

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: P300302

Luminaire Tested: **GLNA-AF-02-LED-E1-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300302
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-02-LED-E1-AFL-7030
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12043.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

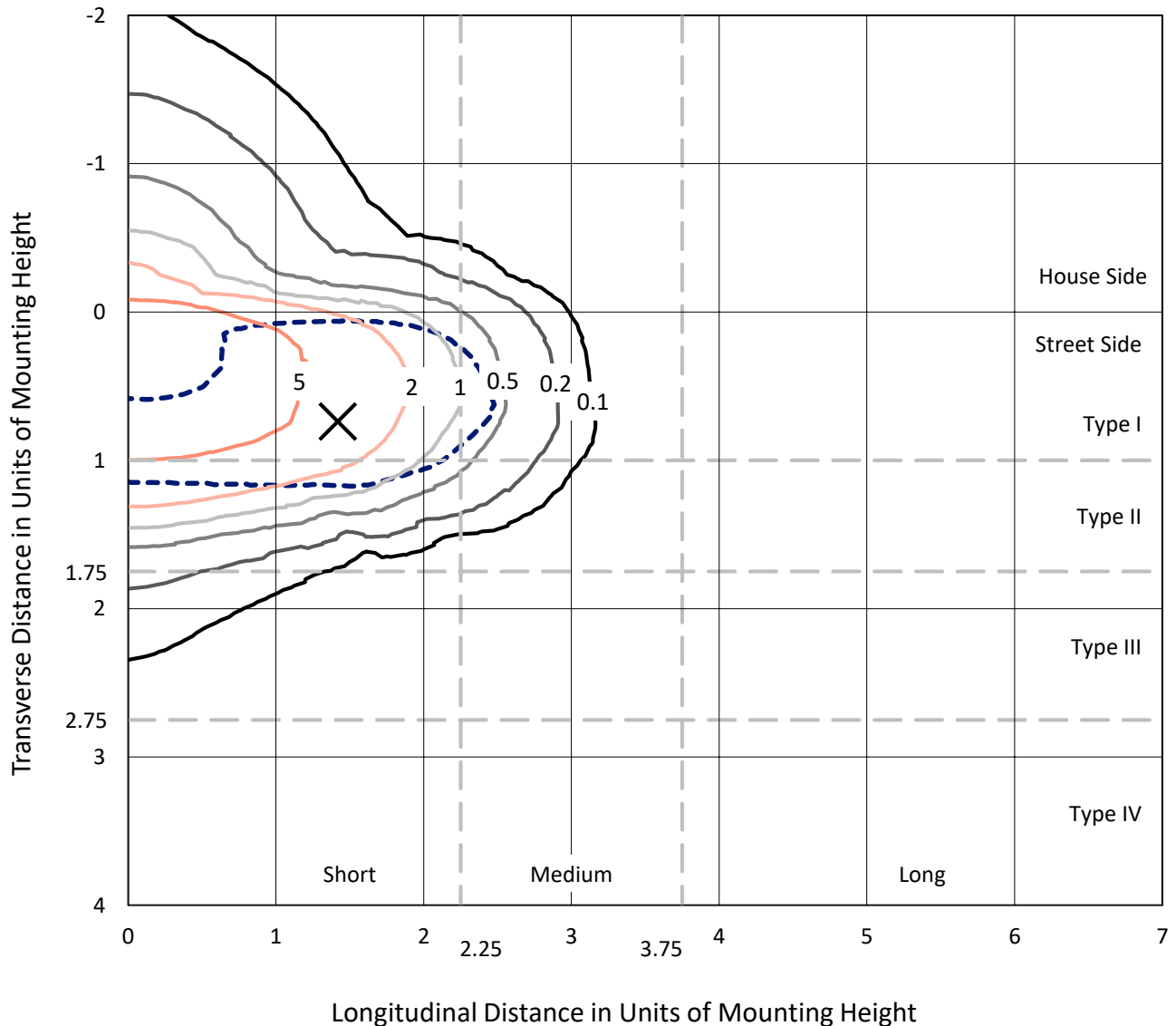
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

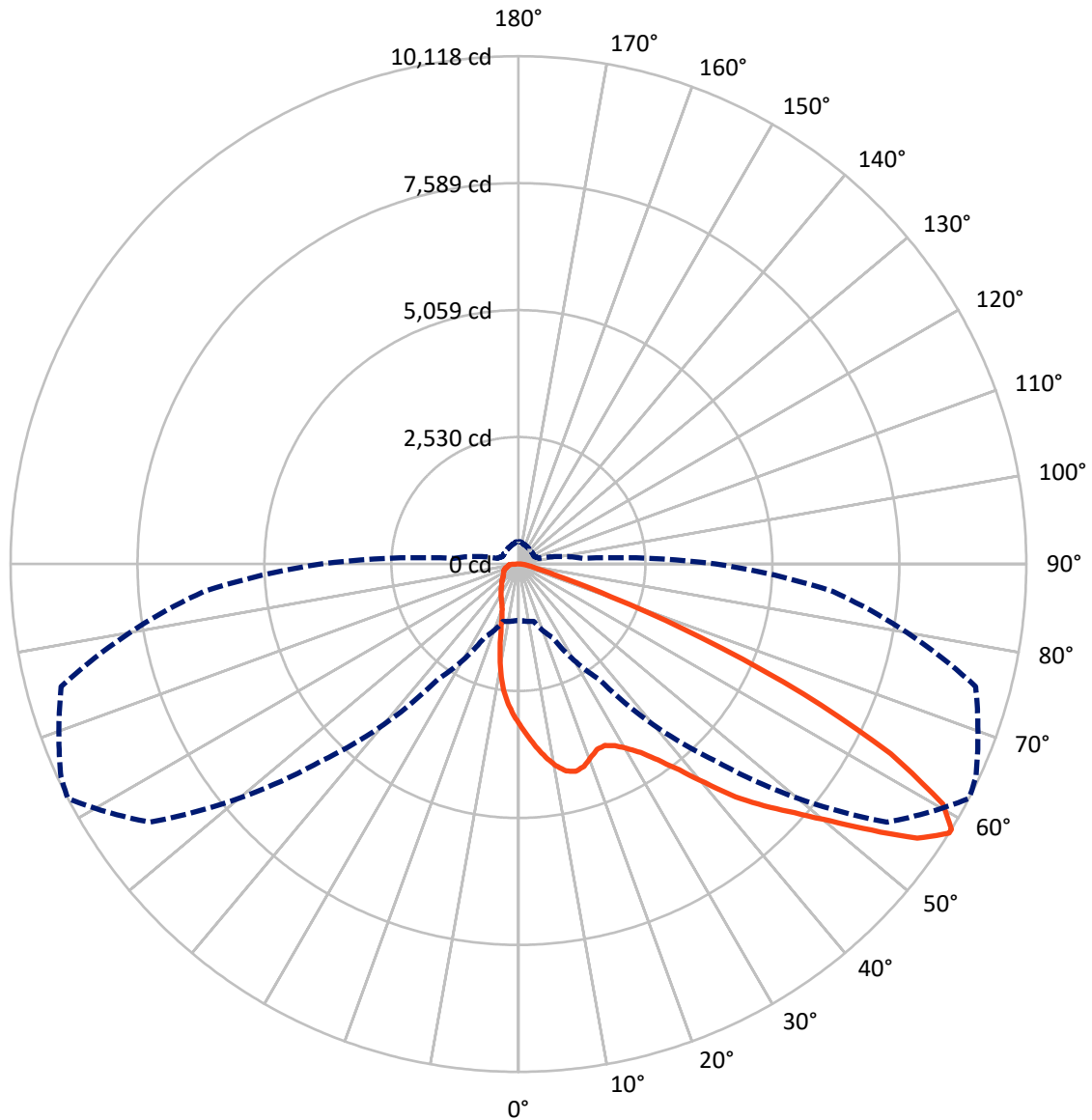
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	1836.7	0.0	1836.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	10207.2	0.0	10207.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	12043.9	0.0	12043.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	2.4
10°-20°	731.4	6.1
20°-30°	1182.3	9.8
30°-40°	1876.9	15.6
40°-50°	2746.3	22.8
50°-60°	2872.4	23.8
60°-70°	1697.0	14.1
70°-80°	478.1	4.0
80°-90°	173.6	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°	12043.9	100.0
0°-180°	12043.9	100.0



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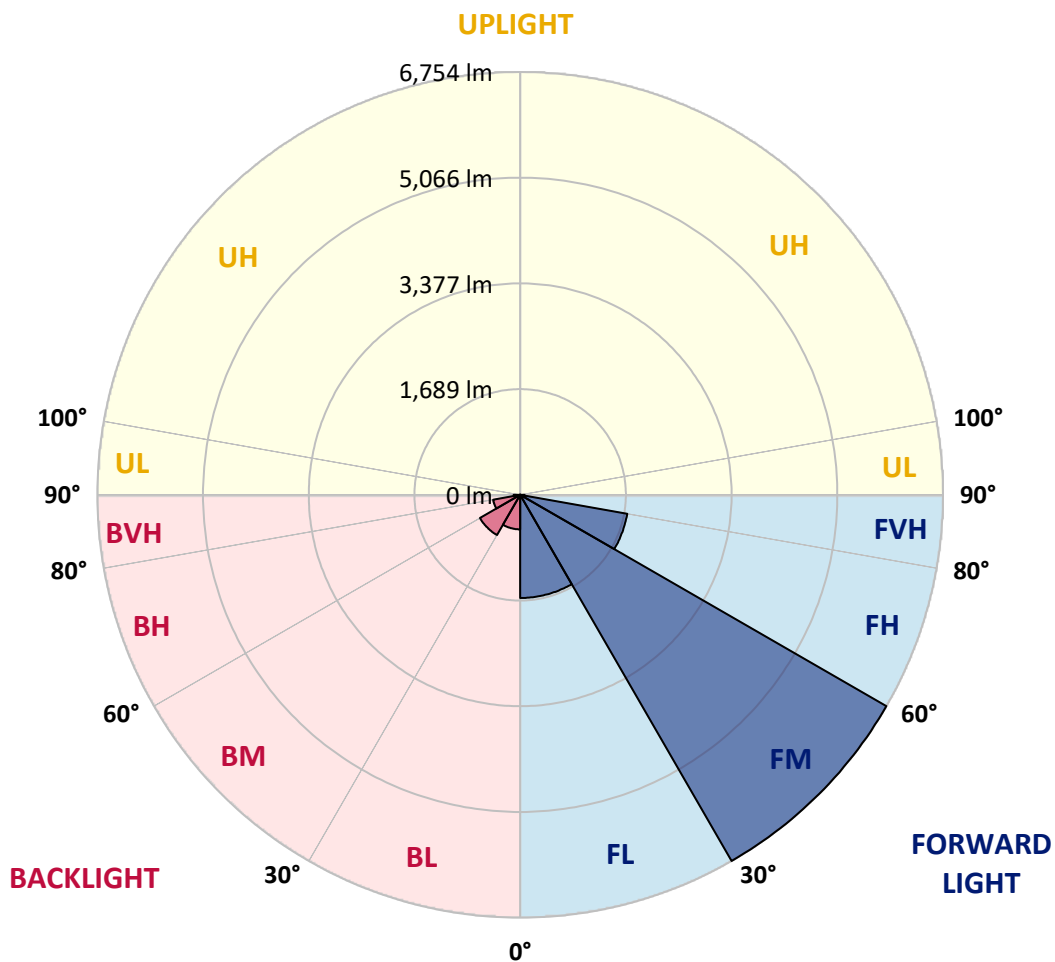
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1647.8	13.7			
FM	(30°-60°)	6754.2	56.1			
FH	(60°-80°)	1736.8	14.4			G1/1800
FVH	(80°-90°)	68.5	0.6			G1/100
BL	(0°-30°)	552.0	4.6	B2/1000		
BM	(30°-60°)	741.4	6.2	B1/1000		
BH	(60°-80°)	438.3	3.6	B1/500		G1/500
BVH	(80°-90°)	105.1	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°	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2
2.5°	3655.8	3626.3	3607.6	3591.1	3569.6	3523.6	3461.8	3422.7	3402.8	3335.3	3255.4
5°	4014.2	3988.1	3968.8	3946.7	3908.1	3836.1	3736.3	3656.9	3617.8	3482.8	3322.9
7.5°	3930.3	3941.0	3974.5	4032.9	4082.8	4073.2	3984.1	3883.2	3831.6	3643.9	3401.1
10°	3424.4	3443.1	3500.9	3637.6	3858.8	4085.7	4154.9	4085.1	4032.9	3803.2	3481.7
12.5°	3322.9	3322.3	3326.8	3363.1	3494.7	3814.0	4160.5	4230.9	4199.7	3955.2	3563.9
15°	3364.3	3365.4	3362.0	3377.3	3418.1	3544.6	3987.0	4287.0	4309.1	4108.3	3649.0
17.5°	3473.2	3470.3	3457.3	3457.3	3472.0	3521.4	3782.8	4234.8	4336.9	4243.9	3723.8
20°	3655.8	3642.7	3608.1	3576.4	3560.5	3587.1	3698.9	4114.6	4288.7	4362.4	3785.6
22.5°	3877.0	3866.7	3810.6	3742.5	3687.5	3687.0	3742.0	4009.7	4205.3	4474.2	3837.8
25°	4162.8	4146.3	4063.0	3954.1	3857.7	3820.8	3836.1	4004.6	4160.0	4595.5	3884.3
27.5°	4498.5	4468.5	4369.8	4212.7	4070.9	3996.6	3974.5	4097.0	4201.4	4745.8	3949.0
30°	4905.7	4871.1	4744.7	4539.9	4339.7	4217.8	4170.7	4260.9	4338.6	4929.0	4052.8
32.5°	5369.1	5319.2	5172.9	4947.1	4684.0	4498.0	4421.4	4477.6	4539.4	5149.6	4182.6
35°	6009.4	5949.8	5738.3	5426.9	5129.8	4874.0	4751.5	4792.3	4852.4	5478.6	4370.4
37.5°	6446.1	6419.4	6278.8	5986.1	5662.9	5368.5	5179.1	5202.9	5237.0	5889.7	4610.8
40°	6442.1	6452.9	6455.7	6458.6	6238.5	5956.7	5753.0	5728.1	5721.3	6341.2	4884.2
42.5°	6119.4	6163.7	6306.6	6596.4	6730.2	6600.9	6414.3	6342.3	6306.6	6873.1	5174.0
45°	5625.4	5649.3	5917.0	6483.0	6982.0	7239.0	7097.7	6870.9	6806.2	7362.0	5414.5
47.5°	5370.8	5396.9	5565.3	6182.4	6979.2	7754.5	7836.1	7404.0	7288.3	7787.4	5622.0
50°	4764.5	4819.0	5031.1	5659.5	6724.6	7991.5	8608.0	8039.2	7799.9	8201.4	5830.2
52.5°	3651.2	3735.2	3972.8	4799.7	6078.6	7874.1	9225.6	8809.4	8471.3	8630.1	6008.8
55°	2303.1	2365.5	2565.2	3389.8	4862.6	7263.3	9459.9	9642.5	9341.9	9036.2	6163.7
57.5°	1252.2	1280.0	1354.9	1871.6	3162.9	5913.0	9118.4	10116.6	9991.8	9381.0	6280.5
58°	1120.7	1139.4	1185.9	1622.0	2805.1	5543.8	8967.0	10118.3	10055.9	9431.5	6289.6
60°	831.4	821.8	780.4	925.6	1561.3	3829.9	8051.7	9713.4	9896.6	9493.3	6245.3
62.5°	730.5	707.2	622.7	613.1	759.4	1764.4	6160.8	8320.5	8753.2	9140.6	5976.5
65°	686.2	661.3	552.4	517.2	547.9	746.4	3629.1	6240.2	6783.0	8070.9	5289.1
67.5°	653.3	621.0	507.6	459.4	461.7	493.4	1454.7	3930.3	4541.1	6127.9	4114.0
70°	621.6	586.4	469.6	414.0	401.0	390.2	578.5	1967.4	2521.5	3870.7	2623.0
72.5°	587.6	553.0	436.1	378.3	352.8	317.0	377.7	804.8	1124.1	1831.3	1189.9
75°	538.2	507.0	402.7	346.5	310.2	262.6	285.3	420.2	504.2	729.3	573.4
77.5°	477.5	452.0	365.2	320.4	275.1	213.2	219.5	291.5	323.3	417.4	340.8
80°	343.1	352.2	325.0	288.1	245.0	173.0	168.4	212.7	229.7	268.3	221.8
82.5°	241.0	246.1	268.8	235.4	202.5	136.1	124.2	149.7	159.9	176.4	119.7
85°	166.2	160.5	184.3	163.9	146.3	90.7	85.1	101.5	107.8	109.5	61.8
87.5°	99.8	99.8	106.6	87.9	78.8	47.1	45.9	57.8	61.8	59.0	34.0
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°	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2	3199.2
2.5°	3207.7	3167.5	3081.8	3013.2	2926.4	2836.3	2785.8	2731.9	2695.0	2668.4	2710.9
5°	3232.1	3149.9	2972.9	2805.1	2619.6	2426.8	2280.5	2144.3	2049.6	1990.7	2046.2
7.5°	3270.7	3144.2	2862.3	2575.4	2242.5	1921.5	1634.5	1454.7	1349.8	1298.2	1330.5
10°	3314.9	3135.1	2732.5	2264.0	1787.6	1383.2	1168.9	1096.3	1072.5	1062.8	1067.4
12.5°	3351.8	3115.9	2573.1	1887.4	1342.4	1092.3	1030.5	1028.8	1033.9	1035.0	1036.7
15°	3377.9	3087.5	2336.6	1495.0	1073.6	995.3	991.9	1002.1	1011.8	1015.7	1018.0
17.5°	3395.5	3029.1	2069.5	1181.9	961.9	948.3	956.2	969.2	979.4	982.3	984.6
20°	3393.8	2943.4	1751.3	985.7	901.2	901.2	914.8	925.0	925.6	922.2	923.9
22.5°	3376.2	2826.0	1442.8	881.3	847.3	856.9	870.6	860.9	821.2	795.1	796.8
25°	3346.7	2686.0	1178.5	815.0	797.4	814.4	810.4	737.8	681.1	655.6	655.6
27.5°	3320.6	2520.4	975.5	757.1	747.5	768.5	698.1	632.4	608.5	596.6	592.7
30°	3301.9	2341.7	839.9	701.5	700.4	685.1	605.7	587.6	583.6	573.9	570.5
32.5°	3306.4	2160.8	753.2	652.8	656.7	586.4	561.5	565.4	562.0	551.8	547.3
35°	3343.8	1989.0	696.4	608.5	596.6	529.7	535.4	542.8	541.6	527.4	522.9
37.5°	3410.8	1826.2	659.0	571.7	520.6	501.4	510.4	521.8	518.9	509.3	505.9
40°	3481.1	1673.1	628.4	542.8	475.8	482.1	490.0	496.2	499.1	501.9	499.6
42.5°	3549.7	1513.1	591.0	513.3	457.1	463.9	467.3	473.6	488.9	499.6	499.1
45°	3590.6	1362.8	552.4	471.3	442.4	446.3	444.1	456.5	475.3	492.8	493.4
47.5°	3635.9	1246.0	521.8	432.7	428.2	431.0	424.2	436.7	453.7	475.3	477.5
50°	3690.9	1176.2	497.4	402.1	408.9	408.9	407.2	418.5	442.4	467.3	471.9
52.5°	3753.3	1162.6	477.0	380.0	389.6	389.1	390.8	407.8	433.9	458.2	462.2
55°	3829.3	1199.5	454.8	363.5	370.9	373.2	378.8	398.1	420.2	448.0	449.7
57.5°	3917.8	1274.4	437.3	350.5	353.9	361.3	370.3	387.9	411.7	442.4	444.1
58°	3932.5	1290.2	434.4	349.4	350.5	359.0	369.2	386.2	410.0	443.5	445.2
60°	3933.1	1343.0	428.2	344.3	337.4	351.6	363.0	380.0	407.2	447.5	451.4
62.5°	3793.6	1342.4	423.7	336.9	323.8	341.4	354.5	374.3	404.4	457.1	465.1
65°	3340.4	1219.9	402.1	325.5	313.1	332.3	347.1	370.3	412.3	499.1	504.2
67.5°	2612.8	999.9	361.8	309.7	298.9	323.3	342.6	369.8	420.8	508.7	512.1
70°	1727.5	748.1	317.6	291.5	284.1	312.5	344.8	389.1	411.2	488.3	479.2
72.5°	896.6	525.2	281.9	268.8	267.1	302.9	377.7	386.8	401.5	459.4	448.0
75°	470.7	364.7	250.7	243.9	246.7	300.6	445.8	376.6	389.1	439.5	461.1
77.5°	288.1	294.3	224.0	221.2	226.9	293.8	445.2	363.5	370.9	404.4	428.2
80°	192.8	238.8	203.6	204.2	208.1	268.8	399.8	343.1	348.8	382.3	406.6
82.5°	121.9	141.2	184.9	194.5	189.4	221.8	339.7	312.5	320.4	437.3	462.2
85°	61.8	88.5	160.5	187.2	170.7	155.4	275.6	273.9	277.9	315.3	329.5
87.5°	28.4	48.8	125.3	163.3	128.7	97.0	200.2	203.0	218.9	224.0	224.0
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)