

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: P530989

Luminaire Tested: **GALN-SA6B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17971 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

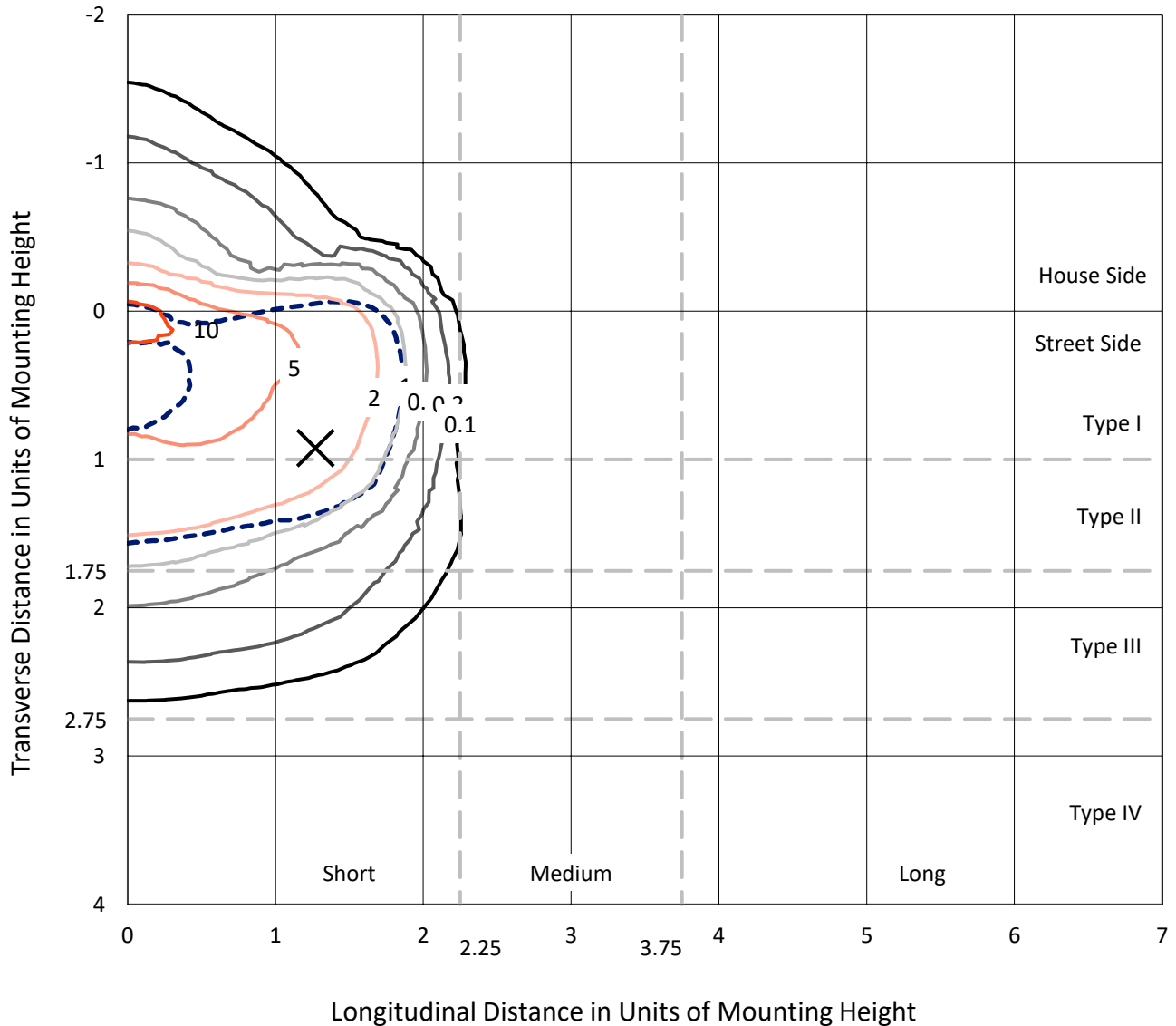
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

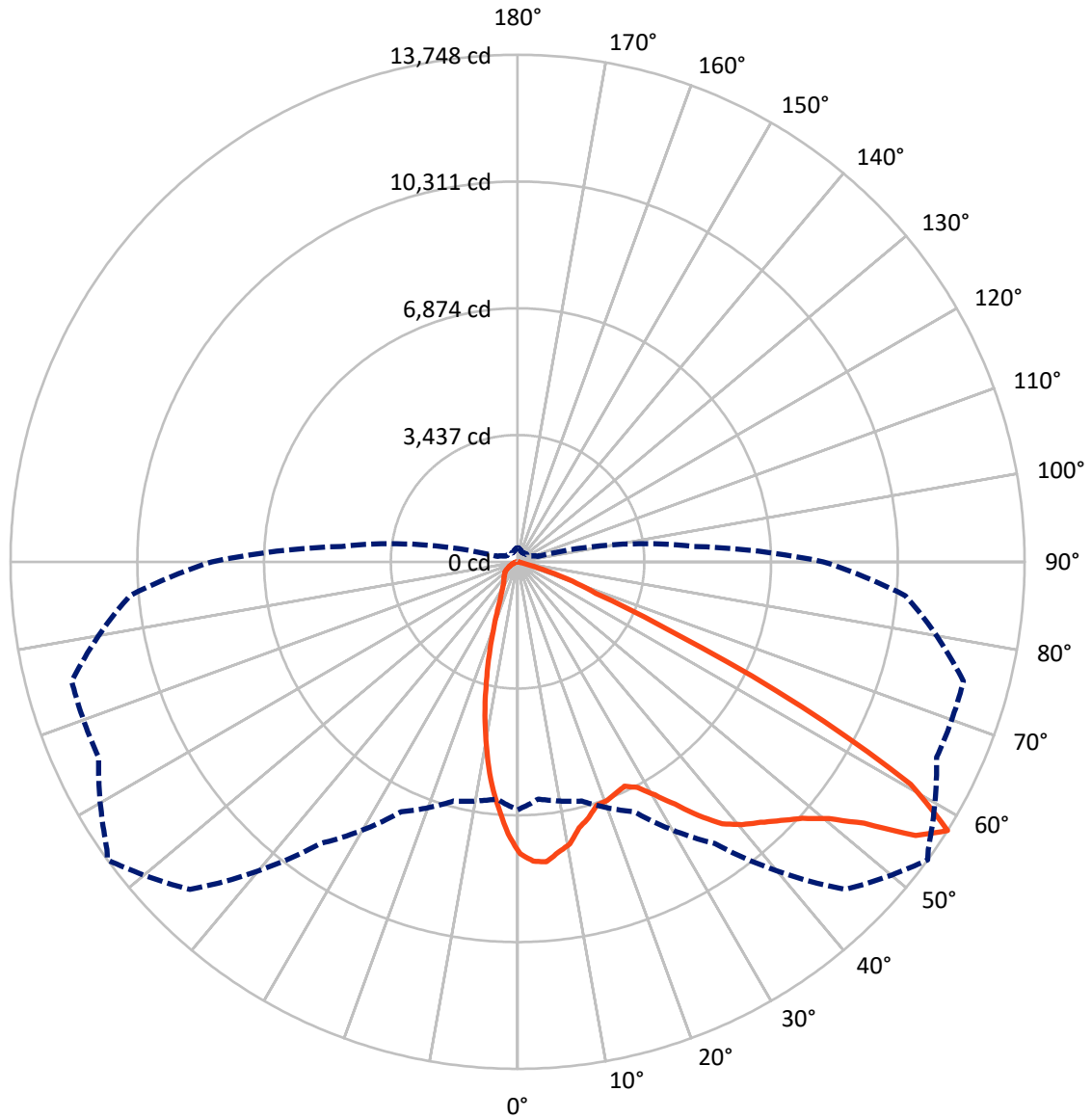
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2539.6	0.0	2539.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15431.4	0.0	15431.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	17971.0	0.0	17971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.5	3.7
10°-20°	1414.4	7.9
20°-30°	1874.3	10.4
30°-40°	2723.9	15.2
40°-50°	4039.1	22.5
50°-60°	5050.8	28.1
60°-70°	1992.3	11.1
70°-80°	198.4	1.1
80°-90°	15.4	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°	17971.0	100.0
0°-180°	17971.0	100.0

Coefficient of Utilization



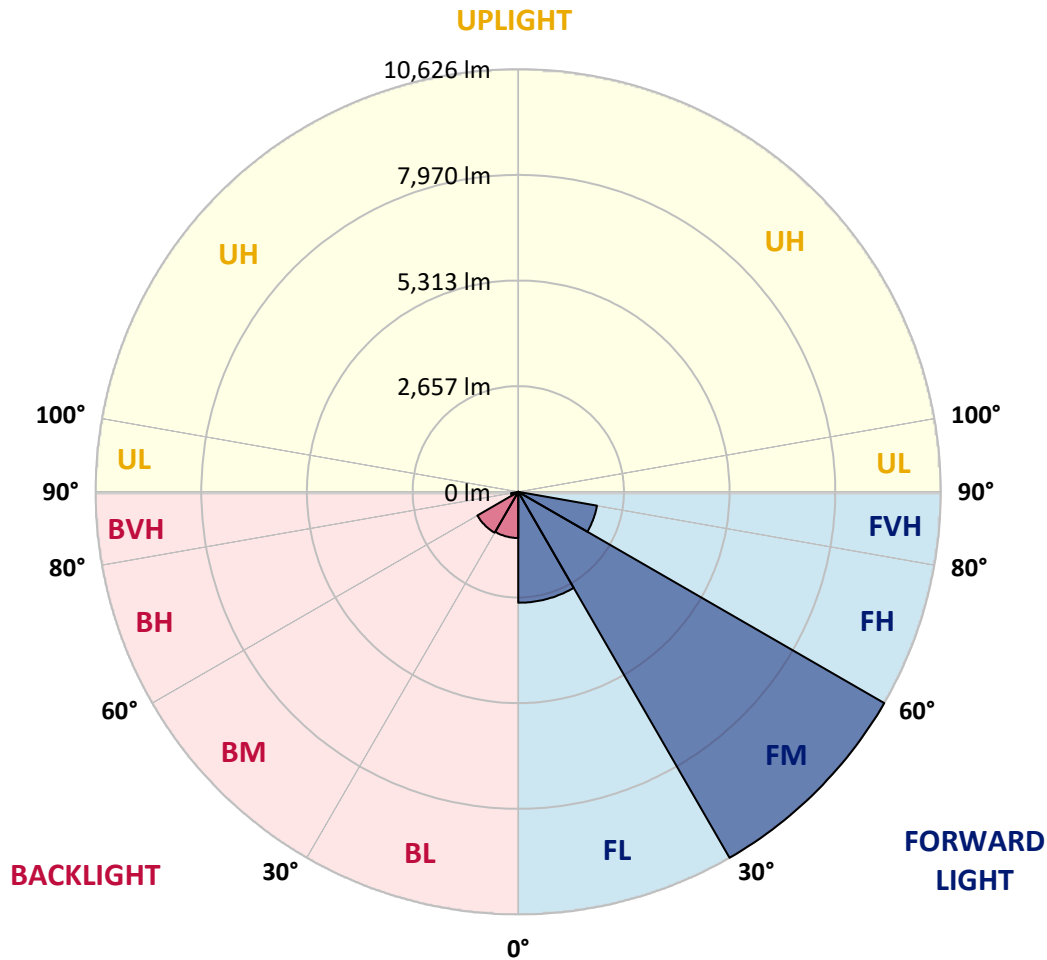
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2789.6	15.5			
FM (30°-60°)	10626.2	59.1			
FH (60°-80°)	2008.6	11.2			G2/5000
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1161.5	6.5	B3/2500		
BM (30°-60°)	1187.6	6.6	B2/2500		
BH (60°-80°)	182.1	1.0	B1/500		G1/500
BVH (80°-90°)	8.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5
2.5°	8377.6	8290.7	8297.4	8267.3	8227.2	8257.3	8127.0	8157.1	8153.7	7976.6	7859.7
5°	8167.1	8260.7	8163.8	8244.0	8167.1	8250.6	8170.4	8110.3	8013.4	7883.1	7665.8
7.5°	7809.5	7719.3	7746.0	7846.3	7863.0	8050.1	7949.9	8026.7	7986.6	7729.3	7431.9
10°	7091.1	7071.0	7204.7	7338.4	7502.1	7702.6	7779.5	7736.0	7705.9	7609.0	7211.4
12.5°	6539.7	6596.5	6593.2	6813.7	7091.1	7204.7	7405.2	7398.5	7565.6	7385.1	7004.2
15°	6015.0	6045.1	6185.5	6322.5	6629.9	6954.1	7201.3	7234.8	7435.3	7308.3	6843.8
17.5°	5694.2	5650.8	5761.1	5924.8	6238.9	6663.3	6937.4	7017.6	7291.6	7264.8	6660.0
20°	5376.8	5376.8	5467.0	5660.8	5948.2	6426.1	6914.0	6890.6	7291.6	7214.7	6462.8
22.5°	5269.8	5323.3	5346.7	5493.7	5834.6	6245.6	6813.7	6857.2	7348.4	7191.3	6375.9
25°	5416.9	5346.7	5353.4	5470.3	5791.2	6158.7	6740.2	6837.1	7452.0	7308.3	6305.8
27.5°	5440.3	5510.4	5530.5	5610.7	5824.6	6185.5	6924.0	7121.1	7709.3	7582.3	6325.8
30°	5644.1	5714.3	5711.0	5848.0	5995.0	6402.7	7335.0	7375.1	8240.6	7926.5	6449.5
32.5°	5891.4	5964.9	5988.3	6148.7	6265.7	6800.3	7836.3	7939.9	8751.9	8467.8	6773.6
35°	6198.8	6172.1	6279.0	6439.4	6690.1	7381.8	8447.8	8621.6	9303.3	9169.6	7107.8
37.5°	6583.1	6549.7	6653.3	6914.0	7254.8	8070.2	9012.5	9126.2	9704.3	9821.2	7726.0
40°	6853.8	6867.2	7181.3	7532.2	7893.1	8725.2	9370.1	9480.4	9985.0	10429.4	8193.8
42.5°	7304.9	7388.5	7766.1	8193.8	8571.4	9216.4	9660.8	9767.8	10115.3	10917.3	8825.4
45°	7959.9	7923.2	8340.9	8818.7	9236.4	9727.7	10005.0	9968.3	10192.2	11401.9	9223.1
47.5°	8802.0	8808.7	9086.1	9493.7	9928.2	10172.1	10389.3	10259.0	10352.6	11913.1	9754.4
50°	9376.8	9426.9	9650.8	10068.5	10285.7	10660.0	10937.4	10857.2	10827.1	12220.6	10088.6
52.5°	9523.8	9674.2	9794.5	10315.8	10823.7	11415.2	11769.4	11939.9	11405.2	12324.2	10513.0
55°	8414.4	8548.0	8972.4	9687.6	11027.6	12611.5	13099.4	13102.8	12160.4	12785.3	10810.4
57.5°	6726.8	6456.1	6716.8	7475.4	9323.3	12561.4	13747.7	13590.7	12538.0	12514.6	10553.1
60°	4651.6	4584.8	4601.5	4902.3	6452.8	9991.7	12250.6	12454.5	11545.5	10847.1	8354.2
62.5°	3685.9	3629.1	3555.6	3522.1	4006.7	6225.6	8641.6	8929.0	8073.5	7034.3	4952.4
65°	2887.2	2853.8	2863.8	2997.5	2994.2	3532.2	4725.2	4608.2	3689.2	2726.8	1557.2
67.5°	1948.2	1998.3	2038.4	2442.8	2650.0	2459.5	2282.4	2215.5	1199.7	504.6	344.2
70°	1096.1	1102.8	1146.2	1527.2	2011.7	1908.1	1573.9	1573.9	598.2	183.8	197.2
72.5°	598.2	578.1	538.0	658.3	895.6	908.9	701.8	611.5	177.1	120.3	110.3
75°	290.7	287.4	247.3	203.8	193.8	160.4	123.6	113.6	80.2	76.9	66.8
77.5°	60.2	56.8	30.1	30.1	33.4	36.8	46.8	46.8	56.8	56.8	46.8
80°	0.0	0.0	3.3	13.4	23.4	33.4	40.1	40.1	46.8	46.8	36.8
82.5°	0.0	0.0	3.3	10.0	20.1	30.1	36.8	40.1	46.8	50.1	40.1
85°	0.0	0.0	0.0	6.7	16.7	23.4	20.1	20.1	16.7	13.4	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5	7916.5
2.5°	7799.5	7792.8	7639.1	7552.2	7395.2	7258.2	7147.9	7067.7	7067.7	7017.6	6970.8
5°	7579.0	7522.1	7194.7	6984.1	6686.7	6466.2	6315.8	6198.8	6015.0	6065.2	5868.0
7.5°	7304.9	7161.2	6726.8	6406.0	5995.0	5680.9	5360.1	5076.0	4802.0	4678.4	4745.2
10°	7010.9	6760.2	6175.4	5667.5	5156.2	4581.5	4207.2	3752.7	3472.0	3455.3	3381.8
12.5°	6700.1	6416.0	5704.3	5002.5	4330.8	3639.1	3067.7	2643.3	2452.8	2242.3	2282.4
15°	6466.2	6045.1	5179.6	4334.2	3441.9	2743.5	2168.8	1841.3	1660.8	1610.7	1594.0
17.5°	6212.2	5761.1	4645.0	3622.4	2700.1	1974.9	1560.6	1403.5	1333.3	1333.3	1323.3
20°	5948.2	5440.3	4113.6	2960.7	2025.1	1473.7	1249.8	1199.7	1196.3	1193.0	1193.0
22.5°	5774.4	5072.7	3632.4	2352.6	1527.2	1179.6	1086.0	1066.0	1079.4	1119.5	1119.5
25°	5590.7	4718.5	3101.1	1814.5	1183.0	1012.5	959.1	972.4	1005.8	1042.6	1029.2
27.5°	5403.5	4487.9	2599.8	1423.6	969.1	885.5	865.5	895.6	932.3	965.7	955.7
30°	5360.1	4240.6	2125.3	1079.4	832.1	771.9	785.3	812.0	848.8	862.2	875.5
32.5°	5426.9	4046.8	1741.0	885.5	725.1	708.4	708.4	721.8	745.2	775.3	765.2
35°	5617.4	3936.5	1376.8	768.6	665.0	648.3	644.9	658.3	671.7	681.7	671.7
37.5°	5908.1	3849.6	1126.2	681.7	624.9	598.2	591.5	588.1	601.5	604.8	611.5
40°	6279.0	3896.4	955.7	628.2	584.8	554.7	534.7	534.7	534.7	544.7	548.0
42.5°	6680.0	3959.9	825.4	598.2	548.0	511.3	491.2	484.5	491.2	504.6	501.3
45°	7101.1	4083.5	741.9	551.4	514.6	467.8	441.1	434.4	451.1	477.9	474.5
47.5°	7495.4	4260.7	678.4	521.3	481.2	437.8	404.3	397.7	427.7	464.5	467.8
50°	7889.7	4568.1	655.0	497.9	457.8	407.7	377.6	370.9	404.3	451.1	461.2
52.5°	8344.2	4898.9	638.3	467.8	431.1	384.3	350.9	344.2	381.0	441.1	444.4
55°	8641.6	5179.6	624.9	414.4	381.0	347.5	320.8	317.5	357.6	411.0	424.4
57.5°	8294.1	4788.6	578.1	360.9	324.1	307.4	284.0	284.0	317.5	367.6	377.6
60°	6289.1	3151.2	411.0	290.7	274.0	264.0	254.0	254.0	280.7	317.5	320.8
62.5°	3682.5	1697.6	264.0	233.9	233.9	223.9	207.2	207.2	233.9	254.0	257.3
65°	1092.7	544.7	213.9	200.5	197.2	180.5	163.7	160.4	180.5	190.5	187.1
67.5°	314.1	250.6	177.1	167.1	163.7	137.0	127.0	123.6	127.0	120.3	117.0
70°	187.1	170.4	137.0	140.4	123.6	100.3	90.2	86.9	80.2	70.2	63.5
72.5°	103.6	103.6	100.3	106.9	86.9	66.8	56.8	46.8	36.8	30.1	26.7
75°	63.5	66.8	70.2	73.5	56.8	43.4	36.8	23.4	13.4	6.7	6.7
77.5°	43.4	46.8	50.1	53.5	46.8	40.1	30.1	16.7	3.3	0.0	0.0
80°	33.4	36.8	43.4	46.8	50.1	53.5	40.1	16.7	3.3	0.0	0.0
82.5°	36.8	40.1	50.1	46.8	46.8	46.8	36.8	16.7	3.3	0.0	0.0
85°	6.7	10.0	16.7	16.7	23.4	30.1	23.4	6.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)