

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: P457988

Luminaire Tested: **GALN-SA9B-760-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457988  
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-SA9B-760-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 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: 51471 lumens  
Efficiency: N/A  
Efficacy: 141.4 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

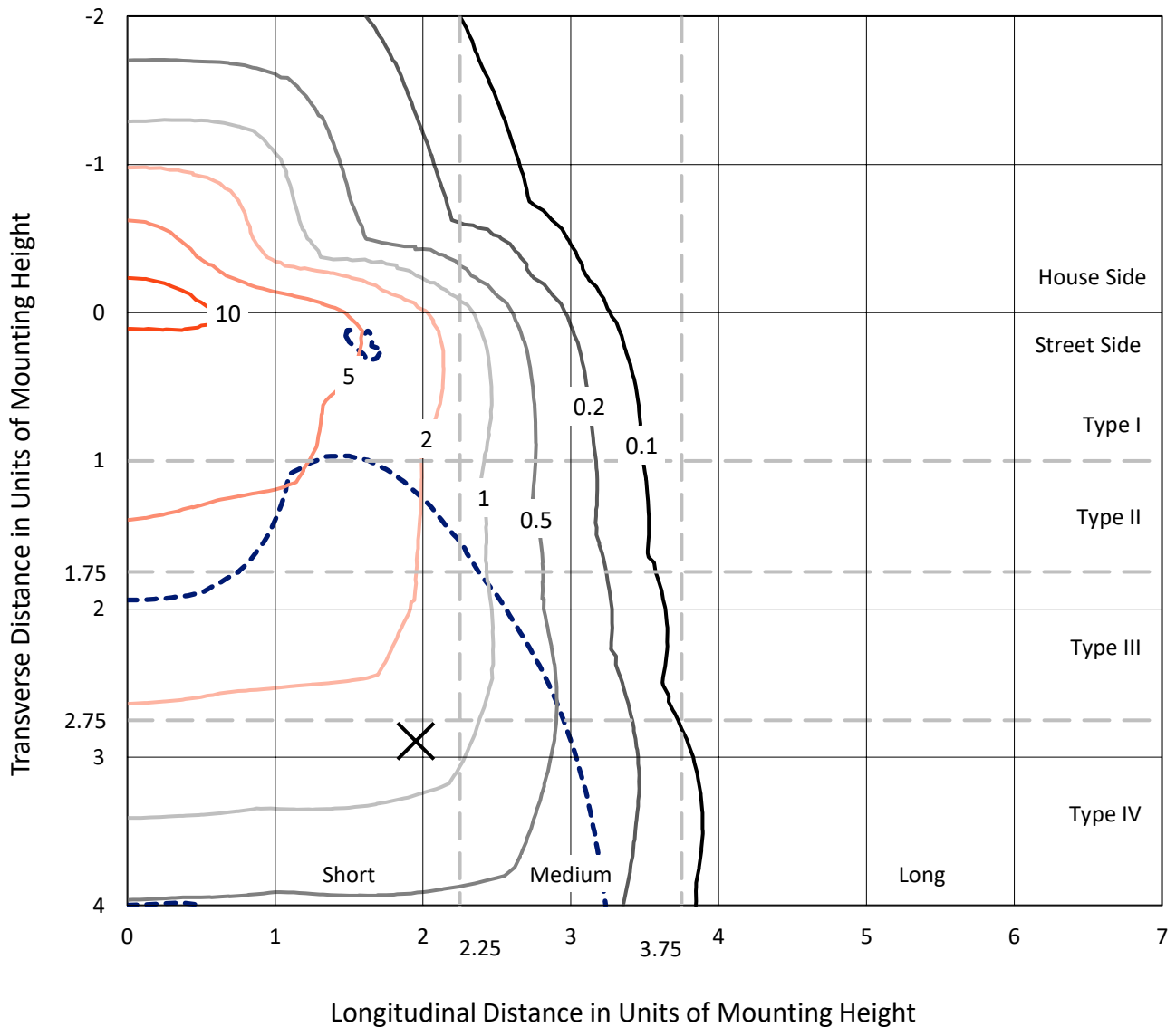
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

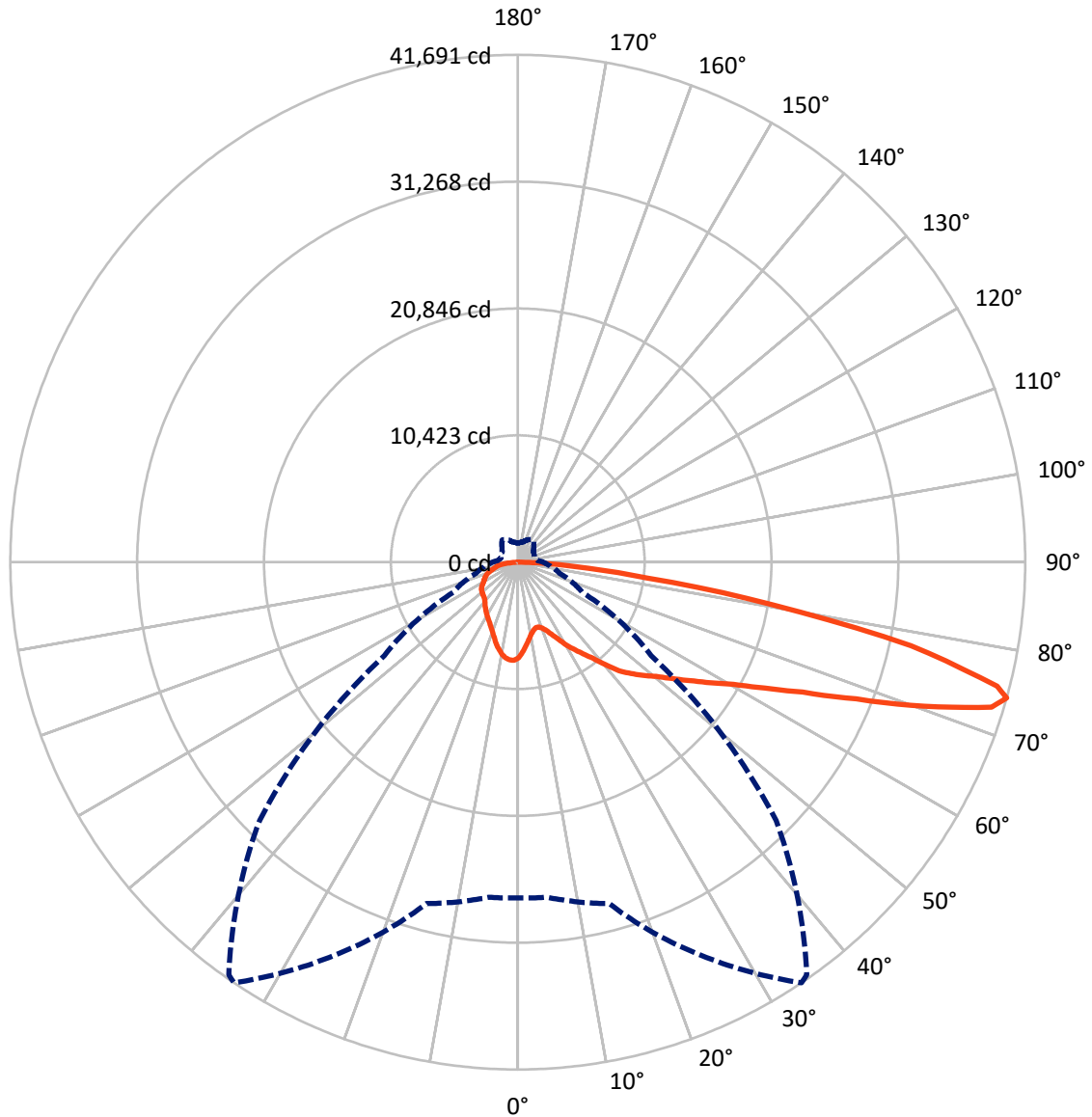
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	10953.4	0.0	10953.4
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	40517.6	0.0	40517.6
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	51471.0	0.0	51471.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	714.7	1.4
10°-20°	1956.5	3.8
20°-30°	3225.7	6.3
30°-40°	4831.8	9.4
40°-50°	7024.1	13.6
50°-60°	9811.0	19.1
60°-70°	12282.8	23.9
70°-80°	10156.9	19.7
80°-90°	1467.6	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°	51471.0	100.0
0°-180°	51471.0	100.0

**Coefficient of Utilization**



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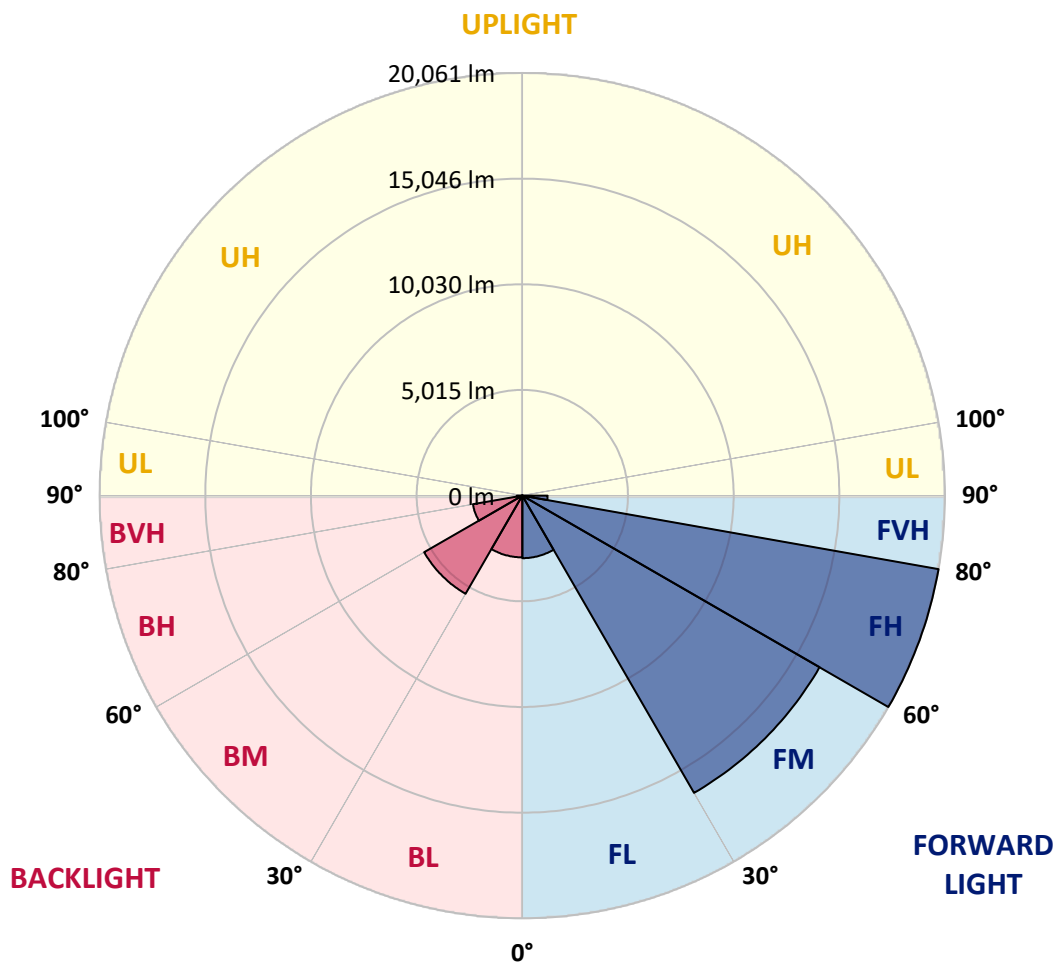
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2967.1	5.8			
FM	(30°-60°)	16287.6	31.6			
FH	(60°-80°)	20060.7	39.0			G5
FVH	(80°-90°)	1202.3	2.3			G5
BL	(0°-30°)	2929.9	5.7	B4/5000		
BM	(30°-60°)	5379.2	10.5	B4/8500		
BH	(60°-80°)	2379.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	265.3	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°	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6
2.5°	7262.7	7299.7	7319.7	7391.0	7408.1	7430.9	7490.8	7570.6	7673.3	7764.5	7844.3
5°	6658.1	6715.2	6749.4	6812.1	6934.7	6946.1	7105.8	7288.3	7496.5	7690.4	7850.0
7.5°	6085.0	6147.7	6176.2	6290.3	6452.8	6478.5	6712.3	7000.3	7348.2	7641.9	7887.1
10°	5654.4	5685.8	5748.5	5834.1	6028.0	6045.1	6350.2	6735.1	7185.7	7619.1	7949.9
12.5°	5420.6	5437.7	5452.0	5543.2	5734.3	5759.9	6079.3	6515.6	7057.3	7636.2	8052.5
15°	5454.8	5460.5	5397.8	5414.9	5568.9	5606.0	5922.5	6370.1	6977.5	7679.0	8206.5
17.5°	5742.8	5722.9	5568.9	5489.0	5597.4	5614.5	5891.1	6313.1	6940.4	7758.8	8366.2
20°	6196.2	6167.7	5902.5	5725.7	5788.4	5802.7	5993.8	6355.9	6977.5	7890.0	8614.2
22.5°	6760.8	6749.4	6347.3	6133.5	6130.6	6130.6	6230.4	6509.9	7088.7	8069.6	8873.7
25°	7550.6	7490.8	6966.1	6689.5	6612.5	6606.8	6595.4	6763.6	7231.3	8260.7	9181.7
27.5°	8360.5	8257.8	7790.2	7365.3	7199.9	7180.0	7105.8	7122.9	7413.8	8477.4	9532.4
30°	9087.6	9022.0	8582.9	8112.4	7915.6	7870.0	7664.7	7570.6	7718.9	8868.0	10091.3
32.5°	9643.6	9603.7	9261.5	8833.8	8543.0	8534.4	8235.0	8158.0	8195.1	9341.4	10730.0
35°	10094.1	10108.4	9934.5	9563.8	9230.2	9181.7	8982.1	8885.1	8776.8	10025.7	11534.1
37.5°	10710.1	10741.4	10730.0	10410.7	10002.9	10014.3	9968.7	9809.0	9521.0	10789.9	12426.6
40°	11388.7	11411.5	11408.7	11286.0	11072.2	11083.6	11066.5	10884.0	10453.4	11762.2	13418.9
42.5°	12326.8	12218.5	11936.2	12058.8	12184.3	12238.4	12355.3	12181.4	11591.2	12800.2	14351.4
45°	13376.2	13170.9	12532.1	12589.2	13054.0	13156.6	13801.0	13561.5	12825.8	13992.1	15449.2
47.5°	14037.7	13835.2	13296.3	13284.9	13900.8	14000.6	15141.2	15052.8	13949.3	15278.1	16789.4
50°	14628.0	14599.4	13992.1	14137.5	14739.2	14887.4	16601.2	16518.5	15069.9	16795.1	18249.3
52.5°	15503.3	15272.4	14787.6	15087.0	15882.6	16076.5	18049.7	17807.3	16099.3	18135.2	19666.5
55°	15896.8	15842.7	15814.2	16073.6	17165.7	17305.5	19458.3	18902.3	16977.5	19270.1	20744.3
57.5°	16949.0	16849.2	17131.5	17308.3	18677.0	18890.9	20929.7	20045.7	17747.4	20171.2	21269.0
60°	18312.0	18257.9	18517.3	18836.7	20365.1	20690.1	22606.3	21020.9	18366.2	20624.6	20981.0
62.5°	20348.0	20342.3	20293.8	20978.1	22757.4	23056.8	24531.0	21970.4	18463.2	20285.2	19492.5
65°	23267.9	23165.2	22743.2	23490.3	25734.4	26085.1	26535.6	22500.8	17878.6	18543.0	16413.0
67.5°	26321.8	26316.1	25973.9	26943.4	30008.7	30370.8	29042.0	22383.9	16256.1	15021.5	11656.7
70°	28853.9	28731.2	29167.5	31750.9	35469.2	35888.4	31234.8	21006.7	12948.4	9920.2	6926.2
72.5°	29461.2	29466.9	30373.7	35457.8	40713.0	40778.6	32024.7	17026.0	8665.6	5471.9	3464.5
74°	27590.7	27639.1	29044.9	35643.2	41691.1	41394.5	30005.8	13381.9	5859.7	3572.9	2497.9
75°	25184.0	24878.9	26912.0	34408.5	40676.0	40356.6	27642.0	10738.6	4471.1	2854.3	2187.1
77.5°	13464.6	13775.4	16912.0	25677.3	33045.5	32677.6	18742.6	5149.7	2415.2	1987.5	1574.0
80°	4793.3	5286.6	7430.9	13436.0	21186.3	21300.4	8945.0	2361.0	1699.5	1465.6	1112.1
82.5°	1956.1	2010.3	3190.8	5962.4	10758.5	10861.2	3652.7	1402.9	1214.7	1009.4	664.4
85°	764.2	787.0	1411.5	2680.4	4590.8	4890.2	1263.2	741.4	747.1	578.8	339.3
87.5°	256.6	290.8	578.8	892.5	1559.7	1528.4	367.8	219.6	268.0	250.9	105.5
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°	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6	7858.6
2.5°	7884.3	7938.4	7975.5	8015.4	8052.5	8063.9	8055.4	8081.0	8083.9	8086.7	8089.6
5°	7929.9	8004.0	8075.3	8115.2	8132.3	8118.1	8069.6	8043.9	8021.1	8004.0	8009.7
7.5°	7992.6	8098.1	8163.7	8180.8	8135.2	8069.6	7949.9	7855.8	7795.9	7756.0	7753.1
10°	8089.6	8192.2	8246.4	8197.9	8072.5	7912.8	7724.6	7547.8	7413.8	7373.9	7371.0
12.5°	8212.2	8329.1	8326.2	8183.7	7964.1	7679.0	7373.9	7168.6	6986.1	6894.8	6931.9
15°	8371.9	8460.3	8377.6	8120.9	7773.1	7382.4	7006.0	6726.6	6521.3	6424.3	6430.0
17.5°	8557.2	8634.2	8414.6	8009.7	7505.0	7003.2	6566.9	6301.7	6139.2	6067.9	6062.2
20°	8788.2	8811.0	8414.6	7815.8	7160.0	6561.2	6144.9	5959.5	5868.3	5831.2	5842.6
22.5°	9036.3	8990.6	8369.0	7542.1	6706.6	6099.3	5819.8	5737.1	5691.5	5685.8	5691.5
25°	9315.7	9187.4	8274.9	7171.4	6233.3	5700.1	5537.5	5551.8	5560.3	5560.3	5580.3
27.5°	9657.9	9401.2	8118.1	6703.8	5680.1	5329.4	5283.7	5383.5	5429.2	5437.7	5452.0
30°	10108.4	9635.1	7858.6	6119.2	5209.6	4995.7	5075.6	5209.6	5260.9	5292.3	5286.6
32.5°	10644.5	9891.7	7507.9	5534.7	4830.4	4761.9	4858.9	4995.7	5052.8	5069.9	5047.1
35°	11274.6	10182.5	7045.9	4987.2	4499.6	4539.5	4653.6	4696.3	4747.7	4747.7	4759.1
37.5°	11953.3	10416.4	6481.4	4485.3	4243.0	4388.4	4471.1	4431.2	4408.3	4379.8	4394.1
40°	12643.3	10590.3	5748.5	3989.2	3986.3	4231.6	4254.4	4140.3	4049.1	4020.5	4006.3
42.5°	13245.0	10698.7	5087.0	3604.2	3744.0	4077.6	4094.7	3912.2	3766.8	3681.2	3652.7
45°	13955.0	10824.1	4439.7	3284.9	3518.7	3955.0	3997.7	3752.5	3538.7	3359.0	3313.4
47.5°	14927.4	11109.3	3929.3	3036.8	3356.2	3878.0	3937.9	3621.3	3339.1	3105.2	3068.2
50°	16025.2	11499.9	3532.9	2868.6	3230.7	3809.5	3883.7	3487.3	3153.7	2894.2	2865.7
52.5°	17031.7	11710.9	3190.8	2717.4	3108.1	3684.1	3812.4	3390.4	2971.2	2683.2	2657.6
55°	17582.1	11368.7	2854.3	2569.2	2939.8	3521.5	3712.6	3256.4	2794.4	2572.0	2534.9
57.5°	17656.2	10661.6	2549.2	2409.5	2763.1	3321.9	3527.2	3093.8	2680.4	2495.0	2463.7
60°	17083.1	9606.5	2312.5	2278.3	2583.4	3096.7	3319.1	2951.3	2563.5	2409.5	2378.1
62.5°	15657.3	8460.3	2147.1	2158.5	2400.9	2860.0	3165.1	2814.4	2452.2	2315.4	2286.9
65°	13205.1	6983.2	1987.5	2035.9	2238.4	2674.7	3025.4	2700.3	2341.0	2244.1	2218.4
67.5°	9173.1	5041.4	1856.3	1907.6	2084.4	2486.5	2862.9	2577.7	2215.6	2164.3	2124.3
70°	5078.4	3102.4	1702.3	1762.2	1924.7	2275.5	2680.4	2392.4	2033.1	2010.3	1953.2
72.5°	2669.0	1976.1	1528.4	1594.0	1708.0	2004.6	2400.9	2189.9	1853.4	1756.5	1682.4
74°	2084.4	1619.6	1411.5	1479.9	1556.9	1844.9	2235.5	2044.5	1725.1	1611.1	1554.0
75°	1816.4	1442.8	1311.7	1400.1	1468.5	1736.5	2107.2	1941.8	1653.8	1545.5	1494.2
77.5°	1283.2	1080.7	1072.1	1177.6	1214.7	1522.7	1899.1	1767.9	1474.2	1360.1	1311.7
80°	901.1	809.8	849.7	915.3	966.6	1345.9	1762.2	1528.4	1209.0	1075.0	1057.9
82.5°	587.4	530.4	607.4	667.2	684.3	992.3	1422.9	1160.5	881.1	715.7	664.4
85°	270.9	265.2	347.9	339.3	336.5	484.7	844.0	678.6	507.6	379.2	356.4
87.5°	68.4	65.6	85.5	71.3	85.5	74.1	77.0	20.0	2.9	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)