

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: P456360

Luminaire Tested: **GALN-SA7C-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456360
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-SA7C-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48560 lumens
Efficiency: N/A
Efficacy: 128.8 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

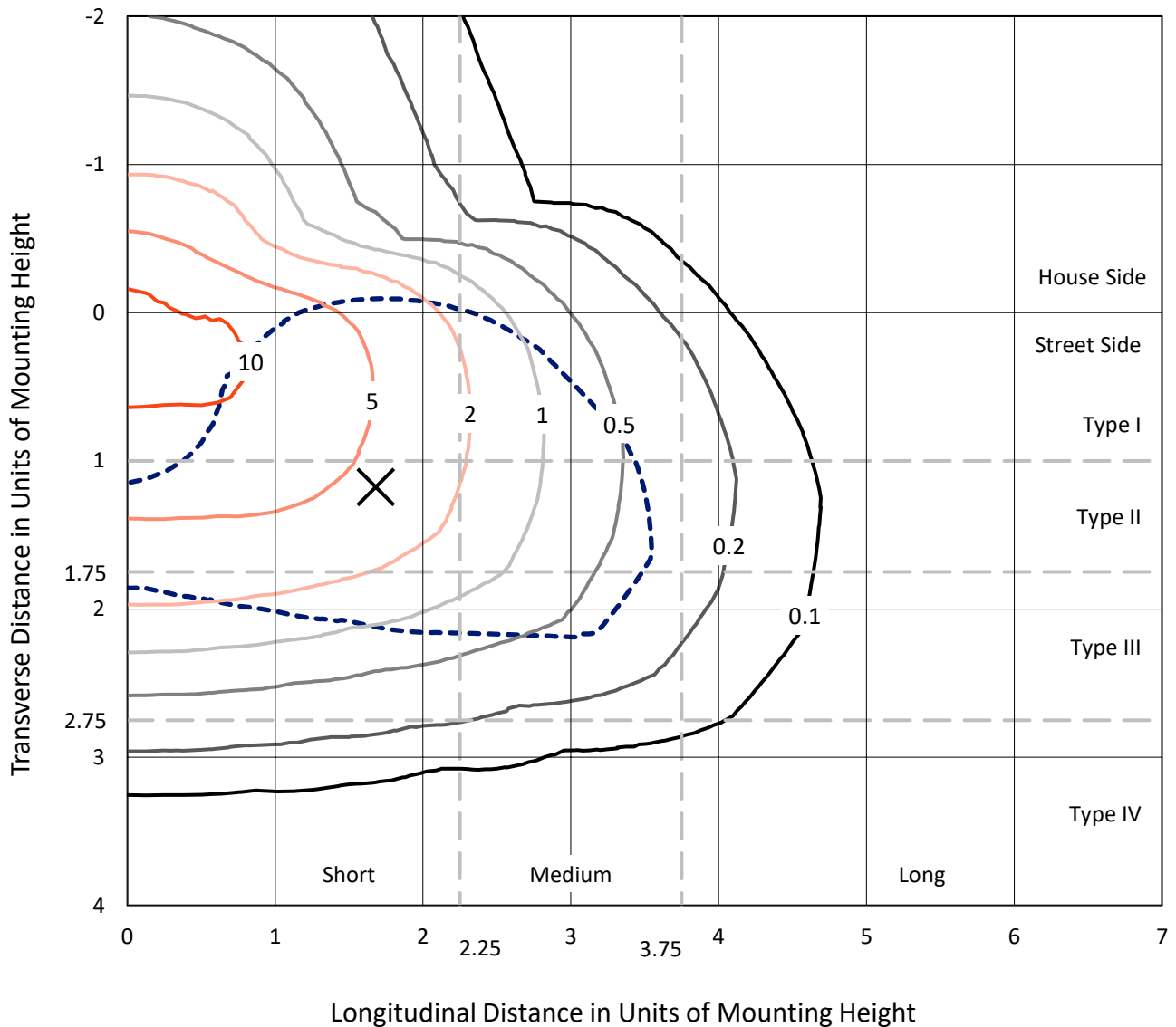
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456360
 CATALOG NUMBER: GALN-SA7C-760-U-T3

Iso-Footcandle Lines of Horizontal Illumination

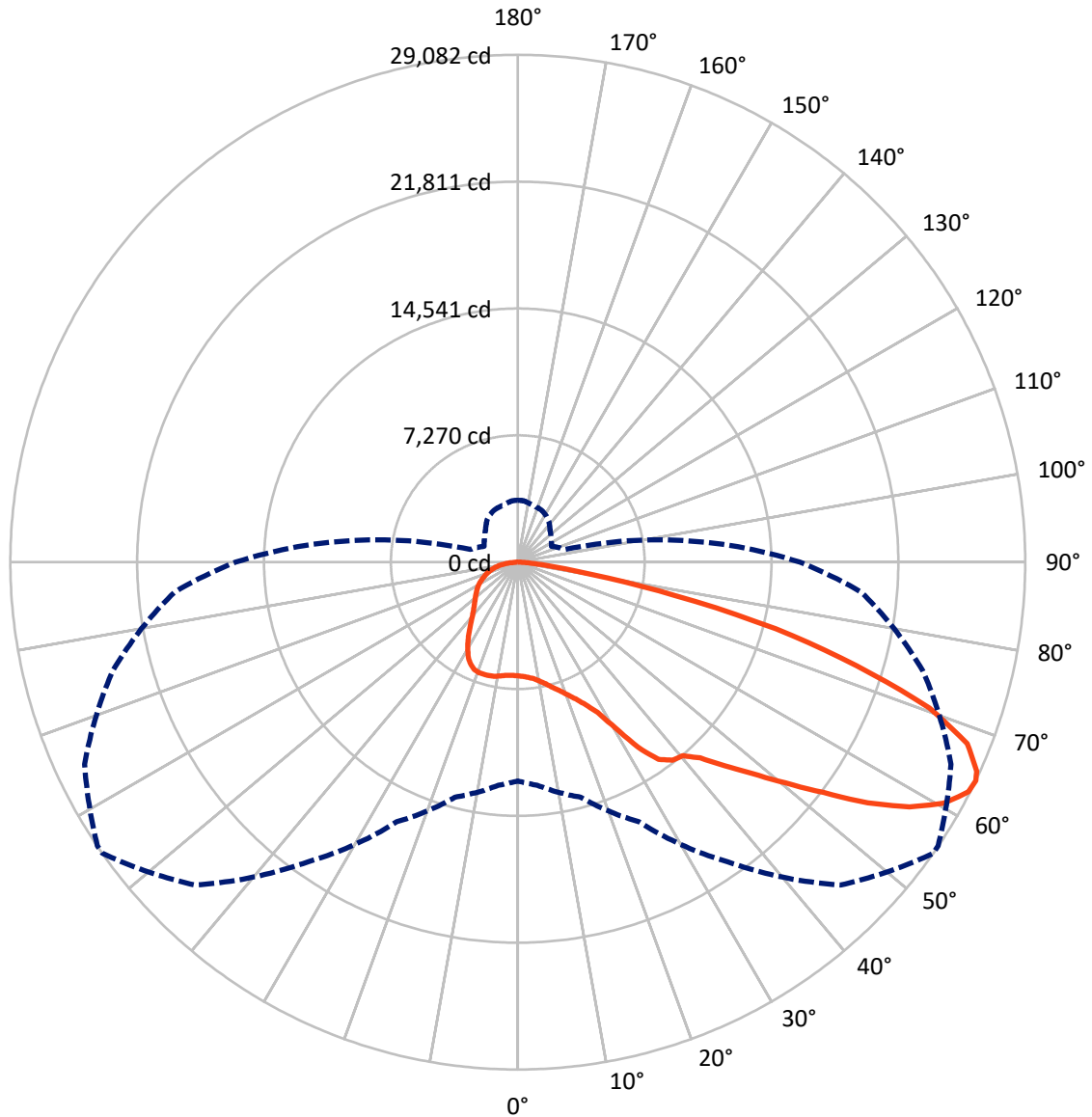
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

REPORT NUMBER: P456360
CATALOG NUMBER: GALN-SA7C-760-U-T3

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA7C-760-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11796.2	0.0	11796.2
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	36763.8	0.0	36763.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	48560.0	0.0	48560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.8	1.3
10°-20°	1999.7	4.1
20°-30°	3560.0	7.3
30°-40°	5477.5	11.3
40°-50°	7764.8	16.0
50°-60°	11239.3	23.1
60°-70°	11631.5	24.0
70°-80°	5447.0	11.2
80°-90°	806.4	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°	48560.0	100.0
0°-180°	48560.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456360

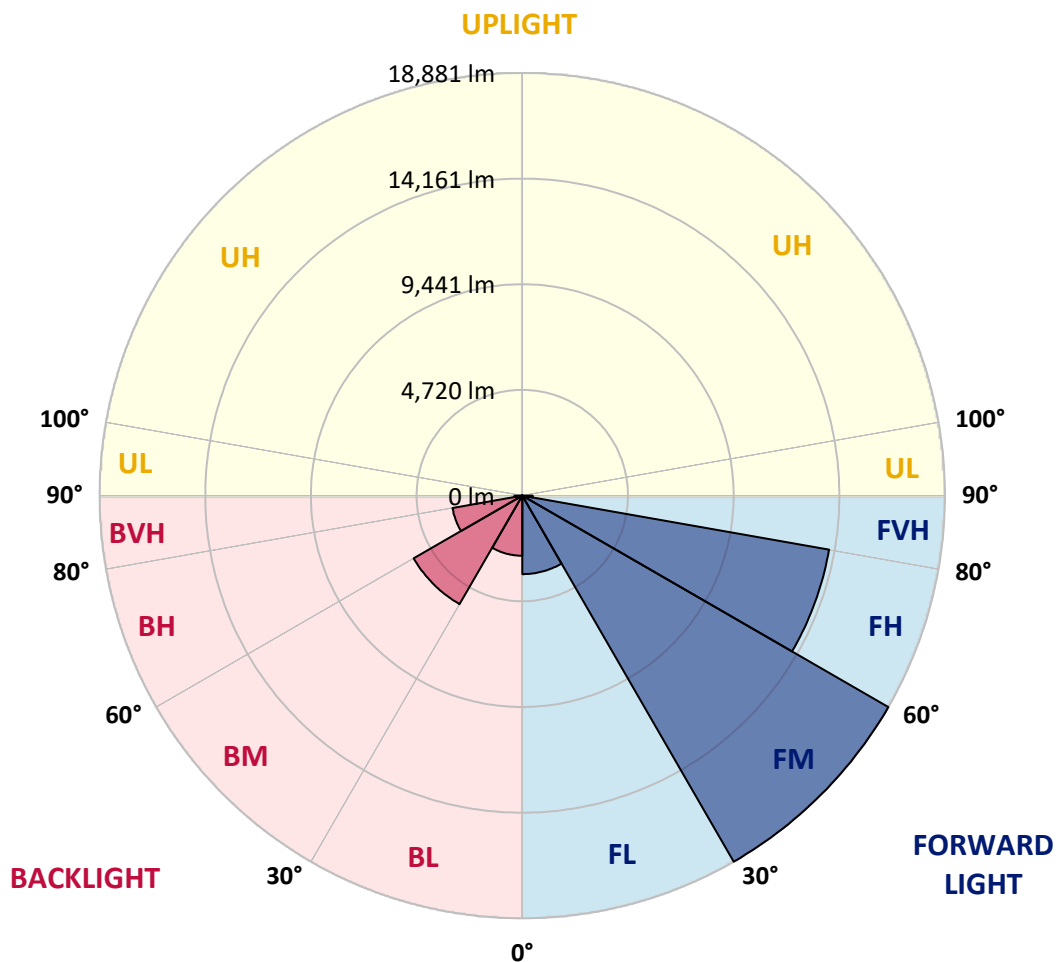
CATALOG NUMBER: GALN-SA7C-760-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3506.8	7.2			
FM	(30°-60°)	18881.5	38.9			
FH	(60°-80°)	13913.9	28.7			G5
FVH	(80°-90°)	461.7	1.0			G3/500
BL	(0°-30°)	2686.7	5.5	B4/5000		
BM	(30°-60°)	5600.1	11.5	B4/8500		
BH	(60°-80°)	3164.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	344.7	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





REPORT NUMBER: P456360

CATALOG NUMBER: GALN-SA7C-760-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3
2.5°	6588.4	6585.7	6593.8	6585.7	6591.1	6572.1	6564.0	6569.4	6561.3	6547.8	6523.4
5°	6669.6	6666.9	6669.6	6658.7	6664.2	6653.3	6634.4	6639.8	6626.3	6596.5	6561.3
7.5°	6807.6	6796.8	6796.8	6794.1	6783.3	6767.0	6753.5	6748.1	6734.5	6696.6	6642.5
10°	6986.3	6986.3	6989.0	6967.3	6980.9	6951.1	6937.5	6934.8	6888.8	6840.1	6764.3
12.5°	7221.8	7235.3	7227.2	7216.3	7210.9	7200.1	7154.1	7164.9	7113.5	7029.6	6937.5
15°	7514.1	7535.8	7522.2	7516.8	7503.3	7462.7	7443.7	7435.6	7367.9	7246.1	7124.3
17.5°	7901.2	7874.1	7863.3	7849.7	7792.9	7763.1	7730.6	7725.2	7665.7	7522.2	7332.7
20°	8239.5	8277.4	8255.8	8242.2	8185.4	8128.5	8104.2	8096.1	8044.6	7887.6	7584.5
22.5°	8642.8	8651.0	8659.1	8626.6	8599.5	8556.2	8512.9	8499.4	8480.4	8318.0	7947.2
25°	9073.2	9105.7	9078.6	9046.2	9013.7	9011.0	9051.6	9046.2	9038.0	8881.0	8429.0
27.5°	9774.3	9804.1	9812.2	9777.0	9652.5	9663.3	9755.3	9785.1	9909.6	9649.8	9048.9
30°	10169.5	10199.3	10266.9	10399.6	10597.2	10770.4	10992.3	11060.0	11179.1	10689.2	9785.1
32.5°	10413.1	10423.9	10545.7	10792.0	11384.8	12031.8	12635.4	12659.7	12735.5	12048.0	10459.1
35°	10797.5	10805.6	10903.0	11173.7	11869.4	12946.7	13880.5	13910.3	13848.0	12470.3	10773.1
37.5°	11271.1	11292.8	11355.1	11579.7	12410.7	13712.7	14397.5	14375.9	13823.7	12805.9	11328.0
40°	11961.4	11961.4	11888.3	12191.5	12981.9	14151.2	14578.9	14541.0	14394.8	13777.7	12172.5
42.5°	12570.4	12559.6	12732.8	12938.5	13696.4	14827.9	15339.5	15401.7	15642.6	14998.4	13133.4
45°	13363.5	13412.2	13509.7	13883.2	14911.8	15983.7	16644.2	16703.7	17044.8	16435.7	14256.8
47.5°	14164.7	14181.0	14486.8	14984.9	16416.8	17550.9	18092.3	18189.7	18501.0	18116.7	15466.7
50°	14733.2	14887.4	15377.4	16162.3	17967.8	19461.9	19884.2	20000.6	20550.1	19946.5	16876.9
52.5°	15334.1	15485.6	16083.9	17280.3	19748.9	21416.3	21936.0	22014.5	22585.6	21797.9	18319.7
55°	15848.4	15989.1	16668.5	18271.0	21167.2	23411.2	24353.1	24261.1	24534.5	23224.4	19432.2
57.5°	15932.3	16046.0	16901.3	18904.3	22233.7	25121.9	26472.6	26526.7	26210.0	24290.9	20349.8
60°	15282.6	15515.4	16498.0	18836.7	22712.8	26312.9	28053.4	28091.3	27192.6	24837.7	20715.2
62.5°	14132.2	14107.9	15296.2	17748.5	22041.5	26583.6	28984.5	28943.9	27577.0	24575.1	20360.6
64°	12543.3	12835.7	13945.5	16411.4	20958.8	26166.7	29081.9	29060.3	27392.9	24028.3	19757.0
65°	11574.3	11558.1	12654.3	15317.8	19881.5	25538.7	28908.7	28878.9	27008.5	23538.4	19288.7
67.5°	8355.9	8393.8	9476.5	11820.6	16162.3	23083.7	27780.0	27669.0	25492.7	21914.3	17507.6
70°	5061.7	5083.4	5933.3	7841.6	11601.4	18660.7	25040.7	25046.1	23173.0	19489.0	14901.0
72.5°	2666.2	2723.0	3064.1	4452.7	7045.8	13092.8	20314.6	20796.4	19895.0	16633.3	11771.9
75°	1483.3	1491.5	1732.4	2195.2	3594.6	7327.3	15269.1	15407.1	15750.9	13387.9	8705.1
77.5°	1131.4	1147.7	1223.5	1418.4	1957.0	3397.0	9241.0	9934.0	11100.6	9438.6	4967.0
80°	917.6	933.8	998.8	1115.2	1302.0	1610.6	4293.0	4666.5	5941.4	4190.1	1938.1
82.5°	714.6	703.8	787.7	863.5	947.4	952.8	1762.1	1948.9	2419.9	1802.7	839.1
85°	530.5	530.5	598.2	582.0	611.7	557.6	776.9	858.1	969.0	766.0	389.8
87.5°	211.1	232.8	392.5	351.9	273.4	219.3	286.9	303.2	335.6	300.5	162.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456360

CATALOG NUMBER: GALN-SA7C-760-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3	6515.3
2.5°	6526.1	6534.2	6515.3	6501.8	6496.3	6488.2	6480.1	6482.8	6493.6	6504.5	6501.8
5°	6558.6	6561.3	6528.8	6512.6	6501.8	6490.9	6490.9	6499.0	6520.7	6536.9	6536.9
7.5°	6639.8	6639.8	6593.8	6564.0	6547.8	6528.8	6523.4	6526.1	6542.4	6564.0	6566.7
10°	6767.0	6756.2	6696.6	6650.6	6620.9	6574.8	6534.2	6512.6	6520.7	6534.2	6534.2
12.5°	6921.3	6891.5	6815.7	6753.5	6680.4	6593.8	6509.9	6466.6	6463.9	6477.4	6472.0
15°	7086.4	7053.9	6948.4	6834.7	6707.5	6580.2	6480.1	6417.8	6369.1	6355.6	6385.4
17.5°	7278.6	7210.9	7064.8	6907.8	6718.3	6553.2	6396.2	6269.0	6182.3	6158.0	6166.1
20°	7511.4	7422.1	7224.5	6978.2	6710.2	6455.7	6212.1	6041.6	5900.8	5857.5	5862.9
22.5°	7833.5	7679.2	7389.6	7013.3	6642.5	6271.7	5933.3	5711.4	5540.8	5473.2	5513.8
25°	8198.9	8031.1	7546.6	7005.2	6466.6	5976.6	5603.1	5313.5	5159.2	5059.0	5080.7
27.5°	8702.4	8404.6	7714.4	6932.1	6214.8	5616.6	5183.5	4910.1	4769.4	4718.0	4742.3
30°	9346.6	8889.2	7895.8	6734.5	5816.9	5161.9	4761.3	4582.6	4498.7	4433.8	4455.4
32.5°	9812.2	9230.2	7936.4	6401.6	5386.5	4747.7	4474.4	4341.7	4249.7	4187.4	4201.0
35°	10145.1	9519.8	7917.4	5992.9	4937.2	4406.7	4247.0	4138.7	3989.8	3854.5	3830.1
37.5°	10591.7	9882.6	7779.4	5546.2	4493.3	4176.6	4062.9	3862.6	3648.8	3467.4	3459.3
40°	11276.6	10307.5	7484.3	5021.1	4114.3	4006.1	3868.0	3608.2	3378.1	3231.9	3221.1
42.5°	11983.0	10700.0	7083.7	4468.9	3803.1	3827.4	3659.6	3402.5	3261.7	3167.0	3156.1
45°	12846.5	11125.0	6650.6	3989.8	3573.0	3659.6	3478.2	3329.4	3245.5	3183.2	3167.0
47.5°	13780.4	11560.8	6163.4	3559.5	3378.1	3505.3	3402.5	3334.8	3288.8	3245.5	3226.5
50°	14787.3	12048.0	5706.0	3213.0	3202.2	3345.6	3394.3	3370.0	3342.9	3329.4	3313.1
52.5°	15891.7	12546.1	5321.6	2969.4	3047.9	3231.9	3397.0	3416.0	3416.0	3407.9	3397.0
55°	16638.7	12892.5	4931.8	2771.8	2890.9	3139.9	3391.6	3464.7	3491.8	3481.0	3470.1
57.5°	17190.9	13082.0	4441.9	2601.2	2758.2	3050.6	3361.9	3470.1	3497.2	3510.7	3505.3
60°	17304.6	12906.1	3800.4	2422.6	2614.8	2920.6	3253.6	3388.9	3424.1	3508.0	3516.1
62.5°	16793.0	12364.7	3161.6	2246.7	2438.8	2723.0	3107.4	3296.9	3367.3	3497.2	3510.7
64°	16165.1	11758.4	2807.0	2135.7	2325.1	2612.1	3034.3	3272.5	3364.6	3537.8	3548.6
65°	15704.9	11317.2	2585.0	2065.3	2252.1	2539.0	2993.7	3280.7	3388.9	3600.1	3616.3
67.5°	14010.4	9798.6	2138.4	1900.2	2078.8	2414.5	3001.8	3348.3	3383.5	3624.4	3621.7
70°	11593.3	7801.0	1791.9	1748.6	1911.0	2314.3	2969.4	3240.0	3242.8	3402.5	3364.6
72.5°	8680.7	5765.5	1553.7	1591.6	1724.2	2076.1	2804.3	3093.9	3047.9	3069.5	3031.6
75°	5963.1	3813.9	1337.2	1423.8	1529.3	1835.2	2571.5	2809.7	2736.6	2709.5	2682.4
77.5°	3183.2	2108.6	1112.5	1258.7	1329.0	1586.2	2243.9	2474.0	2398.2	2292.7	2257.5
80°	1288.4	993.4	896.0	1042.1	1082.7	1277.6	1867.7	2011.2	1954.3	1770.3	1710.7
82.5°	646.9	595.5	703.8	820.2	822.9	912.2	1388.6	1523.9	1396.7	1172.0	1120.6
85°	338.4	349.2	484.5	576.6	508.9	492.6	833.7	923.0	847.2	736.3	663.2
87.5°	121.8	140.8	254.4	251.7	178.6	94.7	184.1	89.3	48.7	29.8	37.9
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)