

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: P459405

Luminaire Tested: **GALN-SA8C-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52444 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

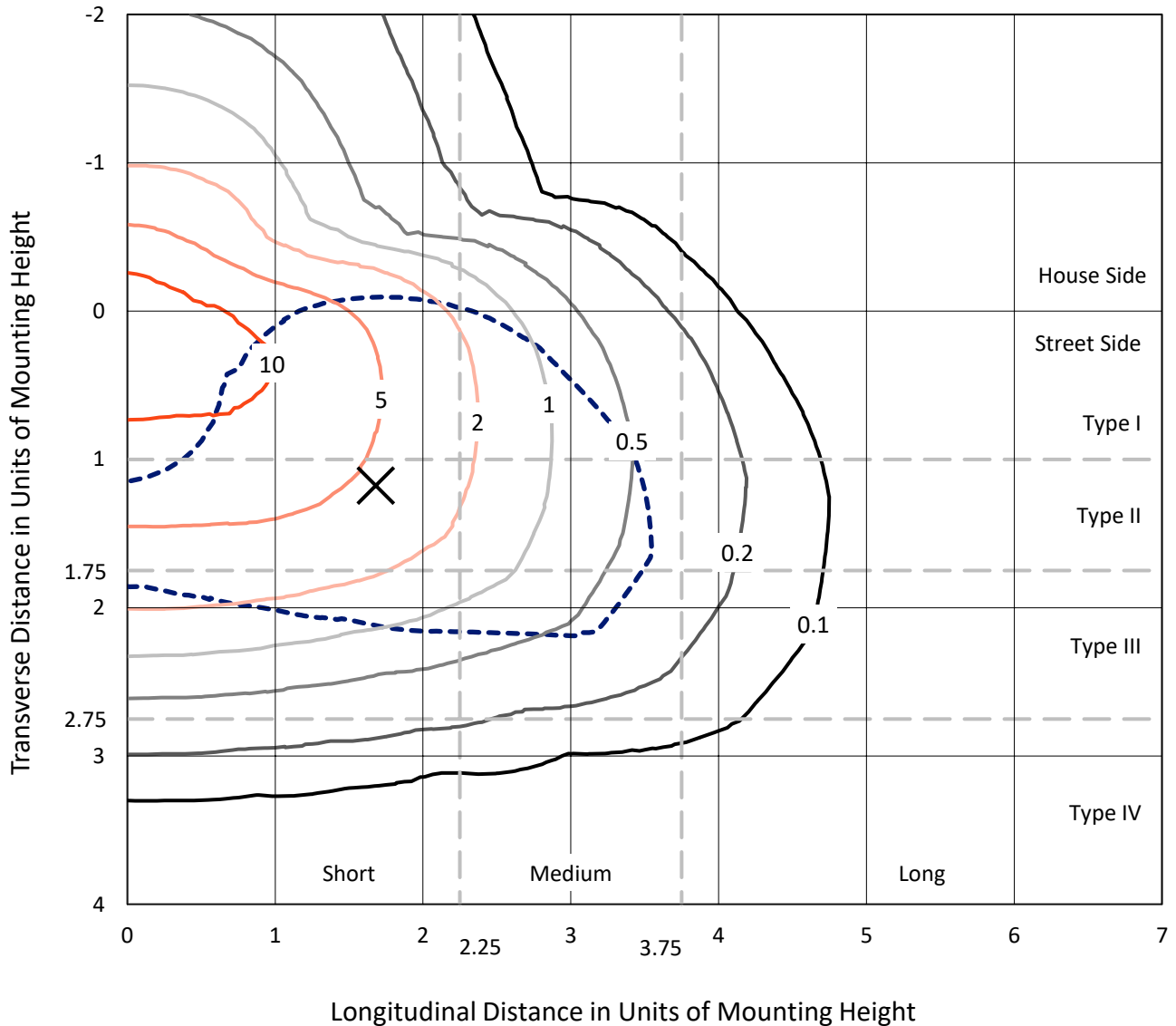
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

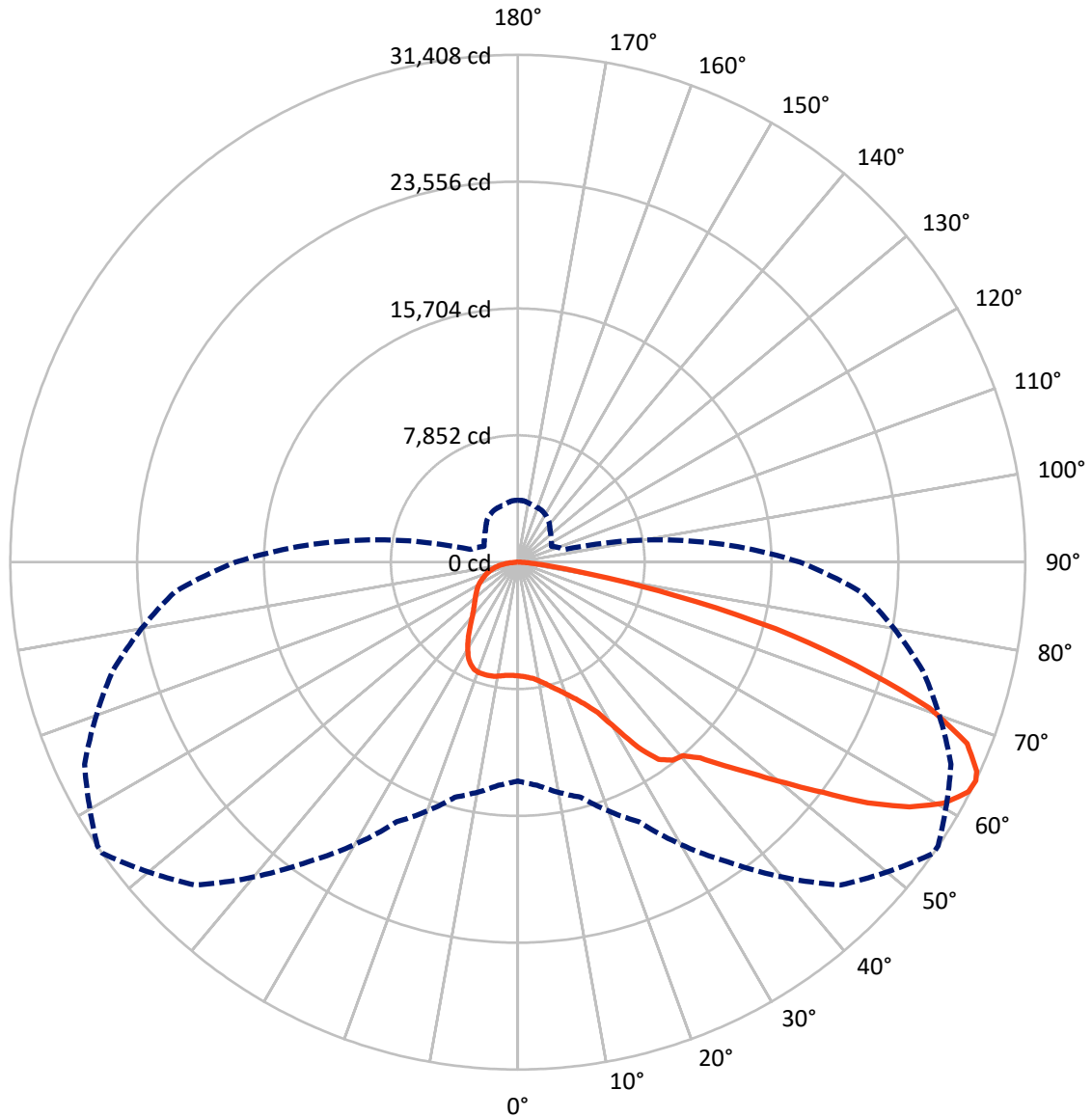
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12739.7	0.0	12739.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	39704.3	0.0	39704.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	52444.0	0.0	52444.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.5	1.3
10°-20°	2159.7	4.1
20°-30°	3844.8	7.3
30°-40°	5915.6	11.3
40°-50°	8385.8	16.0
50°-60°	12138.3	23.1
60°-70°	12561.8	24.0
70°-80°	5882.7	11.2
80°-90°	870.9	1.7
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°	52444.0	100.0
0°-180°	52444.0	100.0

Coefficient of Utilization



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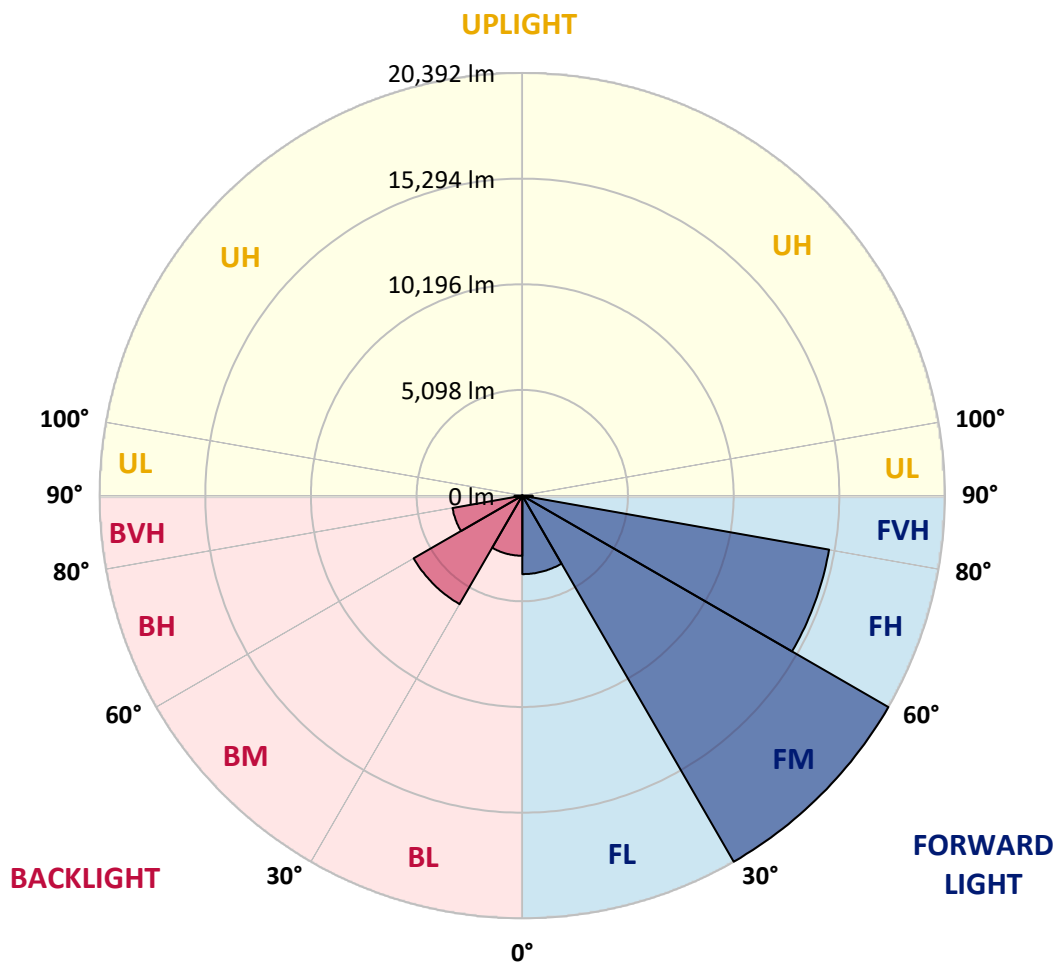
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3787.3	7.2			
FM	(30°-60°)	20391.7	38.9			
FH	(60°-80°)	15026.7	28.7			G5
FVH	(80°-90°)	498.6	1.0			G3/500
BL	(0°-30°)	2901.6	5.5	B4/5000		
BM	(30°-60°)	6048.0	11.5	B4/8500		
BH	(60°-80°)	3417.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	372.2	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4
2.5°	7115.3	7112.4	7121.2	7112.4	7118.3	7097.8	7089.0	7094.9	7086.1	7071.5	7045.2
5°	7203.0	7200.1	7203.0	7191.3	7197.2	7185.5	7165.0	7170.9	7156.3	7124.1	7086.1
7.5°	7352.1	7340.4	7340.4	7337.5	7325.8	7308.3	7293.7	7287.8	7273.2	7232.3	7173.8
10°	7545.1	7545.1	7548.0	7524.6	7539.2	7507.1	7492.4	7489.5	7439.8	7387.2	7305.3
12.5°	7799.4	7814.0	7805.2	7793.5	7787.7	7776.0	7726.3	7738.0	7682.5	7591.8	7492.4
15°	8115.1	8138.5	8123.9	8118.0	8103.4	8059.6	8039.1	8030.3	7957.2	7825.7	7694.1
17.5°	8533.1	8503.9	8492.2	8477.6	8416.2	8384.0	8349.0	8343.1	8278.8	8123.9	7919.2
20°	8898.5	8939.5	8916.1	8901.5	8840.1	8778.7	8752.4	8743.6	8688.1	8518.5	8191.1
22.5°	9334.1	9342.9	9351.7	9316.6	9287.3	9240.6	9193.8	9179.2	9158.7	8983.3	8582.8
25°	9798.9	9834.0	9804.8	9769.7	9734.6	9731.7	9775.5	9769.7	9760.9	9591.4	9103.2
27.5°	10556.1	10588.2	10597.0	10559.0	10424.5	10436.2	10535.6	10567.8	10702.2	10421.6	9772.6
30°	10982.9	11015.0	11088.1	11231.3	11444.8	11631.8	11871.6	11944.6	12073.3	11544.1	10567.8
32.5°	11246.0	11257.7	11389.2	11655.2	12295.4	12994.1	13646.0	13672.3	13754.2	13011.6	11295.7
35°	11661.1	11669.8	11775.1	12067.4	12818.7	13982.2	14990.7	15022.9	14955.6	13467.7	11634.8
37.5°	12172.7	12196.0	12263.3	12505.9	13403.4	14809.5	15549.1	15525.7	14929.3	13830.2	12234.0
40°	12918.1	12918.1	12839.2	13166.6	14020.2	15283.1	15744.9	15704.0	15546.2	14879.6	13146.1
42.5°	13575.8	13564.1	13751.2	13973.4	14791.9	16013.9	16566.4	16633.6	16893.8	16198.0	14183.9
45°	14432.4	14485.0	14590.2	14993.6	16104.5	17262.1	17975.4	18039.7	18408.1	17750.3	15397.1
47.5°	15297.7	15315.2	15645.5	16183.4	17729.9	18954.7	19539.4	19644.6	19980.8	19565.7	16703.8
50°	15911.6	16078.2	16607.3	17455.1	19404.9	21018.6	21474.6	21600.3	22193.8	21541.9	18226.8
52.5°	16560.5	16724.2	17370.3	18662.4	21328.5	23129.2	23690.5	23775.3	24392.1	23541.4	19784.9
55°	17116.0	17268.0	18001.7	19732.3	22860.3	25283.7	26301.0	26201.6	26496.9	25082.0	20986.4
57.5°	17206.6	17329.4	18253.1	20416.4	24012.1	27131.2	28590.0	28648.4	28306.4	26233.8	21977.4
60°	16505.0	16756.4	17817.6	20343.3	24529.5	28417.5	30297.2	30338.1	29367.6	26824.3	22372.1
62.5°	15262.6	15236.3	16519.6	19168.1	23804.5	28709.8	31302.8	31258.9	29782.7	26540.7	21989.1
64°	13546.6	13862.3	15060.9	17724.0	22635.2	28259.6	31408.0	31384.6	29583.9	25950.2	21337.2
65°	12500.1	12482.5	13666.5	16543.0	21471.7	27581.4	31220.9	31188.8	29168.8	25421.1	20831.5
67.5°	9024.3	9065.2	10234.5	12766.1	17455.1	24930.0	30001.9	29882.1	27531.7	23667.1	18908.0
70°	5466.6	5490.0	6407.9	8468.8	12529.3	20153.3	27043.5	27049.4	25026.4	21047.8	16092.8
72.5°	2879.5	2940.8	3309.2	4808.8	7609.4	14140.0	21939.4	22459.8	21486.3	17963.7	12713.5
75°	1602.0	1610.7	1870.9	2370.8	3882.2	7913.4	16490.4	16639.5	17010.7	14458.7	9401.4
77.5°	1221.9	1239.5	1321.3	1531.8	2113.6	3668.8	9980.2	10728.5	11988.5	10193.6	5364.3
80°	991.0	1008.5	1078.7	1204.4	1406.1	1739.4	4636.4	5039.8	6416.7	4525.3	2093.1
82.5°	771.8	760.1	850.7	932.5	1023.2	1029.0	1903.1	2104.8	2613.4	1946.9	906.2
85°	573.0	573.0	646.1	628.5	660.7	602.2	839.0	926.7	1046.5	827.3	421.0
87.5°	228.0	251.4	423.9	380.0	295.3	236.8	309.9	327.4	362.5	324.5	175.4
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°	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4	7036.4
2.5°	7048.1	7056.9	7036.4	7021.8	7015.9	7007.2	6998.4	7001.3	7013.0	7024.7	7021.8
5°	7083.2	7086.1	7051.0	7033.5	7021.8	7010.1	7010.1	7018.9	7042.2	7059.8	7059.8
7.5°	7170.9	7170.9	7121.2	7089.0	7071.5	7051.0	7045.2	7048.1	7065.6	7089.0	7091.9
10°	7308.3	7296.6	7232.3	7182.6	7150.4	7100.7	7056.9	7033.5	7042.2	7056.9	7056.9
12.5°	7474.9	7442.7	7360.9	7293.7	7214.7	7121.2	7030.6	6983.8	6980.9	6995.5	6989.6
15°	7653.2	7618.1	7504.1	7381.4	7244.0	7106.6	6998.4	6931.2	6878.5	6863.9	6896.1
17.5°	7860.8	7787.7	7629.8	7460.3	7255.6	7077.3	6907.8	6770.4	6676.8	6650.5	6659.3
20°	8112.2	8015.7	7802.3	7536.3	7246.9	6972.1	6709.0	6524.8	6372.8	6326.0	6331.9
22.5°	8460.1	8293.4	7980.6	7574.3	7173.8	6773.3	6407.9	6168.2	5984.0	5910.9	5954.8
25°	8854.7	8673.5	8150.2	7565.5	6983.8	6454.7	6051.2	5738.5	5571.8	5463.7	5487.0
27.5°	9398.4	9076.9	8331.4	7486.6	6711.9	6065.9	5598.1	5302.9	5150.9	5095.3	5121.6
30°	10094.2	9600.1	8527.3	7273.2	6282.2	5574.7	5142.1	4949.2	4858.5	4788.4	4811.8
32.5°	10597.0	9968.5	8571.1	6913.6	5817.4	5127.5	4832.2	4689.0	4589.6	4522.4	4537.0
35°	10956.6	10281.3	8550.7	6472.2	5332.1	4759.1	4586.7	4469.7	4309.0	4162.8	4136.5
37.5°	11438.9	10673.0	8401.6	5989.9	4852.7	4510.7	4387.9	4171.6	3940.6	3744.8	3736.0
40°	12178.5	11132.0	8082.9	5422.7	4443.4	4326.5	4177.4	3896.8	3648.3	3490.4	3478.7
42.5°	12941.5	11555.8	7650.3	4826.4	4107.2	4133.6	3952.3	3674.6	3522.6	3420.3	3408.6
45°	13874.0	12014.8	7182.6	4309.0	3858.8	3952.3	3756.5	3595.7	3505.0	3437.8	3420.3
47.5°	14882.6	12485.4	6656.4	3844.1	3648.3	3785.7	3674.6	3601.5	3551.8	3505.0	3484.6
50°	15970.0	13011.6	6162.3	3470.0	3458.3	3613.2	3665.8	3639.5	3610.3	3595.7	3578.1
52.5°	17162.7	13549.5	5747.2	3206.9	3291.6	3490.4	3668.8	3689.2	3689.2	3680.4	3668.8
55°	17969.6	13923.7	5326.3	2993.5	3122.1	3391.0	3662.9	3741.8	3771.1	3759.4	3747.7
57.5°	18565.9	14128.3	4797.1	2809.3	2978.9	3294.6	3630.7	3747.7	3776.9	3791.5	3785.7
60°	18688.7	13938.3	4104.3	2616.4	2823.9	3154.2	3513.8	3660.0	3698.0	3788.6	3797.4
62.5°	18136.2	13353.7	3414.4	2426.3	2633.9	2940.8	3356.0	3560.6	3636.6	3776.9	3791.5
64°	17458.0	12698.8	3031.5	2306.5	2511.1	2821.0	3277.0	3534.3	3633.7	3820.8	3832.5
65°	16961.0	12222.3	2791.8	2230.5	2432.2	2742.1	3233.2	3543.0	3660.0	3888.0	3905.5
67.5°	15131.0	10582.4	2309.4	2052.2	2245.1	2607.6	3241.9	3616.1	3654.1	3914.3	3911.4
70°	12520.5	8425.0	1935.2	1888.5	2063.9	2499.4	3206.9	3499.2	3502.1	3674.6	3633.7
72.5°	9375.0	6226.6	1678.0	1718.9	1862.1	2242.2	3028.5	3341.3	3291.6	3315.0	3274.1
75°	6440.0	4118.9	1444.1	1537.7	1651.7	1982.0	2777.1	3034.4	2955.5	2926.2	2897.0
77.5°	3437.8	2277.3	1201.5	1359.3	1435.3	1713.1	2423.4	2671.9	2590.1	2476.0	2438.0
80°	1391.5	1072.9	967.6	1125.5	1169.3	1379.8	2017.1	2172.0	2110.6	1911.8	1847.5
82.5°	698.7	643.1	760.1	885.8	888.7	985.2	1499.7	1645.8	1508.4	1265.8	1210.2
85°	365.4	377.1	523.3	622.7	549.6	532.0	900.4	996.8	915.0	795.1	716.2
87.5°	131.5	152.0	274.8	271.9	192.9	102.3	198.8	96.5	52.6	32.2	40.9
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)