

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: P458198

Luminaire Tested: **GALN-SA9C-760-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458198
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-760-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 64359 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

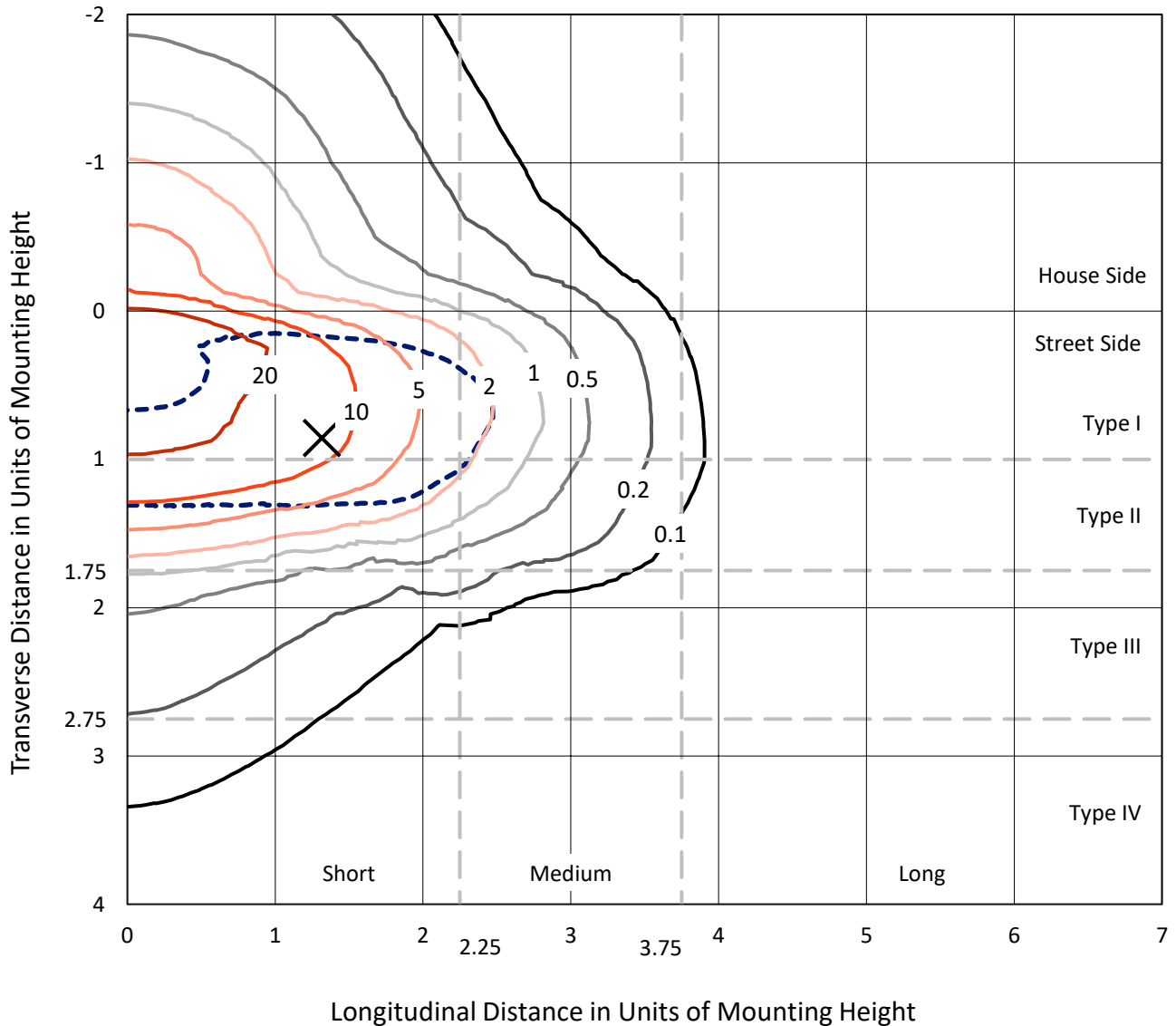
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

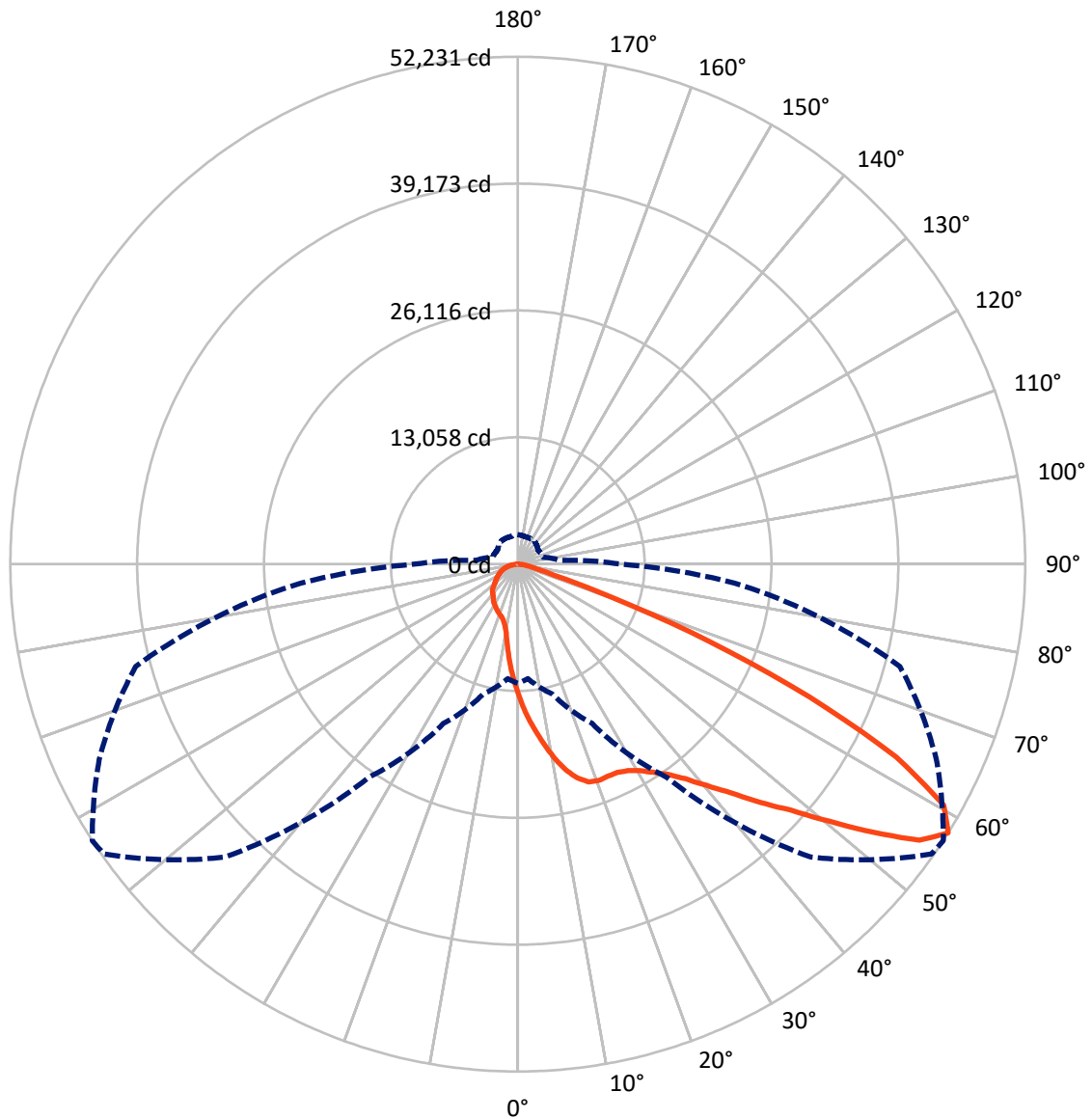
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 32.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9787.2	0.0	9787.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	54571.8	0.0	54571.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	64359.0	0.0	64359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1299.5	2.0
10°-20°	3829.7	6.0
20°-30°	6359.3	9.9
30°-40°	9579.0	14.9
40°-50°	14381.9	22.3
50°-60°	16120.4	25.0
60°-70°	9434.4	14.7
70°-80°	2790.6	4.3
80°-90°	564.1	0.9
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°	64359.0	100.0
0°-180°	64359.0	100.0

Coefficient of Utilization



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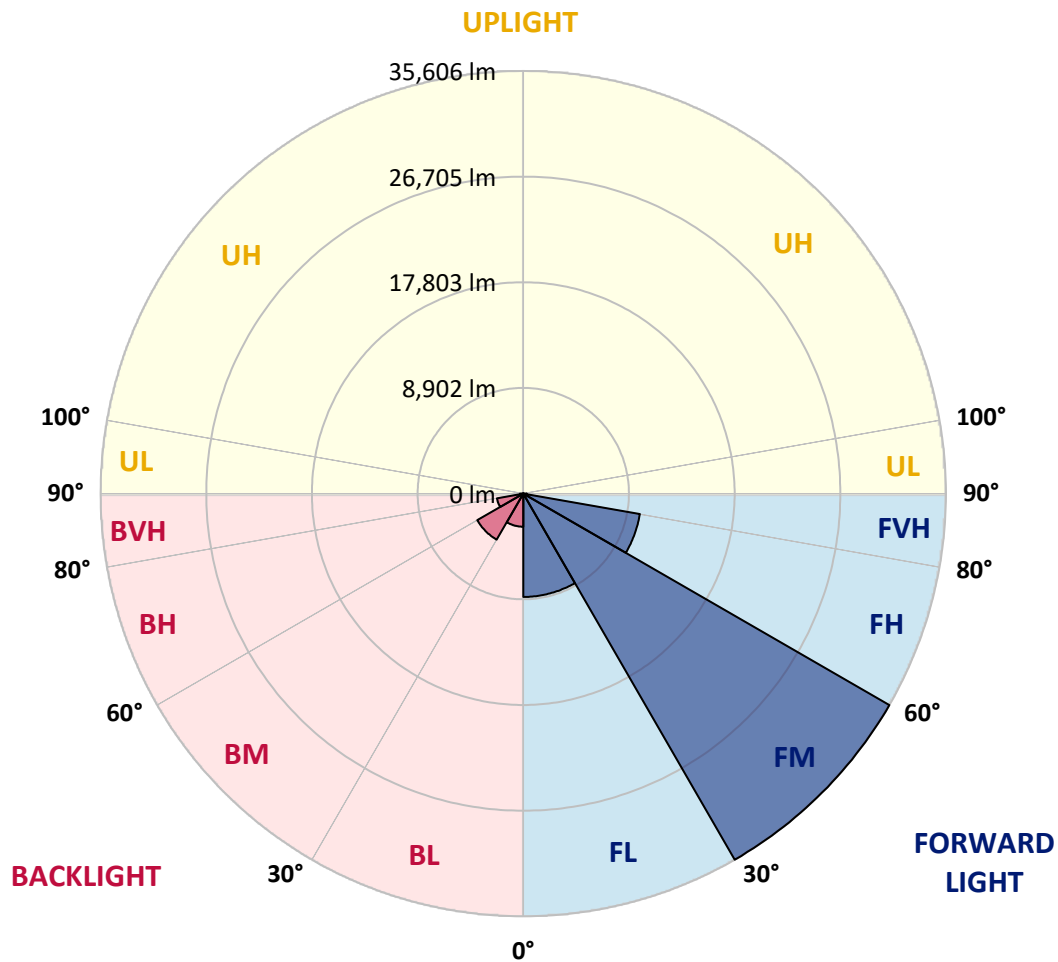
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8699.9	13.5			
FM	(30°-60°)	35606.2	55.3			
FH	(60°-80°)	9973.1	15.5			G4/12000
FVH	(80°-90°)	292.7	0.5			G3/500
BL	(0°-30°)	2788.7	4.3	B4/5000		
BM	(30°-60°)	4475.1	7.0	B3/5000		
BH	(60°-80°)	2252.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	271.4	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1
2.5°	16801.0	16617.8	16473.3	16346.5	16180.9	15733.5	15286.1	15279.0	14923.2	14373.6	13810.0
5°	19538.3	19291.7	19323.4	18928.8	18534.2	17886.0	16938.4	16889.0	16131.6	15102.9	14056.6
7.5°	21320.9	21324.4	21225.8	21000.3	20574.0	19837.7	18763.2	18520.2	17466.8	15906.1	14338.4
10°	21229.3	21324.4	21490.0	21683.8	21814.1	21451.3	20471.9	20175.9	18805.5	16878.5	14652.0
12.5°	20010.4	20158.3	20394.4	20880.5	21666.2	22265.1	21930.4	21690.8	20355.6	17847.3	14997.2
15°	19249.4	19337.5	19467.8	19795.5	20641.0	22074.8	22941.5	22814.6	21817.6	18942.9	15384.7
17.5°	19016.9	19105.0	19147.2	19348.1	19950.5	21419.5	23339.6	23565.0	23114.1	19950.5	15775.8
20°	19249.4	19291.7	19291.7	19411.5	19883.5	21035.5	23321.9	23776.4	24178.0	21158.8	16142.2
22.5°	19858.9	19876.5	19851.8	19894.1	20246.4	21141.2	23156.4	23720.0	25037.6	22184.0	16427.5
25°	20848.8	20877.0	20715.0	20616.3	20873.5	21606.3	23248.0	23765.8	25710.5	23163.4	16617.8
27.5°	21972.7	22007.9	21810.6	21581.6	21701.4	22180.5	23607.3	24072.3	26214.3	24128.7	16737.5
30°	23350.1	23364.2	23033.1	22758.3	22680.8	23036.6	24220.3	24653.6	26841.4	25266.6	16917.2
32.5°	24759.3	24865.0	24438.7	24051.2	23920.8	24030.1	25125.7	25544.9	27588.2	26489.1	17206.1
35°	26675.8	26693.4	26182.6	25710.5	25280.7	25421.6	26284.7	26587.7	28620.5	27901.8	17614.8
37.5°	29067.9	29229.9	28525.3	27644.6	27116.2	26911.8	27686.9	28018.0	30068.4	29635.1	18231.3
40°	31724.2	31784.1	31181.6	30632.1	29666.8	29074.9	29610.4	29969.8	31854.5	31703.0	18946.4
42.5°	33394.1	33524.4	33570.2	33513.8	32788.1	31794.6	31999.0	32168.1	33968.3	33644.2	19679.2
45°	33957.7	34151.5	34806.8	36194.8	36272.3	35292.9	34817.3	34979.4	36272.3	35603.0	20380.3
47.5°	33024.2	33355.3	34563.7	37410.2	39541.6	39615.6	38181.8	37825.9	38372.0	37227.0	20887.6
50°	30610.9	30681.4	32530.9	36652.8	41074.1	43748.0	42264.9	41602.5	40366.0	38428.4	21236.4
52.5°	26876.6	26957.6	28507.7	33133.4	40129.9	46636.8	47042.0	45858.3	42391.7	39361.9	21465.3
55°	19950.5	20419.0	22124.1	26594.8	35655.8	46365.6	50839.7	50166.8	44840.1	40101.8	21824.7
57.5°	12266.9	11837.1	13859.3	18093.9	26816.7	42638.3	52012.9	52231.3	47535.2	40721.8	22427.1
60°	5643.8	5728.3	6563.3	9332.3	16346.5	33355.3	48990.2	50371.2	49025.4	40700.7	22578.6
62.5°	3889.3	3811.8	3600.5	4097.2	7454.6	21095.4	41380.6	43719.8	46037.9	39435.9	21976.2
65°	3477.2	3399.6	2991.0	2853.6	3424.3	9194.9	30082.5	33034.7	38763.0	36244.1	20475.4
67.5°	3248.2	3142.5	2719.7	2452.0	2444.9	3660.3	17738.1	21292.7	28750.8	30642.6	17741.6
70°	3008.6	2924.1	2504.8	2208.9	2082.1	2300.5	7796.3	10206.0	18668.1	22081.9	13820.5
72.5°	2769.0	2670.4	2293.4	1976.4	1810.8	1722.7	2987.5	3885.8	10547.7	13239.3	8472.7
75°	2420.3	2370.9	2050.4	1789.7	1610.0	1391.6	1895.3	2163.1	5044.9	6080.6	4252.2
77.5°	2117.3	2064.4	1821.4	1564.2	1433.8	1130.9	1345.8	1469.1	2127.9	2466.1	1920.0
80°	1550.1	1602.9	1536.0	1381.0	1278.8	887.8	905.4	1007.6	1264.7	1398.6	1173.1
82.5°	982.9	1081.5	1183.7	1063.9	968.8	701.1	627.1	665.8	863.1	916.0	521.4
85°	412.2	419.2	687.0	648.2	553.1	415.7	377.0	398.1	461.5	482.6	243.1
87.5°	158.5	155.0	243.1	225.5	172.6	119.8	119.8	133.9	183.2	169.1	77.5
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°	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1	13521.1
2.5°	13566.9	13316.8	12820.0	12203.5	11752.6	11245.3	10797.8	10477.3	10357.5	10301.1	10195.4
5°	13556.3	13063.1	12034.4	10956.4	10089.7	9202.0	8451.6	7965.4	7923.1	7599.0	7567.3
7.5°	13559.8	12805.9	11167.8	9582.4	8261.3	7352.4	6732.4	6570.3	6376.5	6327.2	6351.9
10°	13570.4	12478.3	10237.7	8222.6	6943.7	6348.4	6115.8	6052.4	6059.5	6080.6	6084.1
12.5°	13584.5	12161.2	9272.4	7190.3	6203.9	5957.3	5932.7	5989.0	6048.9	6094.7	6105.3
15°	13602.1	11798.4	8331.8	6358.9	5834.0	5812.9	5893.9	5989.0	6073.6	6140.5	6151.1
17.5°	13581.0	11375.6	7542.6	5848.1	5629.7	5731.8	5865.7	5985.5	6063.0	6126.4	6133.5
20°	13531.7	10903.5	6781.7	5488.8	5502.9	5668.4	5812.9	5925.6	6010.2	6041.9	6066.5
22.5°	13341.4	10339.9	6119.4	5210.4	5351.4	5580.4	5753.0	5819.9	5724.8	5657.9	5675.5
25°	13017.3	9607.1	5502.9	4985.0	5214.0	5457.1	5633.2	5471.1	5393.6	5365.5	5379.5
27.5°	12612.2	8803.9	5037.8	4748.9	5037.8	5319.7	5270.3	5242.2	5206.9	5161.1	5171.7
30°	12175.3	8018.2	4643.3	4565.7	4847.6	5009.6	5030.8	5076.6	5037.8	4967.4	4995.5
32.5°	11770.2	7278.4	4343.8	4410.7	4713.7	4689.0	4847.6	4900.4	4720.8	4484.7	4495.3
35°	11424.9	6591.4	4118.3	4259.2	4484.7	4495.3	4653.8	4470.6	4276.9	4164.1	4171.2
37.5°	11164.2	6056.0	3970.4	4128.9	4192.3	4326.2	4241.6	4146.5	4121.9	4044.3	4047.9
40°	11009.2	5587.4	3875.2	4026.7	4016.2	4107.8	3836.5	3931.6	3966.8	3942.2	3945.7
42.5°	10854.2	5256.2	3776.6	3885.8	3882.3	3702.6	3642.7	3723.8	3815.4	3825.9	3818.9
45°	10730.9	4999.1	3674.4	3670.9	3741.4	3459.5	3441.9	3491.2	3621.6	3685.0	3681.5
47.5°	10593.5	4784.2	3519.4	3420.8	3441.9	3308.1	3279.9	3301.0	3459.5	3561.7	3589.9
50°	10420.9	4569.3	3325.7	3191.8	3103.7	3167.1	3174.2	3177.7	3336.2	3452.5	3477.2
52.5°	10283.5	4407.2	3103.7	3005.1	2899.4	3040.3	3093.2	3100.2	3195.3	3290.4	3308.1
55°	10364.5	4315.6	2885.3	2814.8	2719.7	2910.0	3012.1	3026.2	3047.4	3117.8	3128.4
57.5°	10607.6	4336.8	2709.1	2617.6	2547.1	2754.9	2927.6	2938.1	2924.1	3008.6	3022.7
60°	10681.6	4326.2	2578.8	2399.1	2356.9	2589.4	2804.3	2825.4	2821.9	2945.2	2969.8
62.5°	10371.6	4192.3	2448.5	2215.9	2187.8	2420.3	2631.6	2716.2	2733.8	2910.0	2941.7
65°	9642.3	3917.5	2275.8	2022.2	2022.2	2240.6	2466.1	2582.3	2631.6	2867.7	2902.9
67.5°	8680.6	3593.4	2099.7	1856.6	1849.5	2068.0	2289.9	2409.7	2487.2	2807.8	2828.9
70°	7204.4	3156.6	1881.3	1676.9	1676.9	1874.2	2075.0	2219.5	2332.2	2695.1	2695.1
72.5°	4935.7	2624.6	1617.0	1472.6	1476.1	1659.3	1863.6	2025.7	2159.6	2469.6	2476.6
75°	3121.3	2050.4	1328.2	1254.2	1268.3	1440.9	1652.3	1821.4	2089.1	2441.4	2452.0
77.5°	1659.3	1440.9	1056.9	1039.3	1056.9	1215.4	1451.5	1684.0	2096.2	2117.3	2082.1
80°	1074.5	1021.7	834.9	799.7	806.8	979.4	1292.9	1599.4	1684.0	1705.1	1627.6
82.5°	584.8	648.2	591.9	556.6	556.6	764.5	1102.7	1271.8	1208.4	1004.0	958.2
85°	250.1	303.0	306.5	267.7	257.2	472.1	739.8	694.0	644.7	616.5	609.5
87.5°	70.5	98.6	98.6	74.0	56.4	130.3	148.0	42.3	0.0	3.5	7.0
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)