

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: P300368

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300368
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-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14519 lumens
Efficiency: N/A
Efficacy: 117.1 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

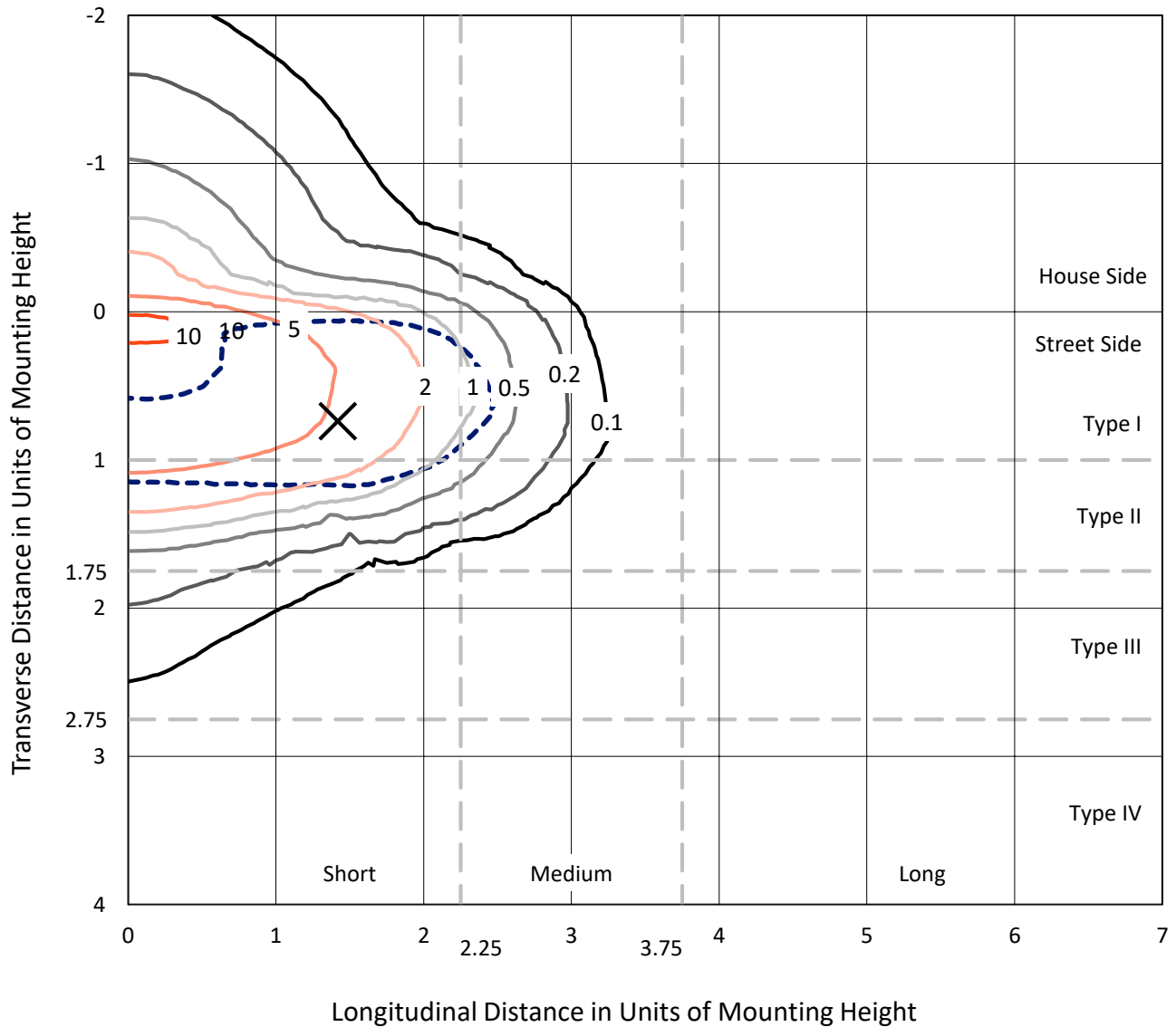
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

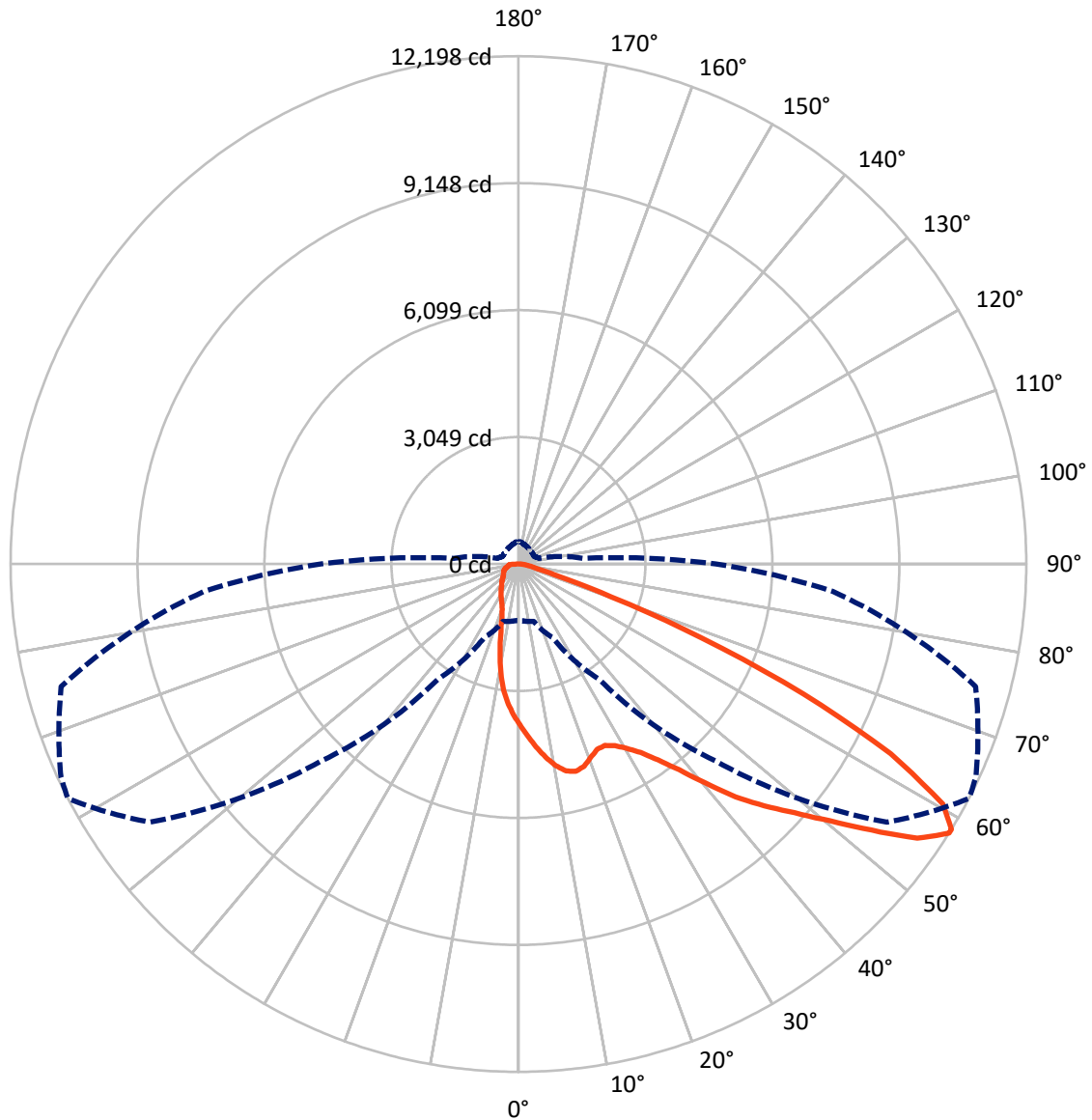
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.8 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	2214.2	0.0	2214.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	12304.8	0.0	12304.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	14519.0	0.0	14519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	2.4
10°-20°	881.7	6.1
20°-30°	1425.3	9.8
30°-40°	2262.6	15.6
40°-50°	3310.6	22.8
50°-60°	3462.6	23.8
60°-70°	2045.7	14.1
70°-80°	576.3	4.0
80°-90°	209.2	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°	14519.0	100.0
0°-180°	14519.0	100.0

Coefficient of Utilization



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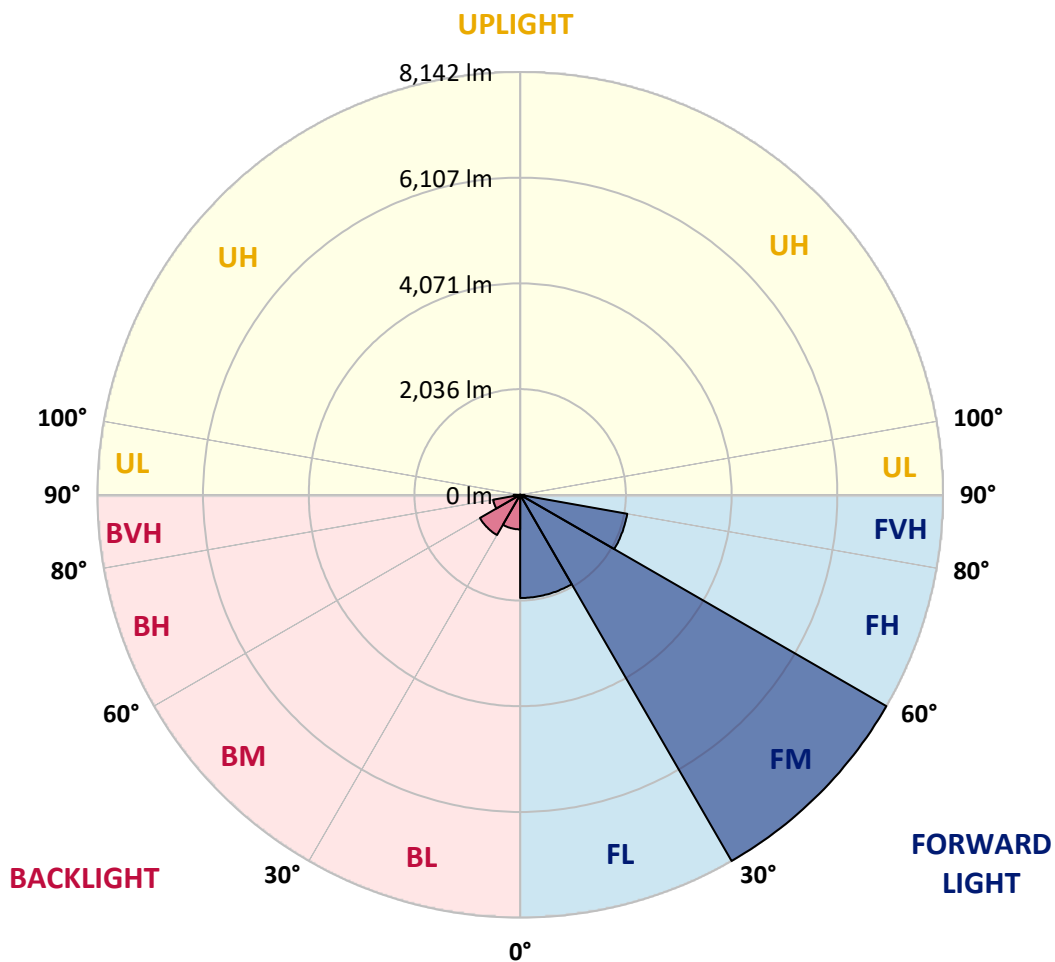
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.4	13.7			
FM (30°-60°)	8142.2	56.1			
FH (60°-80°)	2093.7	14.4			G2/5000
FVH (80°-90°)	82.5	0.6			G1/100
BL (0°-30°)	665.5	4.6	B2/1000		
BM (30°-60°)	893.7	6.2	B1/1000		
BH (60°-80°)	528.3	3.6	B2/1000		G2/1000
BVH (80°-90°)	126.7	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°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	4407.0	4371.5	4348.9	4329.1	4303.1	4247.7	4173.2	4126.0	4102.1	4020.8	3924.4
5°	4839.1	4807.7	4784.4	4757.8	4711.3	4624.4	4504.1	4408.4	4361.2	4198.5	4005.7
7.5°	4737.9	4750.9	4791.3	4861.7	4921.9	4910.2	4802.9	4681.2	4619.0	4392.7	4100.1
10°	4128.1	4150.7	4220.4	4385.2	4651.8	4925.3	5008.7	4924.6	4861.7	4584.8	4197.1
12.5°	4005.7	4005.0	4010.5	4054.3	4212.9	4597.8	5015.5	5100.3	5062.7	4768.0	4296.3
15°	4055.6	4057.0	4052.9	4071.3	4120.6	4273.0	4806.3	5168.0	5194.6	4952.6	4398.8
17.5°	4186.9	4183.5	4167.7	4167.7	4185.5	4245.0	4560.2	5105.1	5228.1	5116.0	4489.1
20°	4407.0	4391.3	4349.6	4311.3	4292.2	4324.3	4459.0	4960.1	5170.0	5258.9	4563.6
22.5°	4673.7	4661.4	4593.7	4511.6	4445.3	4444.6	4511.0	4833.7	5069.5	5393.6	4626.5
25°	5018.3	4998.4	4897.9	4766.7	4650.4	4606.0	4624.4	4827.5	5014.8	5539.9	4682.6
27.5°	5423.0	5386.8	5267.8	5078.4	4907.5	4817.9	4791.3	4938.9	5064.7	5721.1	4760.5
30°	5913.9	5872.2	5719.7	5472.9	5231.6	5084.6	5027.8	5136.5	5230.2	5941.9	4885.6
32.5°	6472.5	6412.3	6235.9	5963.8	5646.6	5422.3	5330.0	5397.7	5472.2	6207.9	5042.2
35°	7244.3	7172.5	6917.5	6542.2	6183.9	5875.6	5727.9	5777.1	5849.6	6604.4	5268.5
37.5°	7770.8	7738.6	7569.1	7216.3	6826.6	6471.8	6243.4	6272.1	6313.2	7100.1	5558.4
40°	7766.0	7779.0	7782.4	7785.8	7520.5	7180.7	6935.3	6905.2	6897.0	7644.3	5887.9
42.5°	7377.0	7430.3	7602.6	7951.9	8113.3	7957.4	7732.5	7645.7	7602.6	8285.6	6237.3
45°	6781.5	6810.2	7132.9	7815.2	8416.9	8726.6	8556.3	8282.8	8204.9	8874.9	6527.1
47.5°	6474.5	6506.0	6709.0	7452.9	8413.4	9348.0	9446.5	8925.5	8786.0	9387.7	6777.4
50°	5743.6	5809.3	6065.0	6822.5	8106.5	9633.8	10377.0	9691.2	9402.7	9886.8	7028.3
52.5°	4401.6	4502.8	4789.2	5786.0	7327.7	9492.3	11121.5	10619.7	10212.2	10403.6	7243.6
55°	2776.4	2851.7	3092.3	4086.4	5861.9	8756.0	11403.9	11624.0	11261.7	10893.2	7430.3
57.5°	1509.6	1543.1	1633.3	2256.2	3812.9	7128.1	10992.3	12195.6	12045.2	11308.8	7571.1
58°	1351.0	1373.5	1429.6	1955.3	3381.5	6683.0	10809.8	12197.6	12122.4	11369.7	7582.1
60°	1002.3	990.7	940.8	1115.8	1882.2	4616.9	9706.3	11709.5	11930.3	11444.2	7528.7
62.5°	880.6	852.6	750.7	739.1	915.5	2126.9	7426.9	10030.3	10552.0	11019.0	7204.7
65°	827.3	797.2	665.9	623.5	660.4	899.7	4374.9	7522.6	8176.9	9729.5	6376.1
67.5°	787.6	748.6	611.9	553.8	556.5	594.8	1753.7	4737.9	5474.3	7387.2	4959.5
70°	749.3	706.9	566.1	499.1	483.4	470.4	697.4	2371.7	3039.7	4666.2	3162.0
72.5°	708.3	666.6	525.8	456.0	425.3	382.2	455.3	970.1	1355.1	2207.6	1434.4
75°	648.8	611.2	485.4	417.7	374.0	316.5	343.9	506.6	607.8	879.2	691.2
77.5°	575.7	544.9	440.3	386.3	331.6	257.1	264.6	351.4	389.7	503.2	410.9
80°	413.6	424.6	391.8	347.3	295.4	208.5	203.1	256.4	276.9	323.4	267.3
82.5°	290.6	296.7	324.1	283.7	244.1	164.1	149.7	180.5	192.8	212.6	144.3
85°	200.3	193.5	222.2	197.6	176.4	109.4	102.6	122.4	129.9	132.0	74.5
87.5°	120.3	120.3	128.5	106.0	95.0	56.7	55.4	69.7	74.5	71.1	41.0
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°	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7	3856.7
2.5°	3866.9	3818.4	3715.1	3632.4	3527.8	3419.1	3358.3	3293.3	3248.9	3216.7	3268.0
5°	3896.3	3797.2	3583.9	3381.5	3157.9	2925.5	2749.1	2585.0	2470.8	2399.7	2466.7
7.5°	3942.8	3790.4	3450.6	3104.6	2703.3	2316.3	1970.4	1753.7	1627.2	1565.0	1603.9
10°	3996.1	3779.4	3294.0	2729.3	2155.0	1667.5	1409.1	1321.6	1292.8	1281.2	1286.7
12.5°	4040.6	3756.2	3101.9	2275.3	1618.3	1316.8	1242.3	1240.2	1246.4	1247.7	1249.8
15°	4072.0	3722.0	2816.8	1802.2	1294.2	1199.9	1195.8	1208.1	1219.7	1224.5	1227.2
17.5°	4093.2	3651.6	2494.8	1424.8	1159.5	1143.1	1152.7	1168.4	1180.7	1184.1	1186.9
20°	4091.2	3548.3	2111.2	1188.2	1086.4	1086.4	1102.8	1115.1	1115.8	1111.7	1113.7
22.5°	4070.0	3406.8	1739.3	1062.4	1021.4	1033.0	1049.5	1037.8	990.0	958.5	960.6
25°	4034.4	3237.9	1420.7	982.5	961.3	981.8	977.0	889.5	821.1	790.3	790.3
27.5°	4003.0	3038.3	1175.9	912.7	901.1	926.4	841.6	762.3	733.6	719.2	714.5
30°	3980.4	2822.9	1012.5	845.7	844.4	825.9	730.2	708.3	703.5	691.9	687.8
32.5°	3985.9	2604.8	907.9	786.9	791.7	706.9	676.8	681.6	677.5	665.2	659.8
35°	4031.0	2397.7	839.6	733.6	719.2	638.6	645.4	654.3	652.9	635.8	630.4
37.5°	4111.7	2201.5	794.4	689.2	627.6	604.4	615.3	629.0	625.6	613.9	609.8
40°	4196.5	2016.9	757.5	654.3	573.6	581.1	590.7	598.2	601.6	605.1	602.3
42.5°	4279.2	1824.1	712.4	618.7	551.1	559.3	563.4	570.9	589.3	602.3	601.6
45°	4328.4	1642.9	665.9	568.1	533.3	538.1	535.3	550.4	572.9	594.1	594.8
47.5°	4383.1	1502.1	629.0	521.7	516.2	519.6	511.4	526.4	546.9	572.9	575.7
50°	4449.4	1418.0	599.6	484.7	492.9	492.9	490.9	504.6	533.3	563.4	568.8
52.5°	4524.6	1401.6	575.0	458.1	469.7	469.0	471.1	491.6	523.0	552.4	557.2
55°	4616.2	1446.0	548.3	438.2	447.1	449.9	456.7	479.9	506.6	540.1	542.2
57.5°	4722.9	1536.2	527.1	422.5	426.6	435.5	446.4	467.6	496.4	533.3	535.3
58°	4740.7	1555.4	523.7	421.2	422.5	432.8	445.1	465.6	494.3	534.6	536.7
60°	4741.4	1619.0	516.2	415.0	406.8	423.9	437.6	458.1	490.9	539.4	544.2
62.5°	4573.2	1618.3	510.7	406.1	390.4	411.6	427.3	451.2	487.5	551.1	560.6
65°	4026.9	1470.6	484.7	392.4	377.4	400.6	418.4	446.4	497.0	601.6	607.8
67.5°	3149.7	1205.3	436.2	373.3	360.3	389.7	412.9	445.8	507.3	613.3	617.4
70°	2082.5	901.8	382.9	351.4	342.5	376.7	415.7	469.0	495.7	588.7	577.7
72.5°	1080.9	633.1	339.8	324.1	322.0	365.1	455.3	466.3	484.0	553.8	540.1
75°	567.5	439.6	302.2	294.0	297.4	362.4	537.4	454.0	469.0	529.9	555.8
77.5°	347.3	354.8	270.1	266.6	273.5	354.1	536.7	438.2	447.1	487.5	516.2
80°	232.5	287.8	245.4	246.1	250.9	324.1	482.0	413.6	420.5	460.8	490.2
82.5°	147.0	170.2	222.9	234.5	228.4	267.3	409.5	376.7	386.3	527.1	557.2
85°	74.5	106.7	193.5	225.6	205.8	187.3	332.3	330.2	335.0	380.1	397.2
87.5°	34.2	58.8	151.1	196.9	155.2	116.9	241.3	244.8	263.9	270.1	270.1
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)