

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: P528175

Luminaire Tested: **GALN-SA3B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11540 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

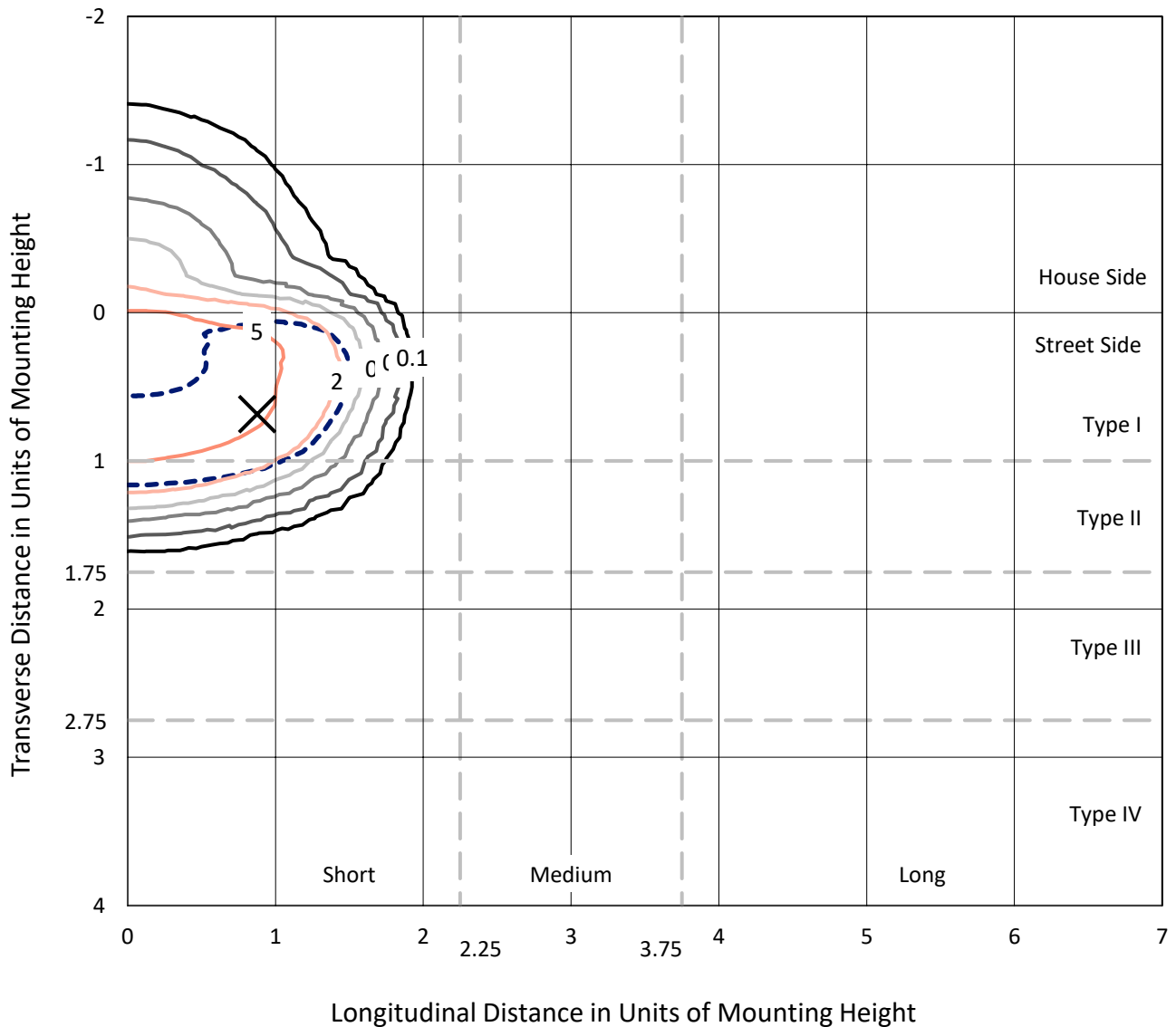
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528175
 CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

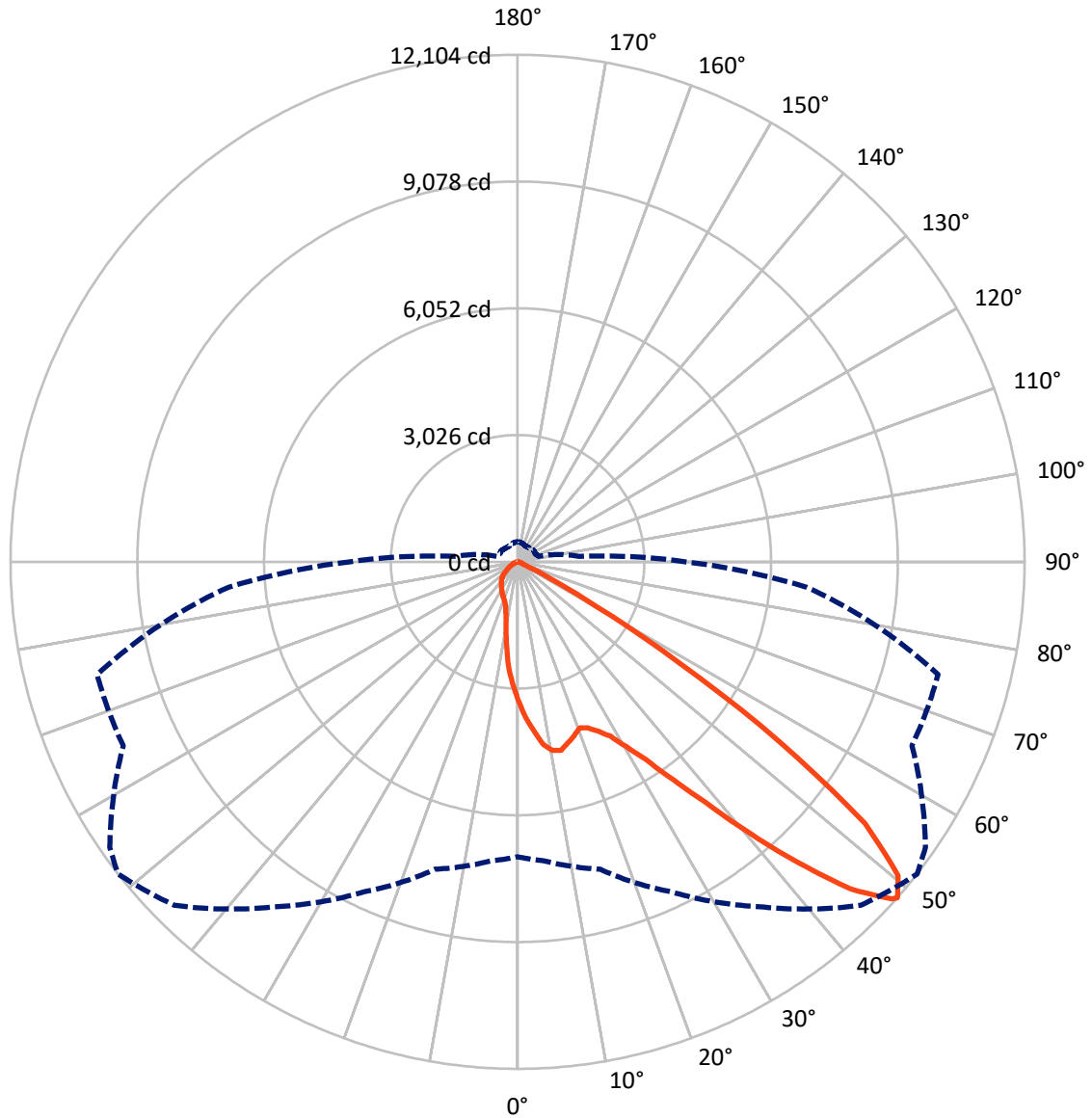
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

REPORT NUMBER: P528175
CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P528175
 CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.1	0.0	1405.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10134.9	0.0	10134.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	11540.0	0.0	11540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.0	2.6
10°-20°	797.1	6.9
20°-30°	1361.0	11.8
30°-40°	2506.4	21.7
40°-50°	3892.4	33.7
50°-60°	2342.6	20.3
60°-70°	270.9	2.3
70°-80°	52.4	0.5
80°-90°	12.1	0.1
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°	11540.0	100.0
0°-180°	11540.0	100.0

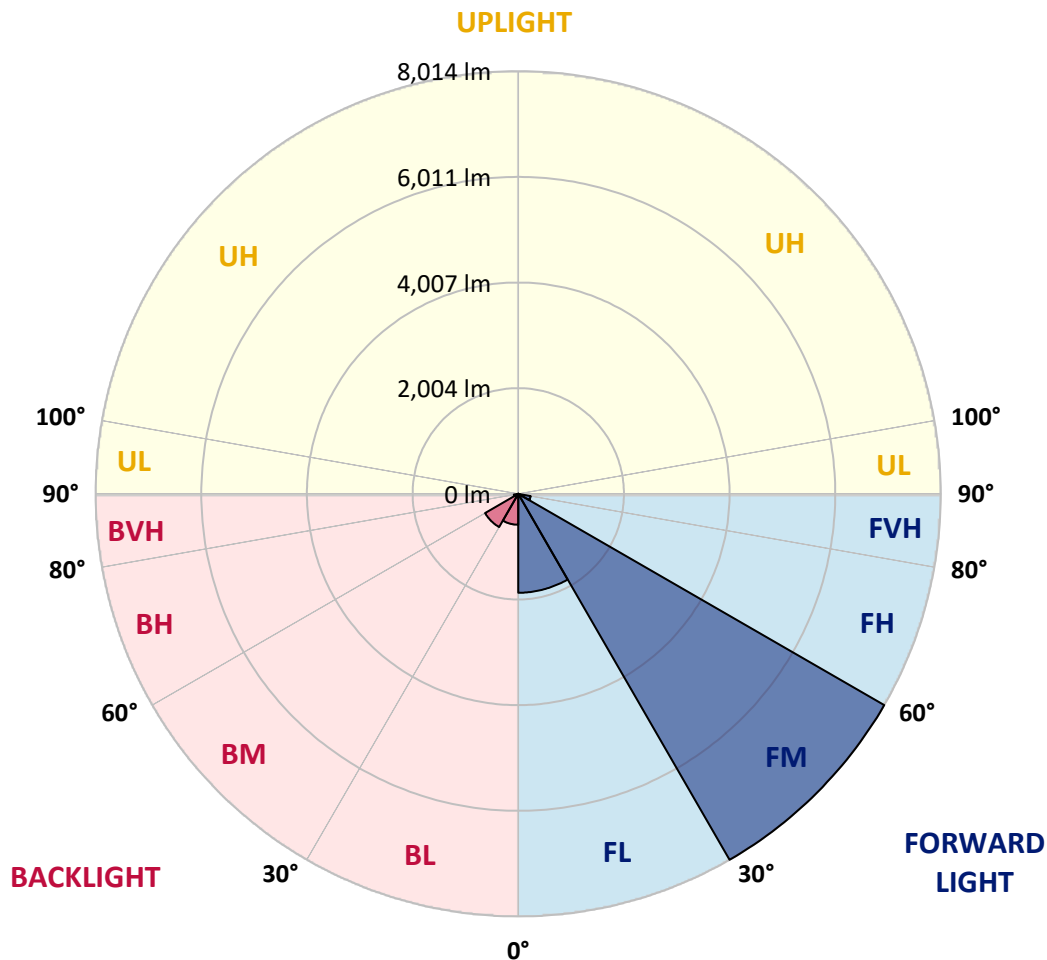


REPORT NUMBER: P528175
 CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1876.3	16.3			
FM (30°-60°)	8014.3	69.4			
FH (60°-80°)	238.6	2.1			G0/660
FVH (80°-90°)	5.8	0.0			G0/10
BL (0°-30°)	587.0	5.1	B2/1000		
BM (30°-60°)	727.0	6.3	B1/1000		
BH (60°-80°)	84.8	0.7	B0/110		G0/110
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





REPORT NUMBER: P528175

CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6
2.5°	4039.1	3946.6	3955.0	3894.4	3859.1	3801.9	3724.5	3709.4	3625.3	3510.9	3394.8
5°	4402.5	4380.6	4409.2	4321.7	4325.1	4230.9	4049.2	4052.6	3859.1	3672.4	3492.4
7.5°	4426.0	4375.6	4404.2	4481.5	4527.0	4510.1	4407.5	4318.4	4135.0	3860.8	3598.4
10°	3963.4	4059.3	4089.6	4217.4	4399.1	4590.9	4579.1	4584.2	4431.1	4072.8	3689.2
12.5°	3685.8	3621.9	3724.5	3801.9	4076.1	4447.9	4617.8	4654.8	4666.6	4278.0	3780.0
15°	3559.7	3559.7	3576.5	3598.4	3796.9	4140.0	4486.6	4594.3	4848.3	4547.2	3923.0
17.5°	3638.7	3635.4	3658.9	3613.5	3687.5	3951.6	4365.5	4488.3	5051.8	4811.3	4035.7
20°	3879.3	3891.1	3875.9	3744.7	3749.8	3948.3	4230.9	4424.3	5189.8	5040.1	4185.5
22.5°	4214.1	4220.8	4135.0	3992.0	3950.0	4047.5	4308.3	4456.3	5300.8	5314.3	4230.9
25°	4601.0	4574.1	4557.2	4355.4	4227.5	4311.6	4483.2	4569.0	5369.8	5549.8	4360.4
27.5°	5137.6	5083.8	4981.2	4801.2	4707.0	4587.5	4710.3	4851.6	5566.6	5879.5	4501.7
30°	5930.0	5882.9	5682.7	5450.5	5203.2	5085.5	5124.2	5201.6	5921.6	6261.4	4688.5
32.5°	7122.7	7023.4	6734.1	6291.7	5955.2	5630.5	5620.4	5702.9	6239.5	6789.6	4910.5
35°	8436.5	8406.3	7980.6	7524.8	6873.7	6372.4	6380.8	6424.6	6848.5	7482.7	5201.6
37.5°	9309.6	9476.2	9205.3	8715.8	8169.1	7452.4	7270.7	7285.9	7684.6	8303.6	5726.4
40°	9984.2	9842.9	9874.9	9760.5	9387.0	8899.2	8497.1	8418.0	8651.9	9212.1	6247.9
42.5°	9689.8	9696.6	9893.4	10164.2	10256.7	10221.4	9810.9	9661.2	9479.5	9955.6	6744.2
45°	8858.8	9032.1	9287.8	10004.4	10633.6	11224.0	11143.3	10894.3	10051.5	10544.4	7030.2
47.5°	7533.2	7526.4	7945.3	8877.3	10275.3	11658.1	12024.8	11849.9	10456.9	10478.8	6971.3
48°	7043.6	7164.8	7597.1	8693.9	10048.1	11594.1	12103.9	11883.5	10388.0	10391.3	6920.8
50°	5206.6	5184.7	5723.1	7068.9	8974.9	10894.3	11770.8	11942.4	10386.3	9948.9	6567.5
52.5°	2750.5	2844.7	3236.7	4444.5	6345.5	8916.0	10382.9	10650.4	10019.6	9225.5	6059.5
55°	1169.2	1056.5	1357.6	2006.9	3569.8	5956.9	7617.3	8212.8	8471.9	8164.0	5300.8
57.5°	417.2	455.9	524.9	755.3	1500.6	3260.2	4542.1	5004.7	5869.4	5990.5	3611.8
60°	267.5	272.5	294.4	346.5	563.6	1256.6	2155.0	2523.4	2915.4	3009.6	1685.6
62.5°	206.9	208.6	218.7	227.1	267.5	487.9	809.2	958.9	995.9	856.3	442.4
65°	173.3	175.0	178.3	178.3	190.1	228.8	282.6	311.2	302.8	299.4	250.7
67.5°	132.9	136.3	143.0	143.0	149.7	139.6	156.5	166.5	188.4	228.8	213.6
70°	104.3	106.0	111.0	114.4	114.4	100.9	112.7	122.8	137.9	169.9	168.2
72.5°	80.7	84.1	87.5	87.5	82.4	69.0	80.7	89.2	99.3	117.8	114.4
75°	62.2	62.2	63.9	52.2	40.4	35.3	48.8	58.9	74.0	77.4	63.9
77.5°	16.8	18.5	16.8	15.1	16.8	25.2	32.0	37.0	47.1	47.1	42.1
80°	0.0	1.7	5.0	10.1	16.8	23.6	28.6	32.0	37.0	40.4	38.7
82.5°	0.0	1.7	5.0	10.1	15.1	18.5	25.2	26.9	30.3	35.3	35.3
85°	0.0	1.7	3.4	6.7	10.1	11.8	11.8	10.1	10.1	8.4	6.7
87.5°	0.0	0.0	1.7	3.4	3.4	5.0	5.0	5.0	5.0	5.0	5.0
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: P528175

CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6	3332.6
2.5°	3349.4	3297.2	3218.2	3093.7	2974.2	2896.9	2822.8	2740.4	2695.0	2691.6	2666.4
5°	3389.8	3272.0	3083.6	2869.9	2641.2	2444.3	2245.8	2116.3	2000.2	1936.3	1924.5
7.5°	3411.6	3258.5	2954.1	2595.7	2205.4	1884.1	1662.1	1498.9	1435.0	1387.9	1386.2
10°	3457.0	3235.0	2760.6	2232.4	1749.6	1424.9	1271.8	1197.8	1162.4	1149.0	1128.8
12.5°	3490.7	3191.3	2562.1	1858.9	1382.8	1180.9	1113.7	1096.8	1098.5	1105.2	1096.8
15°	3537.8	3152.6	2294.6	1525.8	1160.8	1063.2	1063.2	1066.6	1090.1	1093.5	1091.8
17.5°	3534.4	3076.9	2018.7	1256.6	1026.2	1012.7	1017.8	1049.7	1064.9	1069.9	1058.1
20°	3574.8	3006.2	1734.4	1073.3	950.5	970.7	1004.3	1012.7	1031.2	1034.6	1021.1
22.5°	3563.0	2829.6	1470.3	928.6	893.3	932.0	965.6	975.7	970.7	960.6	958.9
25°	3541.2	2678.2	1228.1	832.7	851.2	893.3	925.2	906.7	896.6	898.3	900.0
27.5°	3502.5	2486.4	1027.9	765.4	794.0	856.3	854.6	847.9	858.0	849.5	858.0
30°	3495.7	2294.6	863.0	704.9	752.0	797.4	800.8	812.5	824.3	809.2	824.3
32.5°	3505.8	2084.3	745.2	667.9	726.7	728.4	765.4	777.2	768.8	735.1	738.5
35°	3583.2	1922.8	659.4	647.7	686.4	688.0	723.4	708.2	671.2	651.0	662.8
37.5°	3746.4	1788.2	619.1	629.2	632.5	654.4	656.1	625.8	629.2	627.5	634.2
40°	3955.0	1685.6	590.5	612.3	609.0	624.1	563.6	580.4	595.5	600.6	603.9
42.5°	4098.0	1611.6	572.0	585.4	578.7	551.8	518.1	535.0	546.7	565.2	568.6
45°	4161.9	1552.7	550.1	538.3	538.3	489.5	476.1	479.4	506.4	526.5	523.2
47.5°	4057.6	1495.5	511.4	476.1	487.9	447.5	432.3	432.3	460.9	486.2	481.1
48°	4017.2	1472.0	513.1	462.6	471.0	440.8	425.6	422.2	454.2	477.8	477.8
50°	3817.1	1384.5	469.4	425.6	408.8	405.4	395.3	398.7	418.9	440.8	440.8
52.5°	3426.8	1196.1	397.0	365.1	334.8	355.0	360.0	353.3	363.4	383.6	381.9
55°	2859.8	918.5	317.9	302.8	279.3	301.1	311.2	302.8	292.7	307.9	307.9
57.5°	1832.0	494.6	254.0	257.4	233.8	255.7	264.1	243.9	225.4	237.2	235.5
60°	826.0	296.1	208.6	203.6	188.4	213.6	227.1	203.6	178.3	186.7	195.1
62.5°	309.5	210.3	158.1	154.8	151.4	175.0	181.7	163.2	137.9	143.0	144.7
65°	227.1	185.0	126.2	114.4	121.1	137.9	134.6	116.1	99.3	99.3	102.6
67.5°	193.5	161.5	102.6	89.2	89.2	90.8	84.1	74.0	69.0	72.3	75.7
70°	151.4	127.9	80.7	69.0	62.2	55.5	48.8	47.1	42.1	47.1	45.4
72.5°	97.6	85.8	62.2	52.2	47.1	38.7	32.0	30.3	25.2	23.6	23.6
75°	52.2	52.2	48.8	42.1	37.0	30.3	25.2	20.2	13.5	10.1	10.1
77.5°	37.0	40.4	43.7	40.4	33.6	25.2	20.2	13.5	6.7	3.4	3.4
80°	35.3	40.4	43.7	38.7	33.6	25.2	18.5	10.1	5.0	1.7	1.7
82.5°	32.0	37.0	40.4	35.3	30.3	21.9	16.8	10.1	5.0	1.7	1.7
85°	6.7	8.4	10.1	10.1	11.8	15.1	11.8	8.4	3.4	1.7	1.7
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.4	3.4	1.7	1.7	1.7
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)