

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: P300428

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-03-LED-E1-AFL-7030-600
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11839.1 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

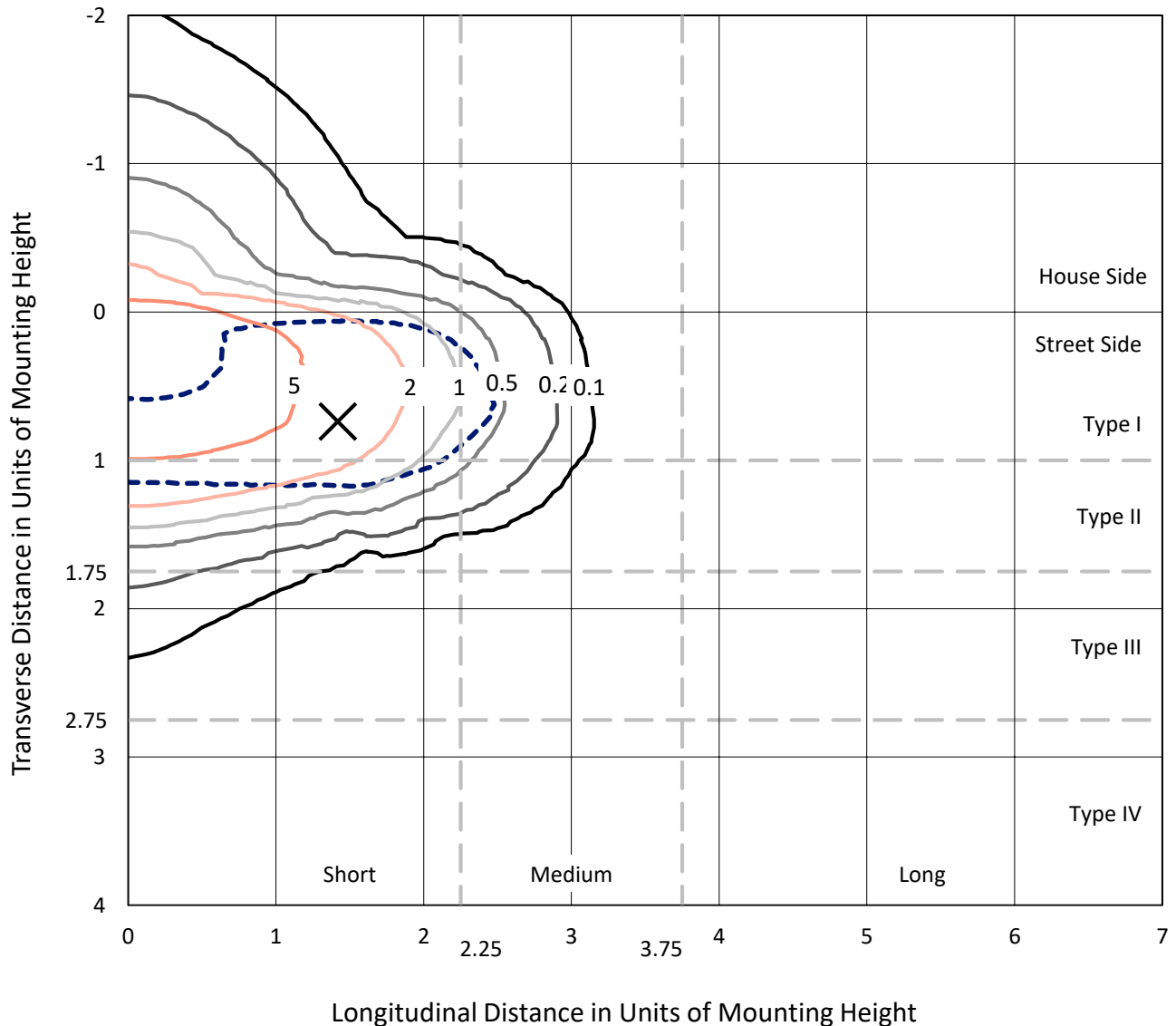
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

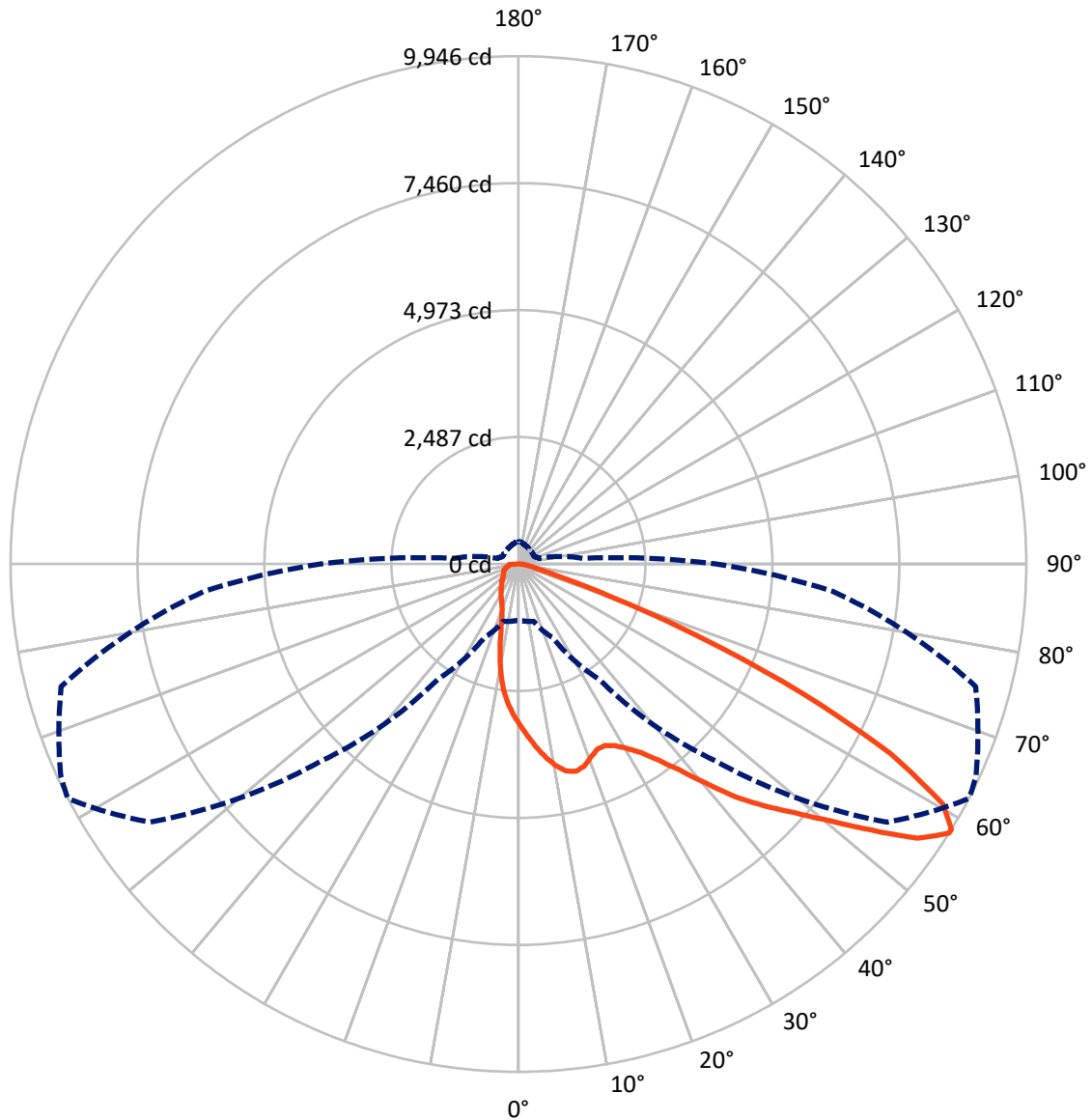
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.5	0.0	1805.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10033.6	0.0	10033.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	11839.1	0.0	11839.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	2.4
10°-20°	718.9	6.1
20°-30°	1162.2	9.8
30°-40°	1845.0	15.6
40°-50°	2699.6	22.8
50°-60°	2823.5	23.8
60°-70°	1668.1	14.1
70°-80°	469.9	4.0
80°-90°	170.6	1.4
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°	11839.1	100.0
0°-180°	11839.1	100.0



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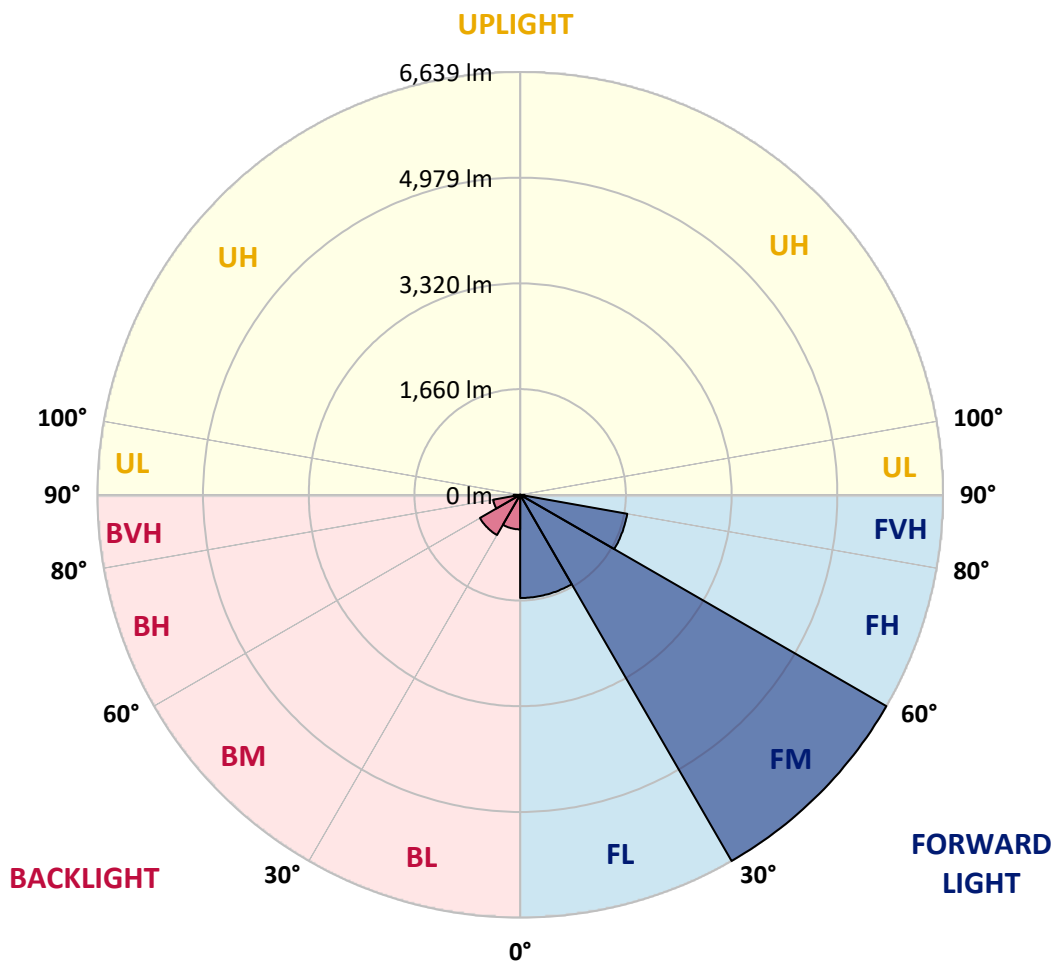
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.7	13.7			
FM	(30°-60°)	6639.3	56.1			
FH	(60°-80°)	1707.2	14.4			G1/1800
FVH	(80°-90°)	67.3	0.6			G1/100
BL	(0°-30°)	542.6	4.6	B2/1000		
BM	(30°-60°)	728.7	6.2	B1/1000		
BH	(60°-80°)	430.8	3.6	B1/500		G1/500
BVH	(80°-90°)	103.3	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8
2.5°	3593.6	3564.6	3546.2	3530.0	3508.9	3463.7	3402.9	3364.5	3345.0	3278.6	3200.0
5°	3945.9	3920.3	3901.3	3879.6	3841.7	3770.9	3672.8	3594.7	3556.2	3423.6	3266.3
7.5°	3863.4	3874.0	3906.9	3964.3	4013.4	4003.9	3916.4	3817.1	3766.4	3581.9	3343.3
10°	3366.1	3384.5	3441.4	3575.8	3793.2	4016.2	4084.2	4015.6	3964.3	3738.5	3422.4
12.5°	3266.3	3265.8	3270.2	3305.9	3435.3	3749.1	4089.8	4158.9	4128.2	3888.0	3503.3
15°	3307.0	3308.2	3304.8	3319.9	3360.0	3484.3	3919.2	4214.1	4235.8	4038.5	3586.9
17.5°	3414.1	3411.3	3398.5	3398.5	3413.0	3461.5	3718.5	4162.8	4263.1	4171.7	3660.5
20°	3593.6	3580.8	3546.8	3515.5	3499.9	3526.1	3636.0	4044.6	4215.8	4288.2	3721.3
22.5°	3811.0	3801.0	3745.8	3678.9	3624.8	3624.3	3678.3	3941.5	4133.8	4398.1	3772.5
25°	4092.0	4075.8	3993.9	3886.8	3792.1	3755.8	3770.9	3936.5	4089.2	4517.4	3818.3
27.5°	4422.0	4392.5	4295.5	4141.1	4001.7	3928.6	3906.9	4027.3	4129.9	4665.1	3881.8
30°	4822.3	4788.3	4664.0	4462.7	4265.9	4146.1	4099.8	4188.4	4264.8	4845.2	3983.8
32.5°	5277.8	5228.7	5084.9	4863.0	4604.3	4421.5	4346.2	4401.4	4462.2	5062.0	4111.5
35°	5907.2	5848.7	5640.7	5334.6	5042.5	4791.1	4670.7	4710.8	4769.9	5385.4	4296.0
37.5°	6336.5	6310.3	6172.0	5884.3	5566.6	5277.2	5091.0	5114.4	5147.9	5789.6	4532.4
40°	6332.6	6343.1	6345.9	6348.7	6132.4	5855.3	5655.2	5630.7	5624.0	6233.3	4801.1
42.5°	6015.3	6058.8	6199.3	6484.2	6615.8	6488.7	6305.2	6234.4	6199.3	6756.2	5086.0
45°	5529.8	5553.2	5816.3	6372.7	6863.3	7115.8	6977.0	6754.0	6690.5	7236.8	5322.4
47.5°	5279.5	5305.1	5470.7	6077.2	6860.5	7622.6	7702.9	7278.1	7164.3	7654.9	5526.4
50°	4683.5	4737.0	4945.5	5563.2	6610.2	7855.6	8461.6	7902.5	7667.2	8061.9	5731.0
52.5°	3589.1	3671.6	3905.2	4718.1	5975.2	7740.2	9068.7	8659.5	8327.3	8483.4	5906.6
55°	2264.0	2325.3	2521.5	3332.1	4779.9	7139.8	9299.0	9478.5	9183.0	8882.5	6058.8
57.5°	1230.9	1258.3	1331.8	1839.7	3109.1	5812.4	8963.4	9944.5	9821.9	9221.5	6173.7
58°	1101.6	1120.0	1165.7	1594.4	2757.4	5449.5	8814.5	9946.2	9884.9	9271.1	6182.6
60°	817.3	807.8	767.1	909.8	1534.8	3764.7	7914.7	9548.2	9728.2	9331.9	6139.1
62.5°	718.0	695.2	612.1	602.6	746.5	1734.4	6056.0	8179.0	8604.3	8985.1	5874.9
65°	674.6	650.0	543.0	508.4	538.5	733.7	3567.4	6134.1	6667.6	7933.7	5199.2
67.5°	642.2	610.5	499.0	451.6	453.8	485.0	1430.0	3863.4	4463.8	6023.7	4044.0
70°	611.0	576.4	461.6	407.0	394.1	383.6	568.6	1933.9	2478.6	3804.9	2578.4
72.5°	577.6	543.6	428.7	371.8	346.8	311.6	371.3	791.1	1104.9	1800.1	1169.6
75°	529.1	498.4	395.8	340.6	304.9	258.1	280.4	413.1	495.6	716.9	563.6
77.5°	469.4	444.3	359.0	315.0	270.4	209.6	215.7	286.6	317.8	410.3	335.1
80°	337.3	346.2	319.4	283.2	240.8	170.0	165.6	209.1	225.8	263.7	218.0
82.5°	236.9	242.0	264.3	231.4	199.0	133.8	122.1	147.2	157.2	173.4	117.6
85°	163.3	157.8	181.2	161.1	143.8	89.2	83.6	99.8	105.9	107.6	60.8
87.5°	98.1	98.1	104.8	86.4	77.5	46.3	45.2	56.9	60.8	58.0	33.4
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°	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8	3144.8
2.5°	3153.2	3113.6	3029.4	2962.0	2876.7	2788.0	2738.4	2685.4	2649.2	2623.0	2664.8
5°	3177.1	3096.3	2922.4	2757.4	2575.1	2385.5	2241.7	2107.9	2014.8	1956.8	2011.4
7.5°	3215.1	3090.7	2813.7	2531.6	2204.3	1888.8	1606.7	1430.0	1326.8	1276.1	1307.9
10°	3258.5	3081.8	2686.0	2225.5	1757.2	1359.7	1149.0	1077.6	1054.2	1044.7	1049.2
12.5°	3294.8	3062.9	2529.3	1855.3	1319.6	1073.7	1013.0	1011.3	1016.3	1017.4	1019.1
15°	3320.4	3035.0	2296.9	1469.5	1055.3	978.4	975.1	985.1	994.6	998.5	1000.7
17.5°	3337.7	2977.6	2034.3	1161.8	945.5	932.1	939.9	952.8	962.8	965.6	967.8
20°	3336.0	2893.4	1721.5	968.9	885.9	885.9	899.2	909.3	909.8	906.5	908.2
22.5°	3318.8	2778.0	1418.3	866.3	832.9	842.4	855.8	846.3	807.2	781.6	783.3
25°	3289.8	2640.3	1158.5	801.1	783.8	800.6	796.7	725.3	669.5	644.5	644.5
27.5°	3264.1	2477.5	958.9	744.3	734.8	755.4	686.3	621.6	598.2	586.5	582.6
30°	3245.7	2301.9	825.6	689.6	688.5	673.5	595.4	577.6	573.7	564.2	560.8
32.5°	3250.2	2124.0	740.3	641.7	645.6	576.4	551.9	555.8	552.5	542.4	538.0
35°	3287.0	1955.1	684.6	598.2	586.5	520.7	526.3	533.5	532.4	518.5	514.0
37.5°	3352.8	1795.1	647.8	562.0	511.8	492.8	501.7	512.9	510.1	500.6	497.3
40°	3421.9	1644.6	617.7	533.5	467.7	473.9	481.7	487.8	490.6	493.4	491.2
42.5°	3489.3	1487.4	580.9	504.5	449.3	456.0	459.4	465.5	480.6	491.2	490.6
45°	3529.5	1339.7	543.0	463.3	434.8	438.7	436.5	448.8	467.2	484.5	485.0
47.5°	3574.1	1224.8	512.9	425.4	420.9	423.7	417.0	429.3	446.0	467.2	469.4
50°	3628.2	1156.2	488.9	395.3	402.0	402.0	400.3	411.4	434.8	459.4	463.8
52.5°	3689.5	1142.9	468.9	373.5	383.0	382.4	384.1	400.8	426.5	450.5	454.4
55°	3764.2	1179.1	447.1	357.4	364.6	366.8	372.4	391.4	413.1	440.4	442.1
57.5°	3851.2	1252.7	429.8	344.5	347.9	355.1	364.0	381.3	404.7	434.8	436.5
58°	3865.7	1268.3	427.0	343.4	344.5	352.9	362.9	379.7	403.1	436.0	437.6
60°	3866.2	1320.1	420.9	338.4	331.7	345.6	356.8	373.5	400.3	439.9	443.8
62.5°	3729.1	1319.6	416.4	331.2	318.3	335.6	348.4	367.9	397.5	449.3	457.1
65°	3283.6	1199.2	395.3	320.0	307.7	326.7	341.2	364.0	405.3	490.6	495.6
67.5°	2568.4	982.9	355.7	304.4	293.8	317.8	336.7	363.5	413.7	500.1	503.4
70°	1698.1	735.3	312.2	286.6	279.3	307.2	339.0	382.4	404.2	480.0	471.1
72.5°	881.4	516.2	277.1	264.3	262.6	297.7	371.3	380.2	394.7	451.6	440.4
75°	462.7	358.5	246.4	239.7	242.5	295.5	438.2	370.2	382.4	432.1	453.2
77.5°	283.2	289.3	220.2	217.4	223.0	288.8	437.6	357.4	364.6	397.5	420.9
80°	189.5	234.7	200.1	200.7	204.6	264.3	393.0	337.3	342.9	375.7	399.7
82.5°	119.9	138.8	181.7	191.2	186.2	218.0	333.9	307.2	315.0	429.8	454.4
85°	60.8	87.0	157.8	184.0	167.8	152.8	270.9	269.3	273.2	310.0	323.9
87.5°	27.9	47.9	123.2	160.6	126.6	95.3	196.8	199.6	215.2	220.2	220.2
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)