

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: P530675

Luminaire Tested: **GALN-SA5D-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17969 lumens
Efficiency: N/A
Efficacy: 58.2 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): 309
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

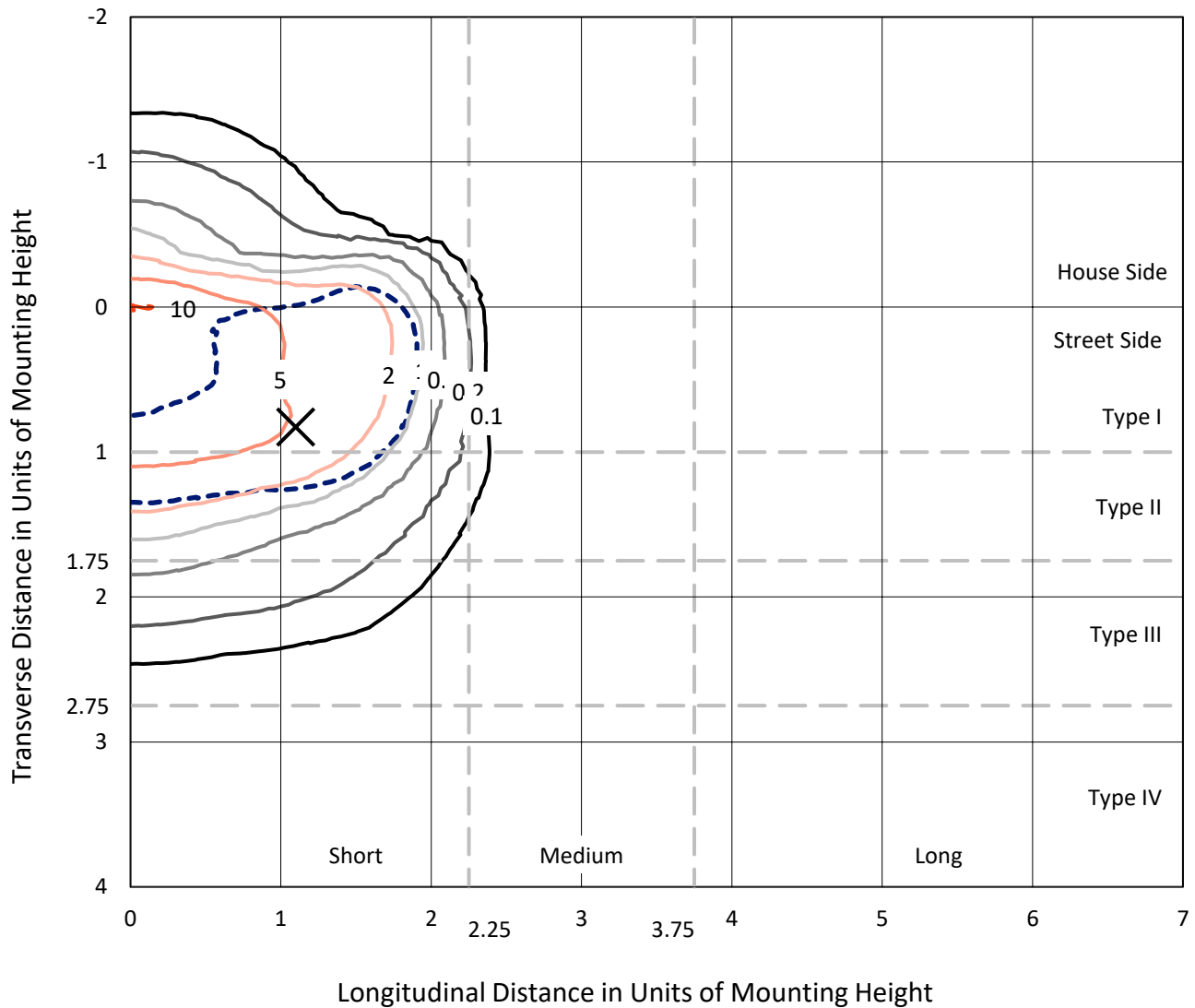


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

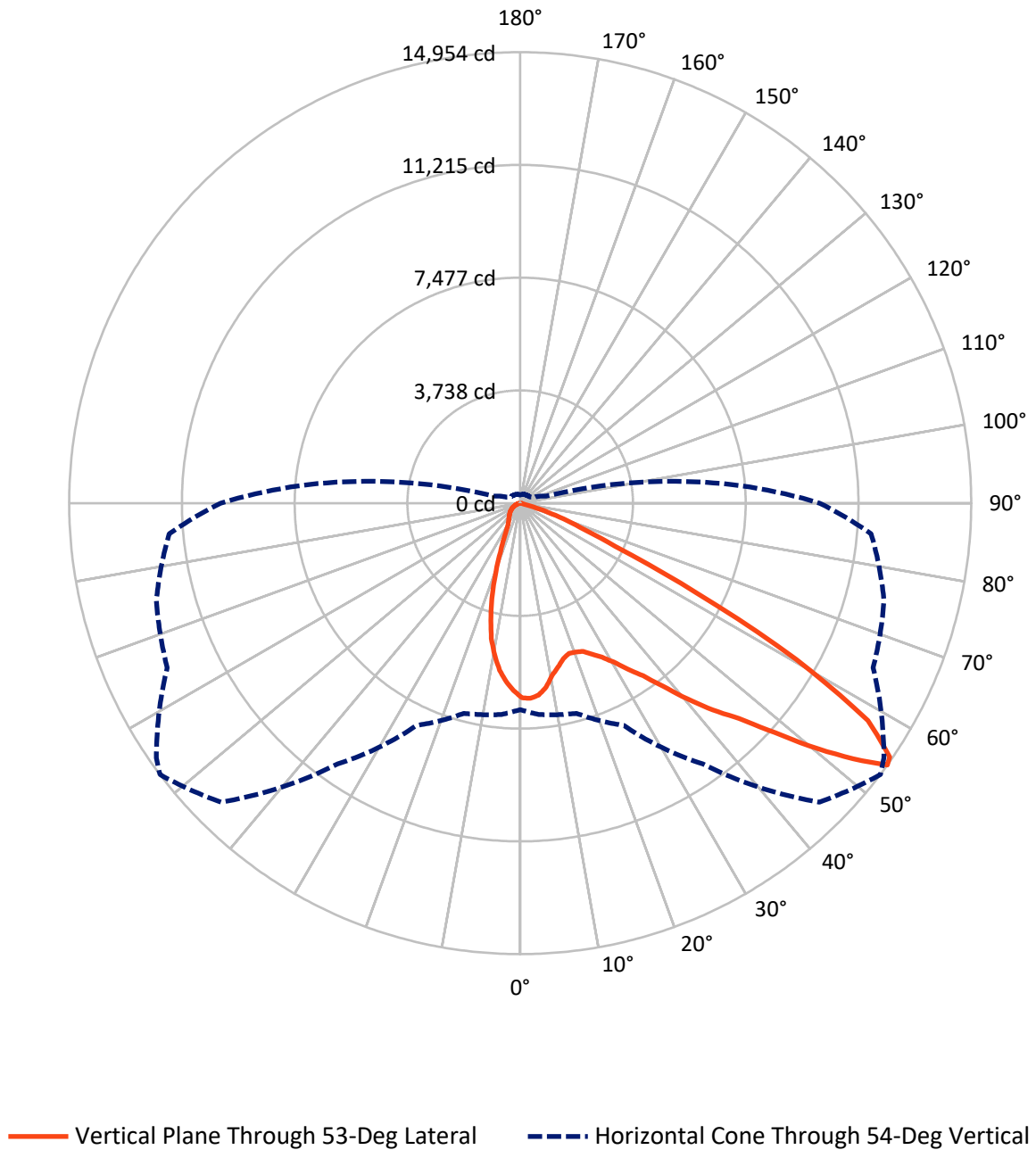


Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2973.0	0.0	2973.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14996.0	0.0	14996.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	17969.0	0.0	17969.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.8	3.1
10°-20°	1269.6	7.1
20°-30°	1804.3	10.0
30°-40°	2784.6	15.5
40°-50°	4366.0	24.3
50°-60°	5071.7	28.2
60°-70°	1916.4	10.7
70°-80°	182.2	1.0
80°-90°	20.5	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°	17969.0	100.0
0°-180°	17969.0	100.0

Coefficient of Utilization



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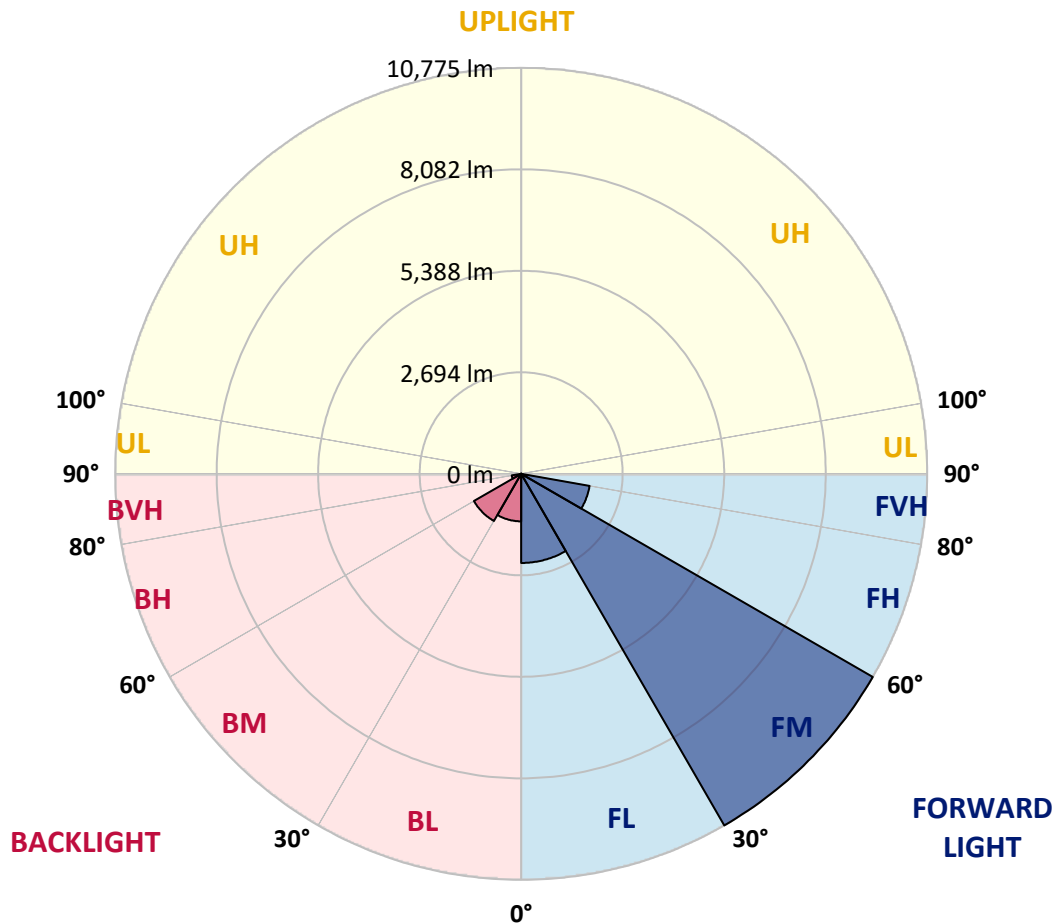
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2366.1	13.2			
FM	(30°-60°)	10775.4	60.0			
FH	(60°-80°)	1843.9	10.3			G2/5000
FVH	(80°-90°)	10.6	0.1			G1/100
BL	(0°-30°)	1261.6	7.0	B3/2500		
BM	(30°-60°)	1446.8	8.1	B2/2500		
BH	(60°-80°)	254.7	1.4	B1/500		G1/500
BVH	(80°-90°)	9.9	0.1			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°	53°	55°	65°	75°	85°
0°	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2
2.5°	6420.7	6363.8	6420.7	6427.4	6467.6	6504.4	6480.9	6534.5	6504.4	6470.9	6460.9
5°	5901.8	5978.8	5982.2	6102.7	6075.9	6296.8	6393.9	6367.1	6531.2	6521.1	6497.7
7.5°	5436.5	5406.4	5446.5	5587.1	5764.6	6019.0	6159.6	6156.2	6390.6	6557.9	6541.2
10°	5004.7	5001.3	5085.0	5195.5	5346.1	5613.9	5808.1	5905.2	6270.0	6524.5	6561.3
12.5°	4713.4	4700.0	4790.4	4880.8	5118.5	5326.0	5573.7	5620.6	6039.1	6407.3	6467.6
15°	4522.6	4552.7	4559.4	4733.5	4884.1	5158.6	5352.8	5449.9	5931.9	6313.6	6544.5
17.5°	4489.1	4529.3	4532.6	4676.6	4837.3	5068.3	5239.0	5369.5	5841.6	6360.4	6547.9
20°	4556.1	4532.6	4552.7	4643.1	4800.5	5021.4	5269.1	5312.6	5811.4	6383.9	6584.7
22.5°	4746.9	4740.2	4690.0	4763.6	4874.1	5105.1	5339.4	5406.4	5898.5	6504.4	6614.8
25°	4957.8	4994.6	4947.7	4937.7	5014.7	5242.3	5553.7	5640.7	6189.7	6722.0	6708.6
27.5°	5352.8	5316.0	5316.0	5269.1	5249.0	5359.5	5784.6	5928.6	6514.4	7003.2	6815.7
30°	5731.1	5771.3	5741.1	5757.9	5624.0	5613.9	6112.7	6290.1	7090.2	7431.7	7043.3
32.5°	6330.3	6276.7	6327.0	6283.4	6106.0	5925.2	6557.9	6742.1	7786.5	7923.8	7384.8
35°	6829.1	6805.7	7019.9	7013.2	6725.3	6547.9	7029.9	7304.5	8271.9	8512.9	7786.5
37.5°	7538.8	7495.3	7739.6	7856.8	7599.0	7334.6	7706.2	8024.2	8723.8	8984.9	8198.3
40°	8268.6	8379.0	8707.1	8901.3	8626.8	8275.3	8533.0	8630.1	9025.1	9292.9	8479.5
42.5°	9192.5	9353.2	9687.9	9855.3	9831.9	9450.3	9373.3	9369.9	9242.7	9205.9	8687.0
45°	10079.6	10019.3	10534.9	10899.8	11194.4	11083.9	10183.4	10083.0	9587.5	9336.4	8740.6
47.5°	10467.9	10447.8	10799.3	11448.8	12453.1	12590.3	11361.7	10973.4	10170.0	9885.4	9031.8
50°	9965.8	10069.6	10417.7	11137.4	12677.3	13725.1	12807.9	12285.7	10849.6	10555.0	9721.4
52.5°	8325.5	8395.8	8727.2	9641.1	11914.1	14394.7	14193.8	13892.5	12098.2	11609.5	10923.2
54°	6845.8	7033.3	7214.1	8131.3	10555.0	14023.1	14953.7	14722.7	12911.7	12486.5	11679.8
55°	5962.1	6072.5	6203.1	7117.0	9614.3	13393.7	14866.7	14886.8	13457.3	12761.0	12188.6
57.5°	4355.2	4432.2	4298.3	4703.4	6601.5	10876.3	13597.9	14140.2	14193.8	13172.8	12499.9
60°	3327.5	3361.0	3210.3	3273.9	4104.2	7465.1	10518.1	11170.9	12804.5	11512.4	10588.4
62.5°	2581.0	2587.7	2584.3	2694.8	2828.7	4392.0	6578.0	7157.2	8827.6	8174.8	7190.6
65°	1901.4	1871.3	1924.9	2259.6	2413.6	2761.8	3464.8	3886.6	4797.1	4050.6	2895.7
67.5°	1231.9	1242.0	1295.5	1680.5	2068.8	2119.0	2132.4	2098.9	2102.3	1158.3	726.4
70°	739.8	756.6	739.8	950.7	1479.6	1519.8	1389.3	1355.8	1057.8	274.5	271.2
72.5°	438.5	415.1	371.6	408.4	616.0	736.5	662.8	659.5	415.1	160.7	160.7
75°	184.1	167.4	137.3	123.9	164.0	157.3	157.3	140.6	110.5	107.1	100.4
77.5°	36.8	36.8	26.8	30.1	40.2	46.9	56.9	56.9	67.0	67.0	63.6
80°	0.0	3.3	10.0	20.1	30.1	43.5	50.2	50.2	56.9	56.9	46.9
82.5°	0.0	3.3	10.0	20.1	26.8	40.2	50.2	50.2	56.9	60.3	50.2
85°	0.0	3.3	10.0	16.7	26.8	33.5	33.5	30.1	23.4	20.1	13.4
87.5°	0.0	0.0	3.3	6.7	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2	6454.2
2.5°	6484.3	6480.9	6400.6	6270.0	6239.9	6129.4	6116.1	6049.1	6085.9	5962.1	5948.7
5°	6430.7	6390.6	6293.5	6209.8	5965.4	5791.3	5654.1	5486.7	5389.6	5406.4	5342.8
7.5°	6507.7	6403.9	6233.2	5942.0	5644.0	5339.4	5175.4	4833.9	4710.1	4525.9	4499.2
10°	6427.4	6350.4	6085.9	5603.9	5192.1	4753.6	4368.6	3990.3	3702.4	3578.6	3551.8
12.5°	6420.7	6286.8	5844.9	5309.3	4713.4	4084.1	3525.0	3053.0	2768.5	2607.8	2571.0
15°	6316.9	6156.2	5573.7	4854.0	4030.5	3247.2	2637.9	2182.6	1965.0	1871.3	1898.1
17.5°	6327.0	6085.9	5302.6	4372.0	3357.6	2383.5	1801.0	1566.7	1509.8	1533.2	1533.2
20°	6316.9	5928.6	4974.5	3816.3	2571.0	1653.7	1322.3	1238.6	1275.4	1349.1	1332.3
22.5°	6263.3	5854.9	4673.2	3230.4	1891.4	1225.2	1061.2	1064.5	1121.4	1211.8	1231.9
25°	6303.5	5690.9	4291.6	2637.9	1379.2	977.5	920.6	944.0	1004.3	1071.2	1084.6
27.5°	6273.4	5573.7	3893.3	2048.7	1007.6	840.2	836.9	863.7	890.5	940.7	940.7
30°	6306.9	5466.6	3501.6	1523.2	830.2	769.9	756.6	776.6	803.4	813.5	810.1
32.5°	6430.7	5386.3	3049.7	1138.2	733.1	703.0	703.0	703.0	699.6	713.0	716.4
35°	6701.9	5399.7	2651.3	880.4	669.5	646.1	636.0	622.7	616.0	622.7	626.0
37.5°	6996.5	5393.0	2239.5	749.9	622.7	602.6	579.1	559.0	555.7	562.4	552.4
40°	7127.0	5456.6	1857.9	672.9	579.1	555.7	518.9	502.1	505.5	512.2	505.5
42.5°	7304.5	5476.7	1610.2	612.6	539.0	502.1	478.7	458.6	455.3	465.3	462.0
45°	7301.1	5362.8	1349.1	579.1	502.1	462.0	431.8	415.1	415.1	421.8	425.1
47.5°	7515.3	5346.1	1158.3	549.0	475.4	435.2	398.4	385.0	381.6	381.6	374.9
50°	8014.1	5580.4	1011.0	515.5	441.9	405.1	374.9	358.2	344.8	338.1	334.8
52.5°	8988.3	6310.2	897.2	475.4	405.1	374.9	348.1	334.8	318.0	301.3	297.9
54°	9932.3	7063.4	890.5	441.9	374.9	354.8	331.4	324.7	304.6	281.2	274.5
55°	10357.5	7502.0	913.9	415.1	354.8	341.5	321.4	314.7	294.6	267.8	264.5
57.5°	10709.0	7672.7	900.5	344.8	321.4	318.0	301.3	291.2	267.8	231.0	224.3
60°	8620.1	5801.4	646.1	304.6	294.6	287.9	274.5	267.8	237.7	197.5	194.2
62.5°	5446.5	3337.6	411.8	267.8	257.8	247.7	231.0	224.3	197.5	157.3	147.3
65°	2319.9	1382.6	277.9	237.7	220.9	204.2	190.8	180.8	157.3	117.2	113.8
67.5°	602.6	492.1	231.0	207.6	184.1	160.7	150.6	133.9	107.1	80.3	77.0
70°	271.2	247.7	194.2	174.1	147.3	123.9	110.5	93.7	70.3	53.6	50.2
72.5°	160.7	157.3	147.3	130.6	110.5	93.7	80.3	63.6	46.9	30.1	30.1
75°	100.4	97.1	100.4	90.4	77.0	70.3	60.3	43.5	26.8	13.4	13.4
77.5°	60.3	60.3	60.3	56.9	53.6	53.6	43.5	26.8	13.4	3.3	3.3
80°	46.9	46.9	50.2	46.9	46.9	46.9	36.8	20.1	6.7	0.0	0.0
82.5°	46.9	50.2	56.9	53.6	46.9	40.2	33.5	20.1	6.7	0.0	0.0
85°	13.4	10.0	16.7	23.4	33.5	30.1	23.4	16.7	6.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	3.3	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)