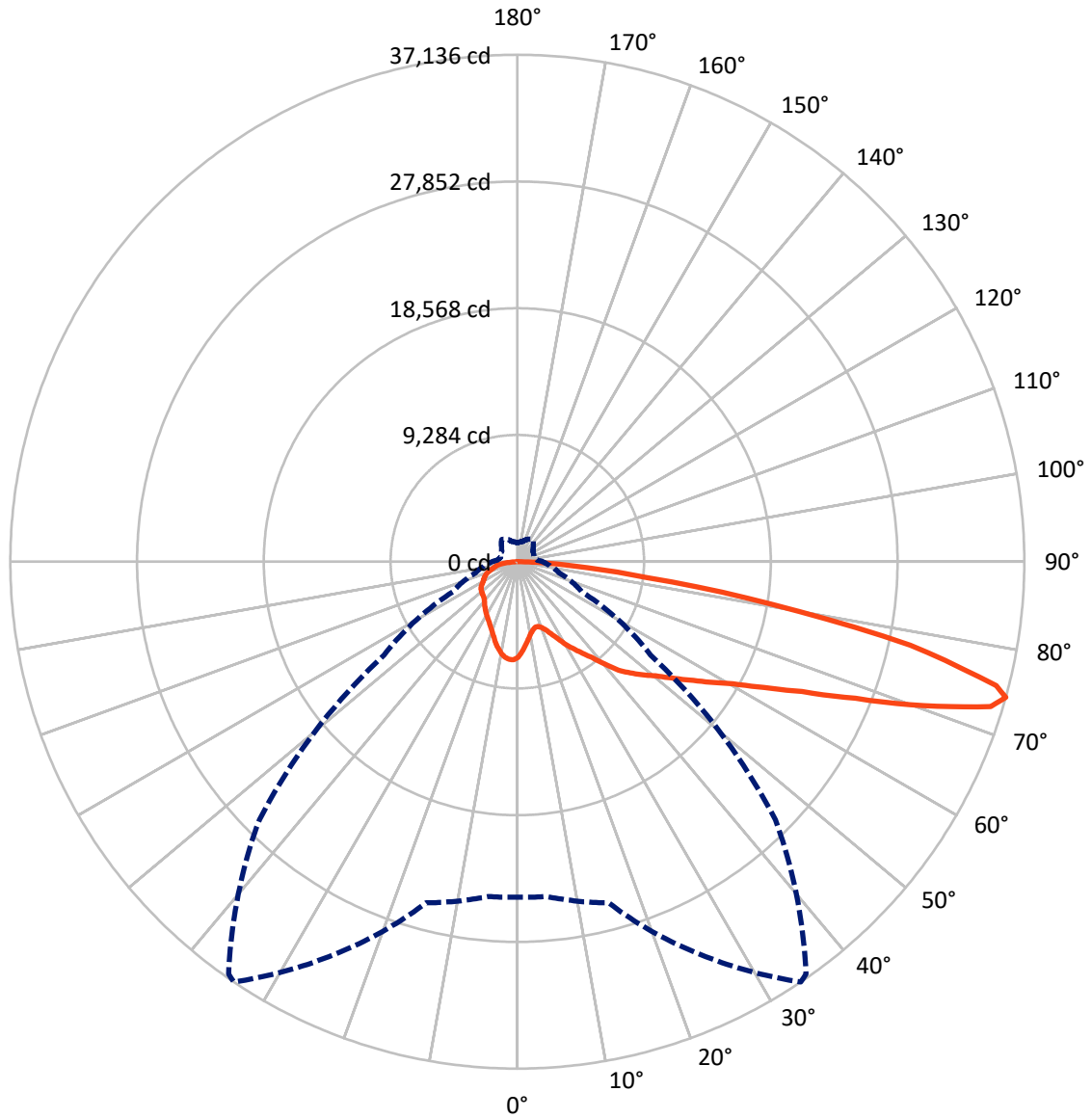
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	9756.6	0.0	9756.6
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	36090.4	0.0	36090.4
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	45847.0	0.0	45847.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	636.6	1.4
10°-20°	1742.7	3.8
20°-30°	2873.3	6.3
30°-40°	4303.8	9.4
40°-50°	6256.6	13.6
50°-60°	8739.0	19.1
60°-70°	10940.7	23.9
70°-80°	9047.1	19.7
80°-90°	1307.2	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°	45847.0	100.0
0°-180°	45847.0	100.0

**Coefficient of Utilization**



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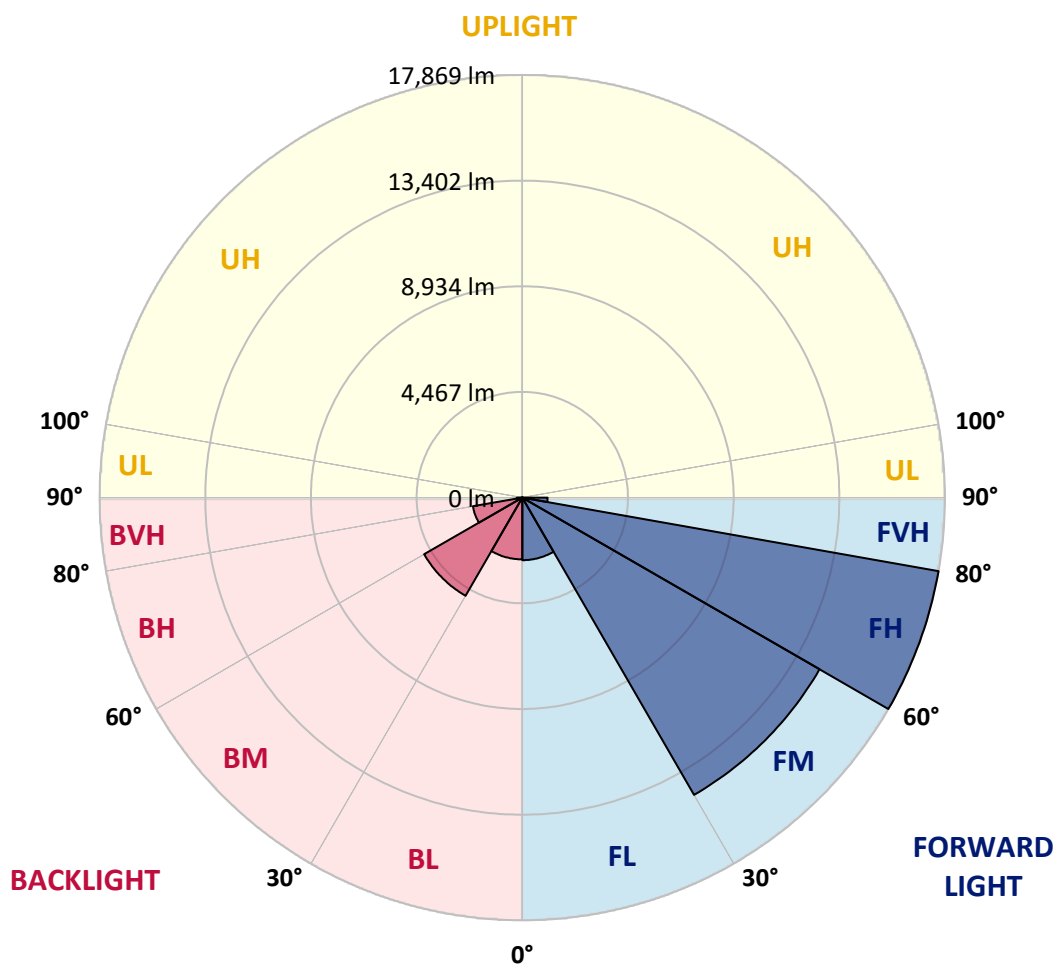
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2642.9	5.8			
FM (30°-60°)	14507.9	31.6			
FH (60°-80°)	17868.7	39.0			G5
FVH (80°-90°)	1070.9	2.3			G5
BL (0°-30°)	2609.7	5.7	B4/5000		
BM (30°-60°)	4791.5	10.5	B3/5000		
BH (60°-80°)	2119.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	236.3	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°	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9
2.5°	6469.1	6502.1	6519.9	6583.4	6598.6	6618.9	6672.3	6743.4	6834.8	6916.1	6987.2
5°	5930.6	5981.4	6011.9	6067.8	6177.0	6187.2	6329.4	6492.0	6677.4	6850.1	6992.3
7.5°	5420.1	5476.0	5501.4	5603.0	5747.8	5770.6	5978.9	6235.4	6545.3	6806.9	7025.3
10°	5036.6	5064.5	5120.4	5196.6	5369.3	5384.6	5656.3	5999.2	6400.5	6786.6	7081.2
12.5°	4828.3	4843.6	4856.3	4937.5	5107.7	5130.6	5415.0	5803.6	6286.2	6801.8	7172.6
15°	4858.8	4863.9	4808.0	4823.2	4960.4	4993.4	5275.3	5674.1	6215.1	6839.9	7309.8
17.5°	5115.3	5097.6	4960.4	4889.3	4985.8	5001.0	5247.4	5623.3	6182.1	6911.0	7452.0
20°	5519.2	5493.8	5257.6	5100.1	5156.0	5168.7	5338.8	5661.4	6215.1	7027.9	7673.0
22.5°	6022.1	6011.9	5653.8	5463.3	5460.8	5460.8	5549.7	5798.6	6314.2	7187.9	7904.1
25°	6725.6	6672.3	6204.9	5958.6	5890.0	5884.9	5874.8	6024.6	6441.2	7358.1	8178.4
27.5°	7447.0	7355.5	6939.0	6560.5	6413.2	6395.4	6329.4	6344.6	6603.7	7551.1	8490.8
30°	8094.6	8036.2	7645.1	7226.0	7050.7	7010.1	6827.2	6743.4	6875.5	7899.1	8988.7
32.5°	8589.9	8554.3	8249.6	7868.6	7609.5	7601.9	7335.2	7266.6	7299.6	8320.7	9557.6
35°	8991.2	9003.9	8849.0	8518.8	8221.6	8178.4	8000.6	7914.3	7817.8	8930.2	10273.8
37.5°	9539.8	9567.8	9557.6	9273.1	8909.9	8920.1	8879.4	8737.2	8480.7	9610.9	11068.8
40°	10144.3	10164.6	10162.1	10052.9	9862.4	9872.5	9857.3	9694.8	9311.2	10477.0	11952.7
42.5°	10979.9	10883.4	10632.0	10741.2	10852.9	10901.2	11005.3	10850.4	10324.6	11401.6	12783.3
45°	11914.6	11731.7	11162.8	11213.6	11627.6	11719.0	12293.1	12079.7	11424.4	12463.2	13761.1
47.5°	12503.9	12323.5	11843.5	11833.3	12382.0	12470.8	13486.8	13408.1	12425.1	13608.7	14954.9
50°	13029.6	13004.2	12463.2	12592.8	13128.7	13260.8	14787.2	14713.6	13423.3	14959.9	16255.3
52.5°	13809.4	13603.6	13171.9	13438.5	14147.2	14319.9	16077.5	15861.6	14340.2	16153.7	17517.6
55°	14159.9	14111.6	14086.2	14317.3	15290.1	15414.6	17332.2	16836.9	15122.5	17164.6	18477.7
57.5°	15097.1	15008.2	15259.6	15417.1	16636.3	16826.8	18642.8	17855.4	15808.3	17967.2	18945.0
60°	16311.2	16262.9	16494.0	16778.5	18139.9	18429.4	20136.2	18724.1	16359.4	18371.0	18688.5
62.5°	18124.6	18119.6	18076.4	18686.0	20270.8	20537.5	21850.7	19569.8	16445.8	18068.8	17362.7
65°	20725.5	20634.0	20258.1	20923.6	22922.5	23234.9	23636.2	20042.3	15925.1	16516.9	14619.6
67.5°	23445.7	23440.6	23135.8	23999.4	26729.8	27052.3	25868.8	19938.1	14479.9	13380.1	10383.1
70°	25701.1	25591.9	25980.5	28281.6	31593.7	31967.0	27821.9	18711.4	11533.6	8836.3	6169.4
72.5°	26242.1	26247.2	27054.9	31583.5	36264.5	36322.9	28525.5	15165.7	7718.7	4874.0	3086.0
74°	24576.0	24619.1	25871.3	31748.6	37135.7	36871.5	26727.2	11919.7	5219.5	3182.5	2224.9
75°	22432.3	22160.5	23971.5	30648.8	36231.5	35947.0	24621.7	9565.2	3982.5	2542.4	1948.1
77.5°	11993.3	12270.2	15064.1	22871.7	29434.8	29107.1	16694.7	4587.0	2151.3	1770.3	1402.0
80°	4269.6	4709.0	6618.9	11968.0	18871.4	18973.0	7967.6	2103.0	1513.8	1305.5	990.6
82.5°	1742.4	1790.6	2842.1	5310.9	9583.0	9674.4	3253.6	1249.6	1082.0	899.1	591.8
85°	680.7	701.0	1257.2	2387.5	4089.2	4355.9	1125.2	660.4	665.5	515.6	302.2
87.5°	228.6	259.1	515.6	795.0	1389.3	1361.4	327.6	195.6	238.7	223.5	94.0
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°	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9	6999.9
2.5°	7022.8	7071.0	7104.1	7139.6	7172.6	7182.8	7175.2	7198.0	7200.6	7203.1	7205.7
5°	7063.4	7129.5	7193.0	7228.5	7243.8	7231.1	7187.9	7165.0	7144.7	7129.5	7134.5
7.5°	7119.3	7213.3	7271.7	7286.9	7246.3	7187.9	7081.2	6997.4	6944.1	6908.5	6906.0
10°	7205.7	7297.1	7345.4	7302.2	7190.4	7048.2	6880.6	6723.1	6603.7	6568.1	6565.6
12.5°	7314.9	7419.0	7416.5	7289.5	7093.9	6839.9	6568.1	6385.3	6222.7	6141.4	6174.5
15°	7457.1	7535.8	7462.2	7233.6	6923.7	6575.8	6240.5	5991.6	5808.7	5722.4	5727.4
17.5°	7622.2	7690.8	7495.2	7134.5	6685.0	6238.0	5849.4	5613.2	5468.4	5404.9	5399.8
20°	7827.9	7848.3	7495.2	6961.8	6377.7	5844.3	5473.5	5308.4	5227.1	5194.1	5204.2
22.5°	8048.9	8008.3	7454.6	6718.0	5973.8	5432.8	5183.9	5110.3	5069.6	5064.5	5069.6
25°	8297.8	8183.5	7370.8	6387.8	5552.2	5077.2	4932.5	4945.2	4952.8	4952.8	4970.6
27.5°	8602.6	8374.0	7231.1	5971.3	5059.5	4747.0	4706.4	4795.3	4835.9	4843.6	4856.3
30°	9003.9	8582.3	6999.9	5450.6	4640.4	4449.9	4521.0	4640.4	4686.1	4714.0	4709.0
32.5°	9481.4	8810.9	6687.5	4929.9	4302.6	4241.6	4328.0	4449.9	4500.7	4515.9	4495.6
35°	10042.7	9069.9	6276.1	4442.3	4007.9	4043.5	4145.1	4183.2	4228.9	4228.9	4239.1
37.5°	10647.2	9278.2	5773.2	3995.2	3779.4	3908.9	3982.5	3947.0	3926.7	3901.3	3914.0
40°	11261.9	9433.1	5120.4	3553.3	3550.8	3769.2	3789.5	3687.9	3606.6	3581.2	3568.5
42.5°	11797.8	9529.7	4531.2	3210.4	3334.9	3632.0	3647.3	3484.7	3355.2	3279.0	3253.6
45°	12430.2	9641.4	3954.6	2926.0	3134.2	3522.8	3560.9	3342.5	3152.0	2992.0	2951.3
47.5°	13296.3	9895.4	3500.0	2705.0	2989.4	3454.2	3507.6	3225.7	2974.2	2765.9	2732.9
50°	14274.2	10243.4	3146.9	2555.1	2877.7	3393.3	3459.3	3106.3	2809.1	2578.0	2552.6
52.5°	15170.7	10431.3	2842.1	2420.5	2768.5	3281.5	3395.8	3019.9	2646.6	2390.0	2367.2
55°	15660.9	10126.5	2542.4	2288.4	2618.6	3136.8	3306.9	2900.6	2489.1	2291.0	2258.0
57.5°	15727.0	9496.6	2270.7	2146.2	2461.2	2959.0	3141.8	2755.8	2387.5	2222.4	2194.5
60°	15216.5	8556.9	2059.8	2029.4	2301.1	2758.3	2956.4	2628.8	2283.4	2146.2	2118.3
62.5°	13946.5	7535.8	1912.5	1922.7	2138.6	2547.5	2819.3	2506.9	2184.3	2062.4	2037.0
65°	11762.2	6220.2	1770.3	1813.5	1993.8	2382.4	2694.8	2405.3	2085.2	1998.9	1976.0
67.5°	8170.8	4490.5	1653.5	1699.2	1856.7	2214.8	2550.0	2296.1	1973.5	1927.8	1892.2
70°	4523.5	2763.4	1516.3	1569.7	1714.4	2026.8	2387.5	2131.0	1810.9	1790.6	1739.8
72.5°	2377.3	1760.1	1361.4	1419.8	1521.4	1785.5	2138.6	1950.6	1650.9	1564.6	1498.5
74°	1856.7	1442.7	1257.2	1318.2	1386.8	1643.3	1991.3	1821.1	1536.6	1435.0	1384.2
75°	1617.9	1285.2	1168.3	1247.1	1308.0	1546.8	1877.0	1729.7	1473.1	1376.6	1330.9
77.5°	1142.9	962.6	955.0	1049.0	1082.0	1356.3	1691.6	1574.7	1313.1	1211.5	1168.3
80°	802.6	721.3	756.9	815.3	861.0	1198.8	1569.7	1361.4	1076.9	957.5	942.3
82.5°	523.2	472.4	541.0	594.3	609.6	883.9	1267.4	1033.7	784.8	637.5	591.8
85°	241.3	236.2	309.9	302.2	299.7	431.8	751.8	604.5	452.1	337.8	317.5
87.5°	61.0	58.4	76.2	63.5	76.2	66.0	68.6	17.8	2.5	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)