

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: P457984

Luminaire Tested: **GALN-SA9B-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457984
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-SA9B-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51155 lumens
Efficiency: N/A
Efficacy: 140.5 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): 364
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

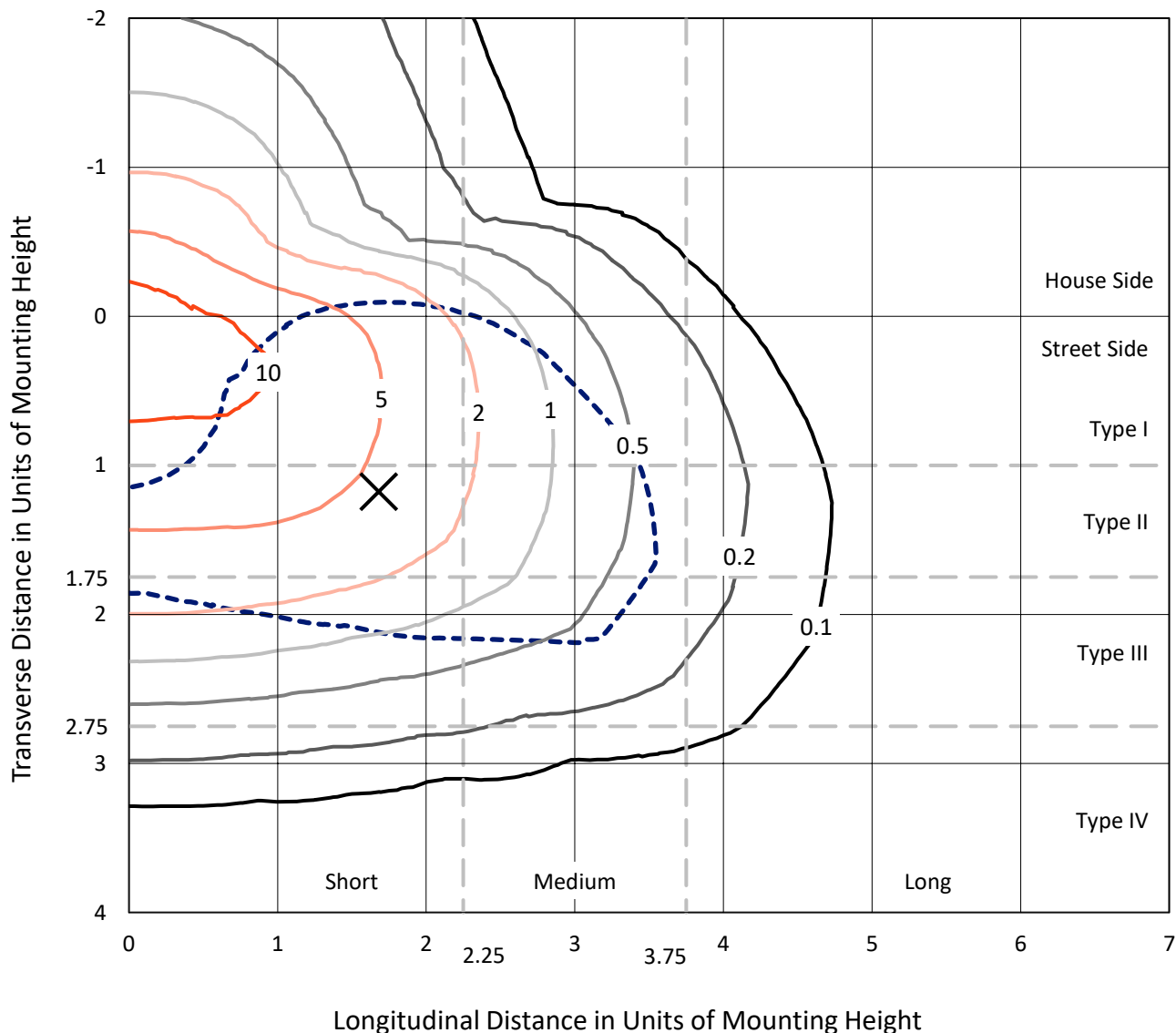


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Iso-Footcandle Lines of Horizontal Illumination

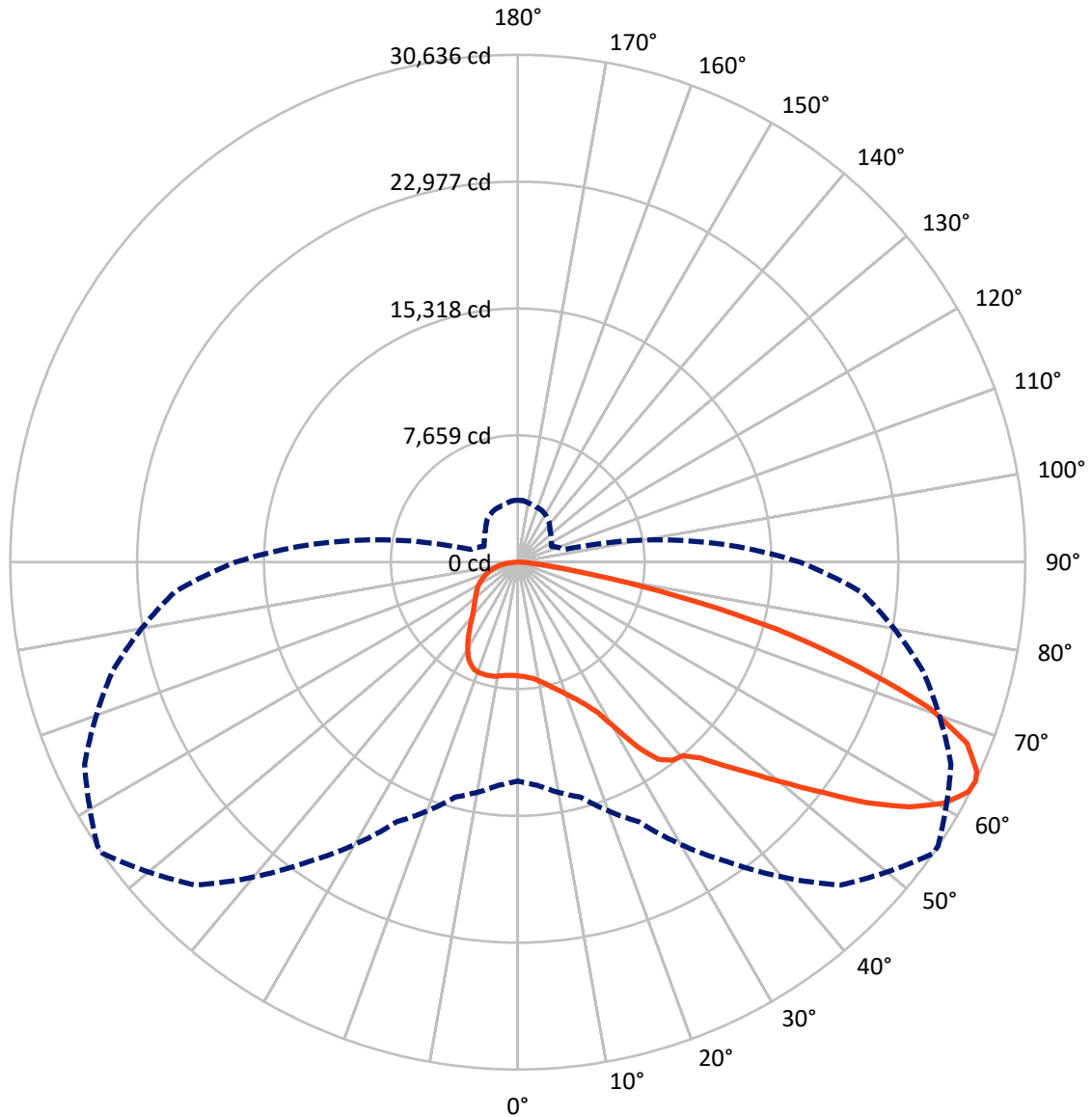
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	12426.6	0.0	12426.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	38728.5	0.0	38728.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	51155.0	0.0	51155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.6	1.3
10°-20°	2106.6	4.1
20°-30°	3750.3	7.3
30°-40°	5770.2	11.3
40°-50°	8179.7	16.0
50°-60°	11839.9	23.1
60°-70°	12253.1	24.0
70°-80°	5738.1	11.2
80°-90°	849.5	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°	51155.0	100.0
0°-180°	51155.0	100.0

Coefficient of Utilization



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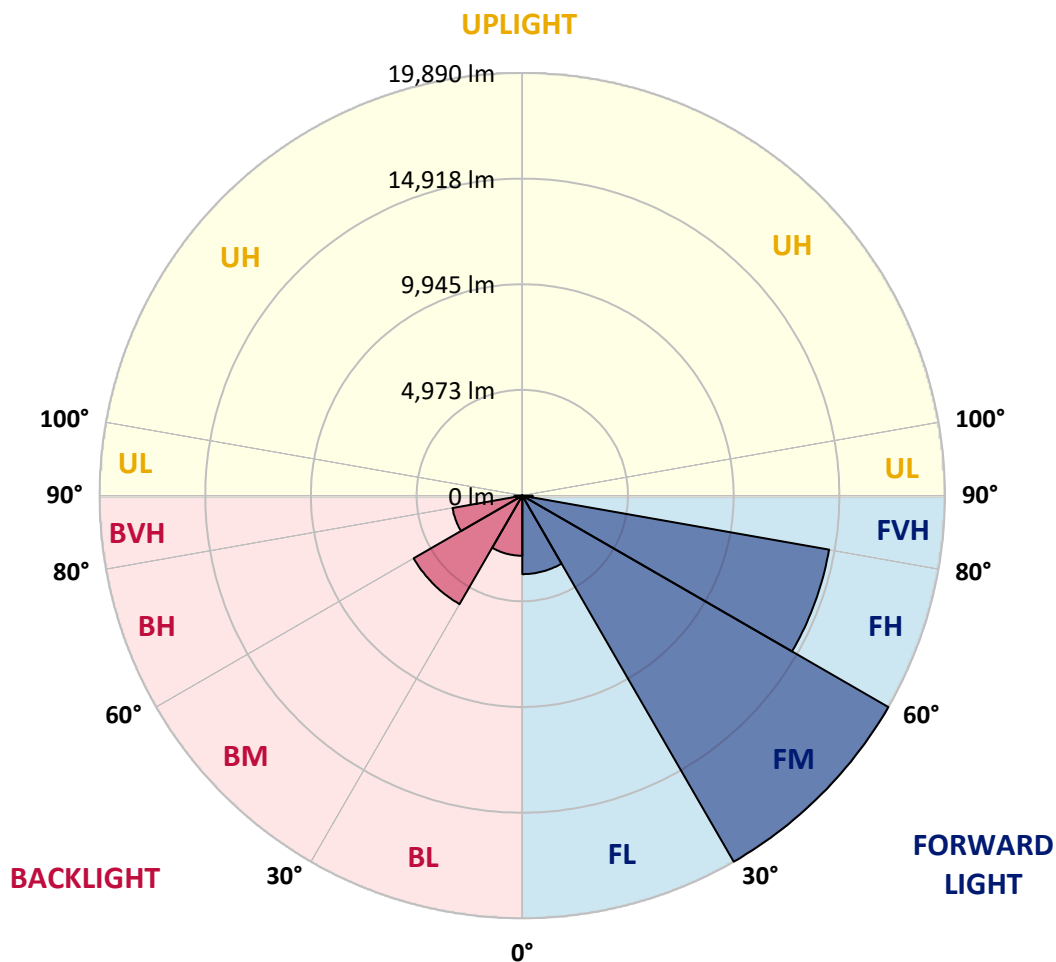
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3694.2	7.2			
FM	(30°-60°)	19890.5	38.9			
FH	(60°-80°)	14657.4	28.7			G5
FVH	(80°-90°)	486.4	1.0			G3/500
BL	(0°-30°)	2830.3	5.5	B4/5000		
BM	(30°-60°)	5899.4	11.5	B4/8500		
BH	(60°-80°)	3333.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	363.1	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°	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5
2.5°	6940.4	6937.6	6946.1	6937.6	6943.3	6923.3	6914.8	6920.5	6911.9	6897.7	6872.0
5°	7026.0	7023.1	7026.0	7014.6	7020.3	7008.9	6988.9	6994.6	6980.4	6949.0	6911.9
7.5°	7171.4	7160.0	7160.0	7157.2	7145.8	7128.6	7114.4	7108.7	7094.4	7054.5	6997.5
10°	7359.6	7359.6	7362.5	7339.7	7353.9	7322.5	7308.3	7305.4	7257.0	7205.6	7125.8
12.5°	7607.7	7621.9	7613.4	7602.0	7596.3	7584.9	7536.4	7547.8	7493.6	7405.2	7308.3
15°	7915.6	7938.5	7924.2	7918.5	7904.2	7861.5	7841.5	7833.0	7761.7	7633.4	7505.0
17.5°	8323.4	8294.9	8283.5	8269.2	8209.3	8178.0	8143.8	8138.1	8075.3	7924.2	7724.6
20°	8679.8	8719.8	8696.9	8682.7	8622.8	8562.9	8537.3	8528.7	8474.5	8309.1	7989.8
22.5°	9104.7	9113.3	9121.8	9087.6	9059.1	9013.5	8967.8	8953.6	8933.6	8762.5	8371.9
25°	9558.1	9592.3	9563.8	9529.6	9495.4	9492.5	9535.3	9529.6	9521.0	9355.6	8879.4
27.5°	10296.6	10328.0	10336.5	10299.5	10168.3	10179.7	10276.7	10308.0	10439.2	10165.4	9532.4
30°	10712.9	10744.3	10815.6	10955.3	11163.5	11345.9	11579.8	11651.1	11776.5	11260.4	10308.0
32.5°	10969.6	10981.0	11109.3	11368.8	11993.2	12674.7	13310.6	13336.3	13416.1	12691.8	11018.0
35°	11374.5	11383.0	11485.7	11770.8	12503.6	13638.5	14622.3	14653.6	14588.1	13136.7	11348.8
37.5°	11873.5	11896.3	11961.9	12198.5	13073.9	14445.5	15166.9	15144.1	14562.4	13490.2	11933.3
40°	12600.6	12600.6	12523.6	12843.0	13675.6	14907.4	15357.9	15318.0	15164.0	14513.9	12823.0
42.5°	13242.2	13230.8	13413.3	13630.0	14428.4	15620.3	16159.2	16224.8	16478.6	15799.9	13835.3
45°	14077.6	14129.0	14231.6	14625.1	15708.7	16837.9	17533.6	17596.3	17955.6	17314.0	15018.6
47.5°	14921.7	14938.8	15261.0	15785.7	17294.1	18488.8	19059.1	19161.8	19489.7	19084.8	16293.2
50°	15520.5	15683.0	16199.1	17026.0	18928.0	20502.0	20946.8	21069.4	21648.3	21012.4	17778.8
52.5°	16153.5	16313.2	16943.4	18203.7	20804.2	22560.7	23108.2	23190.9	23792.6	22962.8	19298.7
55°	16695.3	16843.6	17559.3	19247.3	22298.4	24662.3	25654.6	25557.6	25845.6	24465.5	20470.6
57.5°	16783.7	16903.4	17804.5	19914.6	23421.9	26464.4	27887.2	27944.3	27610.7	25589.0	21437.3
60°	16099.3	16344.6	17379.6	19843.3	23926.6	27719.0	29552.5	29592.4	28645.7	26165.0	21822.2
62.5°	14887.5	14861.8	16113.6	18697.0	23219.4	28004.2	30533.4	30490.6	29050.6	25888.4	21448.7
64°	13213.7	13521.6	14690.7	17288.4	22078.8	27565.0	30636.1	30613.2	28856.7	25312.4	20812.8
65°	12192.8	12175.7	13330.6	16136.4	20944.0	26903.5	30453.6	30422.2	28451.8	24796.3	20319.5
67.5°	8802.4	8842.4	9983.0	12452.3	17026.0	24317.2	29264.5	29147.6	26855.0	23085.4	18443.2
70°	5332.2	5355.0	6250.4	8260.7	12221.3	19657.9	26378.8	26384.5	24411.3	20530.5	15697.3
72.5°	2808.7	2868.6	3227.8	4690.6	7422.3	13792.5	21400.2	21907.7	20958.2	17522.2	12401.0
75°	1562.6	1571.2	1824.9	2312.5	3786.7	7718.9	16085.1	16230.5	16592.6	14103.3	9170.3
77.5°	1191.9	1209.0	1288.9	1494.2	2061.6	3578.6	9734.9	10464.8	11693.8	9943.0	5232.4
80°	966.6	983.8	1052.2	1174.8	1371.6	1696.6	4522.4	4915.9	6258.9	4414.1	2041.6
82.5°	752.8	741.4	829.8	909.6	998.0	1003.7	1856.3	2053.0	2549.2	1899.1	884.0
85°	558.9	558.9	630.2	613.1	644.4	587.4	818.4	903.9	1020.8	807.0	410.6
87.5°	222.4	245.2	413.5	370.7	288.0	231.0	302.3	319.4	353.6	316.5	171.1
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°	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5	6863.5
2.5°	6874.9	6883.4	6863.5	6849.2	6843.5	6834.9	6826.4	6829.2	6840.6	6852.1	6849.2
5°	6909.1	6911.9	6877.7	6860.6	6849.2	6837.8	6837.8	6846.3	6869.2	6886.3	6886.3
7.5°	6994.6	6994.6	6946.1	6914.8	6897.7	6877.7	6872.0	6874.9	6892.0	6914.8	6917.6
10°	7128.6	7117.2	7054.5	7006.0	6974.7	6926.2	6883.4	6860.6	6869.2	6883.4	6883.4
12.5°	7291.2	7259.8	7180.0	7114.4	7037.4	6946.1	6857.8	6812.1	6809.3	6823.5	6817.8
15°	7465.1	7430.9	7319.7	7199.9	7065.9	6931.9	6826.4	6760.8	6709.5	6695.2	6726.6
17.5°	7667.6	7596.3	7442.3	7276.9	7077.3	6903.4	6738.0	6604.0	6512.7	6487.1	6495.6
20°	7912.8	7818.7	7610.5	7351.1	7068.8	6800.7	6544.1	6364.5	6216.2	6170.6	6176.3
22.5°	8252.1	8089.6	7784.5	7388.1	6997.5	6606.8	6250.4	6016.6	5836.9	5765.6	5808.4
25°	8637.1	8460.3	7949.9	7379.6	6812.1	6296.0	5902.5	5597.4	5434.9	5329.4	5352.2
27.5°	9167.4	8853.8	8126.7	7302.6	6546.9	5916.8	5460.5	5172.5	5024.3	4970.1	4995.8
30°	9846.1	9364.2	8317.7	7094.4	6127.8	5437.7	5015.7	4827.5	4739.1	4670.7	4693.5
32.5°	10336.5	9723.5	8360.5	6743.7	5674.4	5001.5	4713.5	4573.7	4476.8	4411.2	4425.5
35°	10687.3	10028.6	8340.5	6313.1	5201.1	4642.2	4473.9	4359.9	4203.0	4060.5	4034.8
37.5°	11157.8	10410.7	8195.1	5842.6	4733.4	4399.8	4280.0	4069.0	3843.8	3652.7	3644.2
40°	11879.2	10858.3	7884.3	5289.5	4334.2	4220.2	4074.7	3801.0	3558.6	3404.6	3393.2
42.5°	12623.4	11271.8	7462.3	4707.8	4006.3	4032.0	3855.2	3584.3	3436.0	3336.2	3324.8
45°	13533.0	11719.5	7006.0	4203.0	3763.9	3855.2	3664.1	3507.3	3418.9	3353.3	3336.2
47.5°	14516.8	12178.6	6492.8	3749.7	3558.6	3692.6	3584.3	3513.0	3464.5	3418.9	3398.9
50°	15577.5	12691.8	6010.9	3384.7	3373.3	3524.4	3575.7	3550.1	3521.5	3507.3	3490.2
52.5°	16740.9	13216.5	5606.0	3128.0	3210.7	3404.6	3578.6	3598.5	3598.5	3590.0	3578.6
55°	17527.9	13581.5	5195.4	2919.9	3045.4	3307.7	3572.9	3649.9	3678.4	3667.0	3655.6
57.5°	18109.6	13781.1	4679.2	2740.3	2905.6	3213.6	3541.5	3655.6	3684.1	3698.3	3692.6
60°	18229.4	13595.7	4003.4	2552.1	2754.5	3076.7	3427.5	3570.0	3607.1	3695.5	3704.0
62.5°	17690.4	13025.5	3330.5	2366.7	2569.2	2868.6	3273.5	3473.1	3547.2	3684.1	3698.3
64°	17028.9	12386.7	2957.0	2249.8	2449.4	2751.7	3196.5	3447.4	3544.4	3726.9	3738.3
65°	16544.2	11921.9	2723.1	2175.7	2372.4	2674.7	3153.7	3456.0	3570.0	3792.4	3809.5
67.5°	14759.1	10322.3	2252.7	2001.7	2189.9	2543.5	3162.3	3527.3	3564.3	3818.1	3815.2
70°	12212.8	8217.9	1887.7	1842.0	2013.1	2438.0	3128.0	3413.2	3416.0	3584.3	3544.4
72.5°	9144.6	6073.6	1636.7	1676.7	1816.4	2187.1	2954.1	3259.2	3210.7	3233.6	3193.6
75°	6281.8	4017.7	1408.6	1499.9	1611.1	1933.3	2708.9	2959.8	2882.8	2854.3	2825.8
77.5°	3353.3	2221.3	1171.9	1325.9	1400.1	1671.0	2363.9	2606.2	2526.4	2415.2	2378.1
80°	1357.3	1046.5	943.8	1097.8	1140.6	1345.9	1967.5	2118.6	2058.8	1864.9	1802.1
82.5°	681.5	627.3	741.4	864.0	866.8	960.9	1462.8	1605.4	1471.4	1234.7	1180.5
85°	356.4	367.8	510.4	607.4	536.1	519.0	878.2	972.3	892.5	775.6	698.6
87.5°	128.3	148.3	268.0	265.2	188.2	99.8	193.9	94.1	51.3	31.4	39.9
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)