

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: P533015

Luminaire Tested: **GALN-SA8B-830-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533015
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-SA8B-830-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA 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: 21312 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

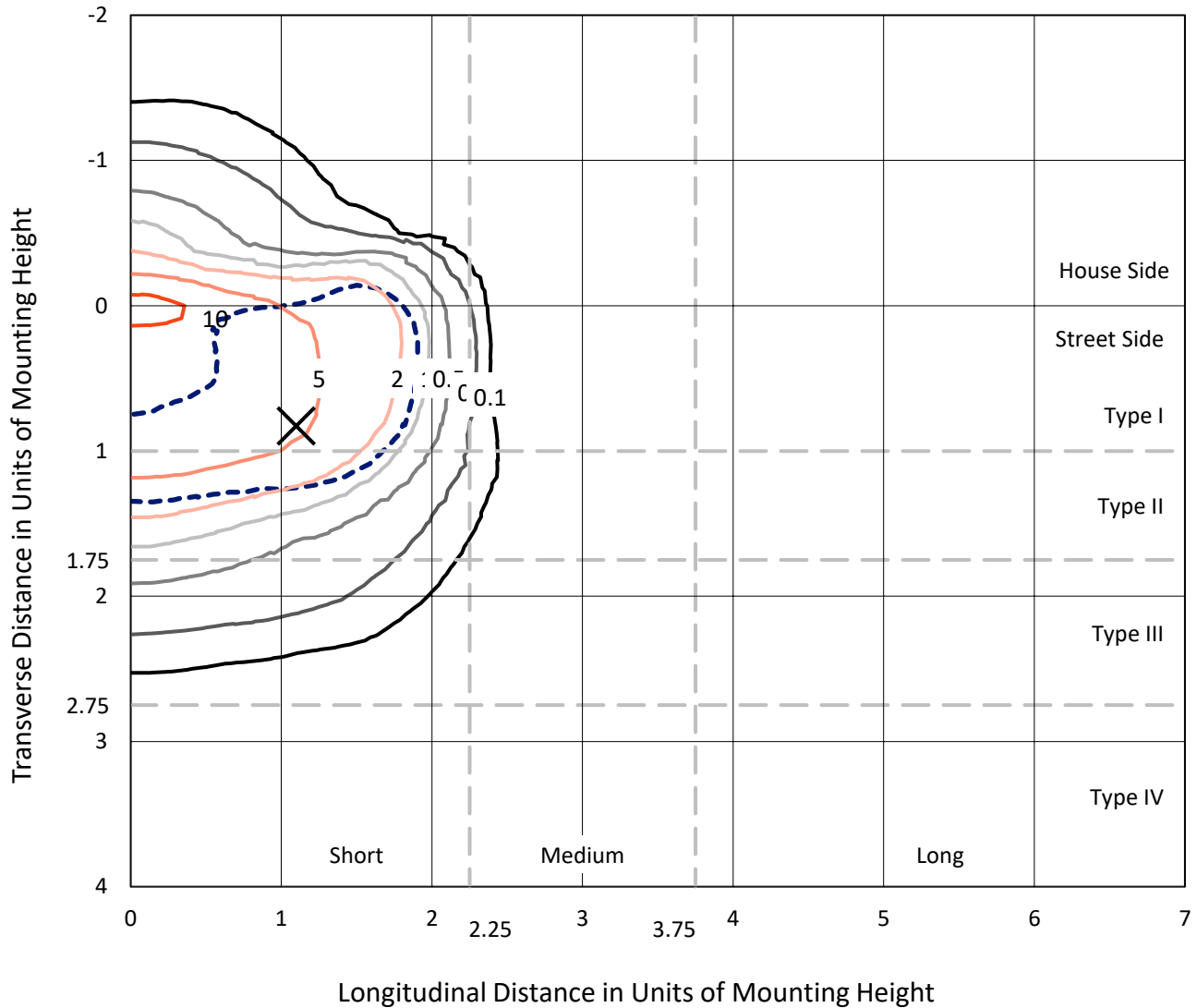
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

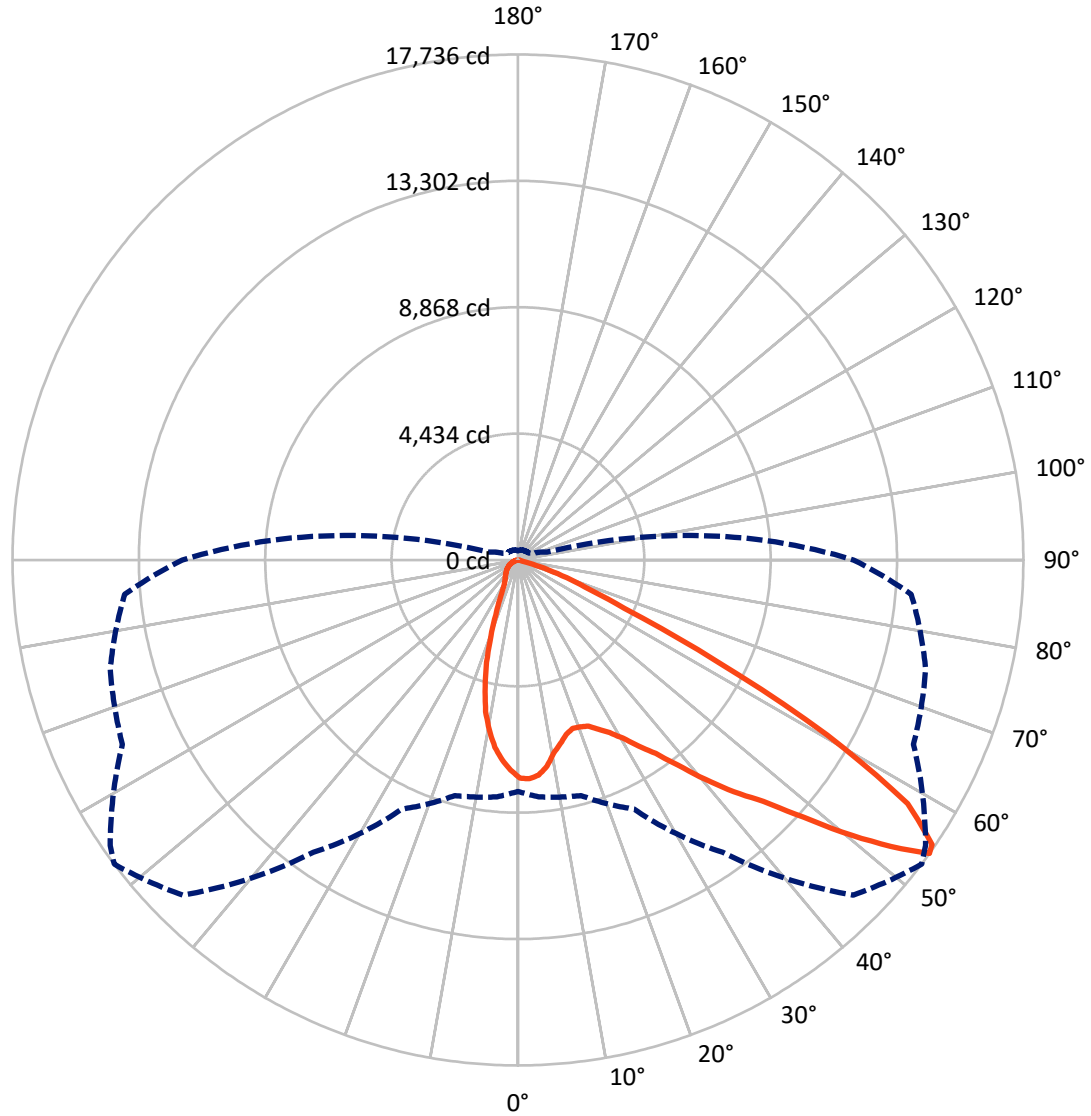
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3526.1	0.0	3526.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17785.9	0.0	17785.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	21312.0	0.0	21312.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	656.8	3.1
10°-20°	1505.8	7.1
20°-30°	2140.0	10.0
30°-40°	3302.6	15.5
40°-50°	5178.2	24.3
50°-60°	6015.2	28.2
60°-70°	2272.9	10.7
70°-80°	216.1	1.0
80°-90°	24.3	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°	21312.0	100.0
0°-180°	21312.0	100.0

Coefficient of Utilization



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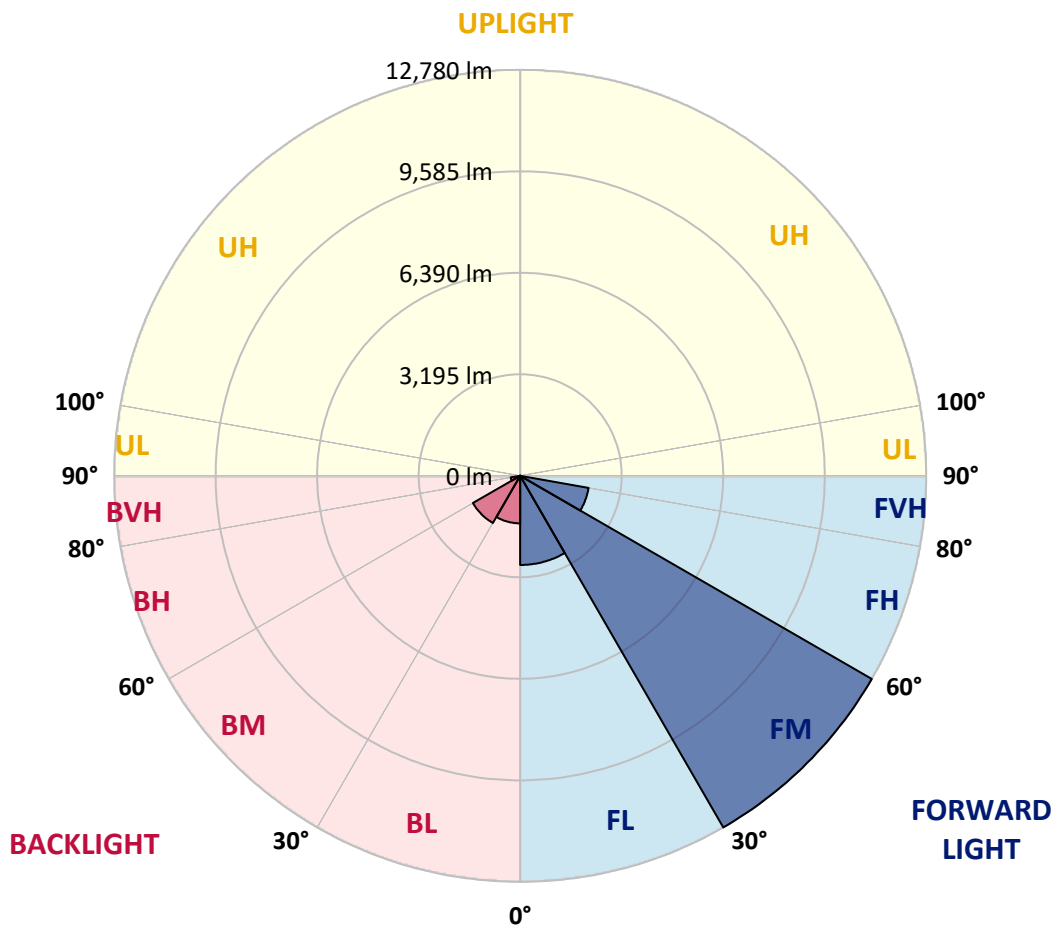
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.2	13.2			
FM (30°-60°)	12780.1	60.0			
FH (60°-80°)	2186.9	10.3			G2/5000
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	1496.3	7.0	B3/2500		
BM (30°-60°)	1715.9	8.1	B2/2500		
BH (60°-80°)	302.1	1.4	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
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°	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9
2.5°	7615.2	7547.7	7615.2	7623.1	7670.8	7714.5	7686.7	7750.2	7714.5	7674.8	7662.9
5°	6999.8	7091.1	7095.1	7238.0	7206.3	7468.3	7583.4	7551.7	7746.2	7734.3	7706.5
7.5°	6447.9	6412.2	6459.8	6626.6	6837.0	7138.8	7305.5	7301.5	7579.5	7778.0	7758.1
10°	5935.7	5931.8	6031.0	6162.0	6340.7	6658.3	6888.6	7003.8	7436.5	7738.3	7782.0
12.5°	5590.3	5574.4	5681.6	5788.8	6070.7	6316.9	6610.7	6666.3	7162.6	7599.3	7670.8
15°	5364.0	5399.7	5407.7	5614.1	5792.8	6118.4	6348.7	6463.8	7035.5	7488.2	7762.1
17.5°	5324.3	5371.9	5375.9	5546.6	5737.2	6011.2	6213.7	6368.5	6928.3	7543.7	7766.1
20°	5403.7	5375.9	5399.7	5506.9	5693.5	5955.6	6249.4	6301.0	6892.6	7571.5	7809.8
22.5°	5630.0	5622.1	5562.5	5649.9	5780.9	6054.8	6332.8	6412.2	6995.8	7714.5	7845.5
25°	5880.1	5923.8	5868.2	5856.3	5947.6	6217.6	6586.9	6690.1	7341.3	7972.5	7956.7
27.5°	6348.7	6305.0	6305.0	6249.4	6225.6	6356.6	6860.8	7031.6	7726.4	8306.1	8083.7
30°	6797.3	6845.0	6809.2	6829.1	6670.3	6658.3	7249.9	7460.4	8409.3	8814.3	8353.7
32.5°	7508.0	7444.5	7504.0	7452.4	7242.0	7027.6	7778.0	7996.4	9235.1	9397.9	8758.7
35°	8099.6	8071.8	8325.9	8318.0	7976.5	7766.1	8337.8	8663.4	9810.8	10096.7	9235.1
37.5°	8941.3	8889.7	9179.5	9318.5	9012.8	8699.1	9139.8	9517.0	10346.8	10656.5	9723.5
40°	9806.9	9937.9	10327.0	10557.3	10231.7	9814.8	10120.5	10235.7	10704.2	11021.8	10057.0
42.5°	10902.7	11093.3	11490.3	11688.8	11661.0	11208.4	11117.1	11113.1	10962.2	10918.6	10303.2
45°	11954.8	11883.4	12494.8	12927.6	13277.0	13146.0	12077.9	11958.8	11371.2	11073.4	10366.7
47.5°	12415.4	12391.6	12808.5	13578.7	14769.8	14932.6	13475.5	13014.9	12062.0	11724.6	10712.1
50°	11819.8	11942.9	12355.9	13209.5	15035.9	16278.6	15190.7	14571.3	12868.0	12518.6	11530.0
52.5°	9874.4	9957.7	10350.8	11434.7	14130.6	17072.7	16834.5	16477.1	14349.0	13769.3	12955.4
54°	8119.4	8341.8	8556.2	9644.1	12518.6	16632.0	17735.7	17461.8	15313.8	14809.6	13852.7
55°	7071.3	7202.3	7357.1	8441.0	11403.0	15885.5	17632.5	17656.3	15961.0	15135.1	14456.2
57.5°	5165.5	5256.8	5098.0	5578.4	7829.6	12899.8	16127.7	16770.9	16834.5	15623.5	14825.4
60°	3946.6	3986.3	3807.6	3883.0	4867.7	8854.0	12475.0	13249.2	15186.7	13654.2	12558.3
62.5°	3061.2	3069.1	3065.1	3196.2	3355.0	5209.2	7801.8	8488.7	10469.9	9695.7	8528.4
65°	2255.2	2219.4	2283.0	2680.0	2862.7	3275.6	4109.4	4609.6	5689.6	4804.2	3434.4
67.5°	1461.1	1473.0	1536.5	1993.1	2453.7	2513.3	2529.1	2489.4	2493.4	1373.8	861.6
70°	877.5	897.3	877.5	1127.6	1754.9	1802.6	1647.7	1608.0	1254.6	325.6	321.6
72.5°	520.1	492.3	440.7	484.4	730.6	873.5	786.1	782.2	492.3	190.6	190.6
75°	218.4	198.5	162.8	146.9	194.5	186.6	186.6	166.8	131.0	127.1	119.1
77.5°	43.7	43.7	31.8	35.7	47.6	55.6	67.5	67.5	79.4	79.4	75.4
80°	0.0	4.0	11.9	23.8	35.7	51.6	59.6	59.6	67.5	67.5	55.6
82.5°	0.0	4.0	11.9	23.8	31.8	47.6	59.6	59.6	67.5	71.5	59.6
85°	0.0	4.0	11.9	19.9	31.8	39.7	39.7	35.7	27.8	23.8	15.9
87.5°	0.0	0.0	4.0	7.9	4.0	7.9	7.9	7.9	7.9	7.9	7.9
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°	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9	7654.9
2.5°	7690.6	7686.7	7591.4	7436.5	7400.8	7269.8	7253.9	7174.5	7218.2	7071.3	7055.4
5°	7627.1	7579.5	7464.3	7365.1	7075.2	6868.8	6706.0	6507.5	6392.3	6412.2	6336.7
7.5°	7718.4	7595.4	7392.9	7047.4	6694.1	6332.8	6138.2	5733.2	5586.3	5368.0	5336.2
10°	7623.1	7531.8	7218.2	6646.4	6158.1	5638.0	5181.4	4732.7	4391.3	4244.3	4212.6
12.5°	7615.2	7456.4	6932.3	6297.0	5590.3	4843.9	4180.8	3621.0	3283.5	3092.9	3049.3
15°	7492.1	7301.5	6610.7	5757.1	4780.3	3851.3	3128.7	2588.7	2330.6	2219.4	2251.2
17.5°	7504.0	7218.2	6289.1	5185.3	3982.3	2826.9	2136.1	1858.1	1790.6	1818.4	1818.4
20°	7492.1	7031.6	5900.0	4526.2	3049.3	1961.4	1568.3	1469.0	1512.7	1600.1	1580.2
22.5°	7428.6	6944.2	5542.7	3831.4	2243.3	1453.2	1258.6	1262.6	1330.1	1437.3	1461.1
25°	7476.2	6749.7	5090.0	3128.7	1635.8	1159.4	1091.9	1119.6	1191.1	1270.5	1286.4
27.5°	7440.5	6610.7	4617.6	2429.9	1195.1	996.6	992.6	1024.4	1056.1	1115.7	1115.7
30°	7480.2	6483.6	4153.0	1806.5	984.7	913.2	897.3	921.1	952.9	964.8	960.8
32.5°	7627.1	6388.4	3617.0	1349.9	869.5	833.8	833.8	833.8	829.8	845.7	849.7
35°	7948.7	6404.2	3144.5	1044.2	794.1	766.3	754.4	738.5	730.6	738.5	742.5
37.5°	8298.1	6396.3	2656.2	889.4	738.5	714.7	686.9	663.1	659.1	667.0	655.1
40°	8453.0	6471.7	2203.6	798.0	686.9	659.1	615.4	595.6	599.5	607.5	599.5
42.5°	8663.4	6495.6	1909.8	726.6	639.2	595.6	567.8	543.9	540.0	551.9	547.9
45°	8659.4	6360.6	1600.1	686.9	595.6	547.9	512.2	492.3	492.3	500.3	504.2
47.5°	8913.5	6340.7	1373.8	651.1	563.8	516.2	472.5	456.6	452.6	452.6	444.7
50°	9505.1	6618.6	1199.1	611.4	524.1	480.4	444.7	424.8	409.0	401.0	397.0
52.5°	10660.5	7484.2	1064.1	563.8	480.4	444.7	412.9	397.0	377.2	357.3	353.4
54°	11780.1	8377.5	1056.1	524.1	444.7	420.9	393.1	385.1	361.3	333.5	325.6
55°	12284.4	8897.6	1083.9	492.3	420.9	405.0	381.2	373.2	349.4	317.6	313.7
57.5°	12701.3	9100.1	1068.0	409.0	381.2	377.2	357.3	345.4	317.6	274.0	266.0
60°	10223.8	6880.7	766.3	361.3	349.4	341.5	325.6	317.6	281.9	234.3	230.3
62.5°	6459.8	3958.5	488.4	317.6	305.7	293.8	274.0	266.0	234.3	186.6	174.7
65°	2751.5	1639.8	329.5	281.9	262.0	242.2	226.3	214.4	186.6	139.0	135.0
67.5°	714.7	583.6	274.0	246.2	218.4	190.6	178.7	158.8	127.1	95.3	91.3
70°	321.6	293.8	230.3	206.5	174.7	146.9	131.0	111.2	83.4	63.5	59.6
72.5°	190.6	186.6	174.7	154.8	131.0	111.2	95.3	75.4	55.6	35.7	35.7
75°	119.1	115.1	119.1	107.2	91.3	83.4	71.5	51.6	31.8	15.9	15.9
77.5°	71.5	71.5	71.5	67.5	63.5	63.5	51.6	31.8	15.9	4.0	4.0
80°	55.6	55.6	59.6	55.6	55.6	55.6	43.7	23.8	7.9	0.0	0.0
82.5°	55.6	59.6	67.5	63.5	55.6	47.6	39.7	23.8	7.9	0.0	0.0
85°	15.9	11.9	19.9	27.8	39.7	35.7	27.8	19.9	7.9	0.0	0.0
87.5°	7.9	7.9	7.9	7.9	4.0	4.0	4.0	4.0	4.0	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)