

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: P530545

Luminaire Tested: **GALN-SA5D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530545
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-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 21064 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

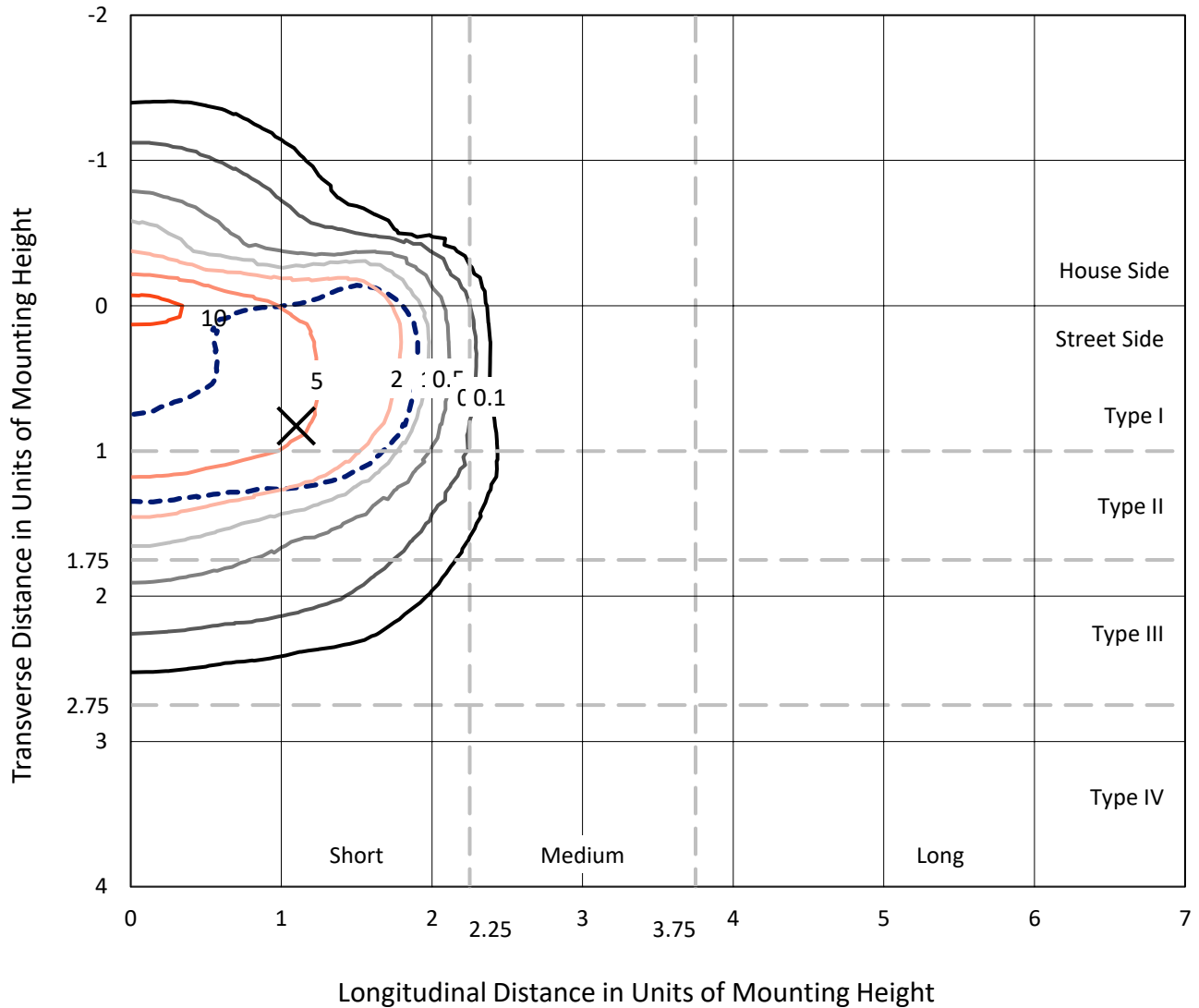
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

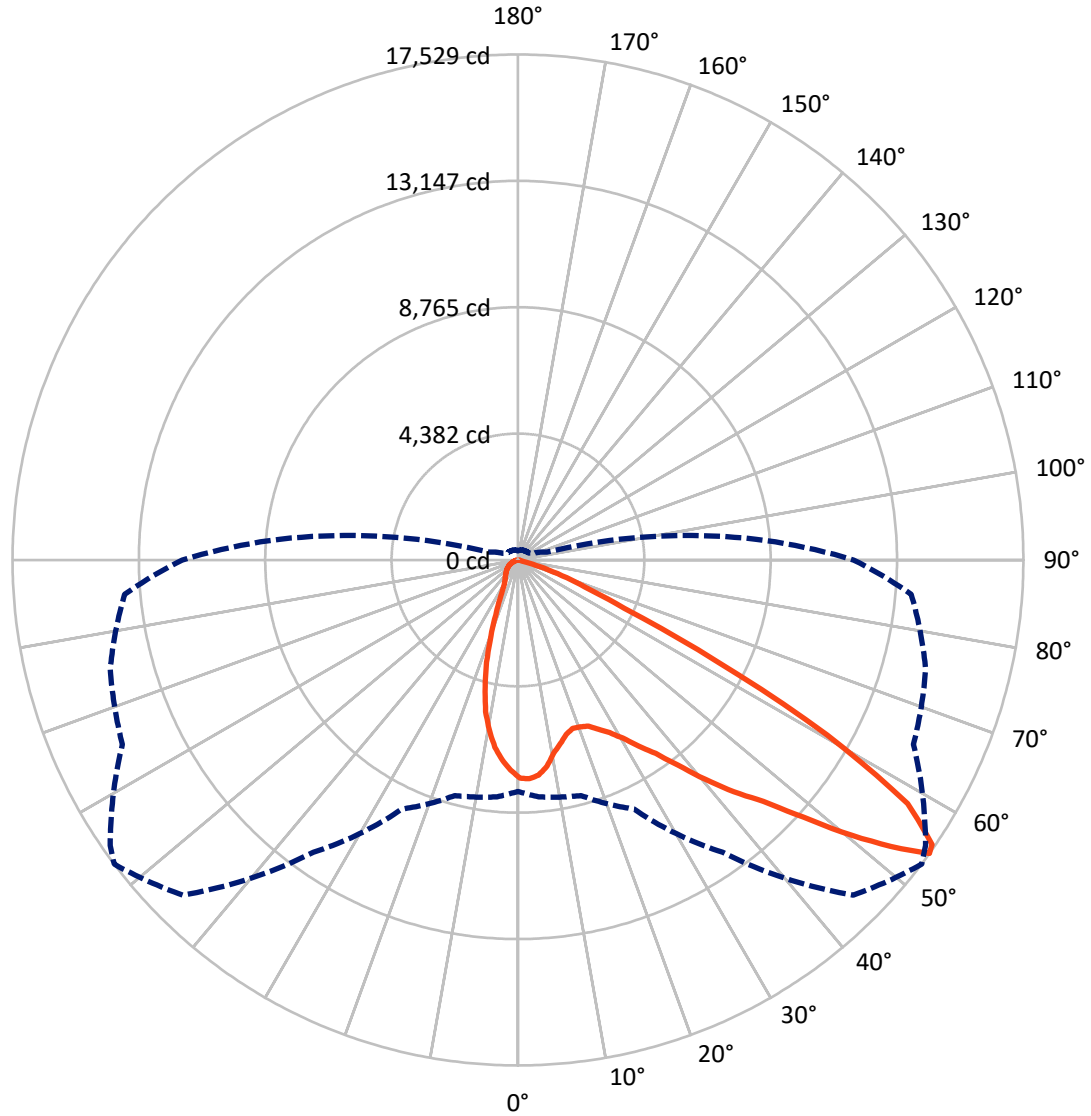
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	3485.1	0.0	3485.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	17578.9	0.0	17578.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	21064.0	0.0	21064.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	649.1	3.1
10°-20°	1488.2	7.1
20°-30°	2115.1	10.0
30°-40°	3264.2	15.5
40°-50°	5118.0	24.3
50°-60°	5945.2	28.2
60°-70°	2246.5	10.7
70°-80°	213.6	1.0
80°-90°	24.0	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°	21064.0	100.0
0°-180°	21064.0	100.0

Coefficient of Utilization



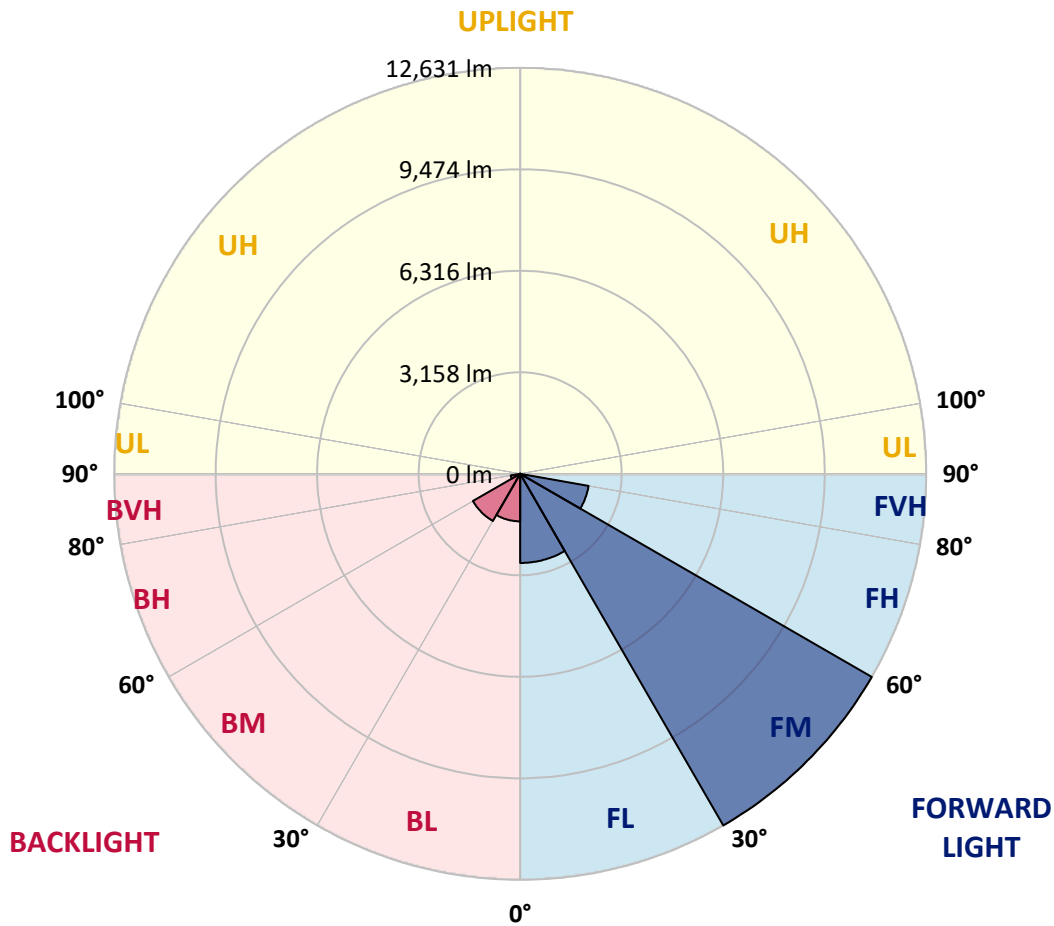
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2773.6	13.2			
FM (30°-60°)	12631.4	60.0			
FH (60°-80°)	2161.5	10.3			G2/5000
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1478.9	7.0	B3/2500		
BM (30°-60°)	1695.9	8.1	B2/2500		
BH (60°-80°)	298.6	1.4	B1/500		G1/500
BVH (80°-90°)	11.6	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°	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8
2.5°	7526.6	7459.9	7526.6	7534.4	7581.5	7624.7	7597.2	7660.0	7624.7	7585.5	7573.7
5°	6918.3	7008.6	7012.5	7153.8	7122.4	7381.4	7495.2	7463.8	7656.1	7644.3	7616.8
7.5°	6372.9	6337.6	6384.7	6549.5	6757.5	7055.7	7220.5	7216.6	7491.3	7687.5	7667.9
10°	5866.7	5862.7	5960.8	6090.3	6266.9	6580.9	6808.5	6922.3	7350.0	7648.2	7691.4
12.5°	5525.3	5509.6	5615.5	5721.5	6000.1	6243.4	6533.8	6588.7	7079.2	7510.9	7581.5
15°	5301.6	5336.9	5344.7	5548.8	5725.4	6047.2	6274.8	6388.6	6953.7	7401.0	7671.8
17.5°	5262.3	5309.4	5313.3	5482.1	5670.5	5941.2	6141.4	6294.4	6847.7	7456.0	7675.7
20°	5340.8	5313.3	5336.9	5442.8	5627.3	5886.3	6176.7	6227.7	6812.4	7483.4	7718.9
22.5°	5564.5	5556.6	5497.8	5584.1	5713.6	5984.4	6259.1	6337.6	6914.4	7624.7	7754.2
25°	5811.7	5854.9	5799.9	5788.2	5878.4	6145.3	6510.2	6612.3	7255.8	7879.8	7864.1
27.5°	6274.8	6231.6	6231.6	6176.7	6153.1	6282.6	6781.0	6949.7	7636.5	8209.4	7989.6
30°	6718.2	6765.3	6730.0	6749.6	6592.6	6580.9	7165.6	7373.5	8311.4	8711.7	8256.5
32.5°	7420.6	7357.9	7416.7	7365.7	7157.7	6945.8	7687.5	7903.3	9127.7	9288.6	8656.8
35°	8005.3	7977.9	8229.0	8221.2	7883.7	7675.7	8240.8	8562.6	9696.7	9979.2	9127.7
37.5°	8837.3	8786.3	9072.7	9210.1	8907.9	8597.9	9033.5	9406.3	10226.4	10532.5	9610.3
40°	9692.7	9822.2	10206.8	10434.4	10112.6	9700.6	10002.8	10116.6	10579.6	10893.5	9940.0
42.5°	10775.8	10964.2	11356.6	11552.8	11525.3	11078.0	10987.7	10983.8	10834.7	10791.5	10183.3
45°	11815.7	11745.1	12349.4	12777.2	13122.5	12993.0	11937.4	11819.7	11238.9	10944.6	10246.1
47.5°	12270.9	12247.4	12659.4	13420.7	14598.0	14758.9	13318.7	12863.5	11921.7	11588.1	10587.5
50°	11682.3	11804.0	12212.1	13055.8	14860.9	16089.2	15013.9	14401.8	12718.3	12373.0	11395.8
52.5°	9759.5	9841.9	10230.4	11301.7	13966.2	16874.0	16638.6	16285.4	14182.0	13609.1	12804.6
54°	8025.0	8244.7	8456.6	9531.9	12373.0	16438.4	17529.3	17258.6	15135.6	14637.2	13691.5
55°	6989.0	7118.5	7271.5	8342.8	11270.3	15700.7	17427.3	17450.9	15775.2	14959.0	14288.0
57.5°	5105.4	5195.6	5038.7	5513.5	7738.5	12749.7	15940.0	16575.8	16638.6	15441.7	14652.9
60°	3900.6	3939.9	3763.3	3837.9	4811.1	8750.9	12329.8	13095.0	15010.0	13495.3	12412.2
62.5°	3025.5	3033.4	3029.5	3159.0	3315.9	5148.5	7711.0	8389.9	10348.1	9582.9	8429.2
65°	2228.9	2193.6	2256.4	2648.8	2829.3	3237.5	4061.5	4556.0	5623.4	4748.3	3394.4
67.5°	1444.1	1455.9	1518.7	1969.9	2425.1	2484.0	2499.7	2460.5	2464.4	1357.8	851.5
70°	867.2	886.9	867.2	1114.5	1734.5	1781.6	1628.5	1589.3	1240.0	321.8	317.9
72.5°	514.1	486.6	435.6	478.8	722.1	863.3	777.0	773.1	486.6	188.4	188.4
75°	215.8	196.2	160.9	145.2	192.3	184.4	184.4	164.8	129.5	125.6	117.7
77.5°	43.2	43.2	31.4	35.3	47.1	54.9	66.7	66.7	78.5	78.5	74.6
80°	0.0	3.9	11.8	23.5	35.3	51.0	58.9	58.9	66.7	66.7	54.9
82.5°	0.0	3.9	11.8	23.5	31.4	47.1	58.9	58.9	66.7	70.6	58.9
85°	0.0	3.9	11.8	19.6	31.4	39.2	39.2	35.3	27.5	23.5	15.7
87.5°	0.0	0.0	3.9	7.8	3.9	7.8	7.8	7.8	7.8	7.8	7.8
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°	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8	7565.8
2.5°	7601.2	7597.2	7503.0	7350.0	7314.7	7185.2	7169.5	7091.0	7134.2	6989.0	6973.3
5°	7538.4	7491.3	7377.5	7279.4	6992.9	6788.8	6628.0	6431.7	6317.9	6337.6	6263.0
7.5°	7628.6	7507.0	7306.8	6965.4	6616.2	6259.1	6066.8	5666.5	5521.3	5305.5	5274.1
10°	7534.4	7444.2	7134.2	6569.1	6086.4	5572.3	5121.1	4677.6	4340.2	4195.0	4163.6
12.5°	7526.6	7369.6	6851.6	6223.8	5525.3	4787.5	4132.2	3578.9	3245.3	3056.9	3013.8
15°	7404.9	7216.6	6533.8	5690.1	4724.7	3806.5	3092.3	2558.6	2303.5	2193.6	2225.0
17.5°	7416.7	7134.2	6215.9	5125.0	3936.0	2794.0	2111.2	1836.5	1769.8	1797.3	1797.3
20°	7404.9	6949.7	5831.3	4473.6	3013.8	1938.5	1550.1	1451.9	1495.1	1581.4	1561.8
22.5°	7342.2	6863.4	5478.2	3786.8	2217.2	1436.3	1244.0	1247.9	1314.6	1420.6	1444.1
25°	7389.2	6671.1	5030.8	3092.3	1616.8	1145.9	1079.2	1106.6	1177.3	1255.7	1271.4
27.5°	7353.9	6533.8	4563.8	2401.6	1181.2	985.0	981.0	1012.4	1043.8	1102.7	1102.7
30°	7393.2	6408.2	4104.7	1785.5	973.2	902.6	886.9	910.4	941.8	953.6	949.7
32.5°	7538.4	6314.0	3574.9	1334.2	859.4	824.1	824.1	824.1	820.2	835.9	839.8
35°	7856.2	6329.7	3108.0	1032.1	784.8	757.4	745.6	729.9	722.1	729.9	733.8
37.5°	8201.6	6321.9	2625.3	879.0	729.9	706.4	678.9	655.3	651.4	659.3	647.5
40°	8354.6	6396.4	2177.9	788.8	678.9	651.4	608.2	588.6	592.6	600.4	592.6
42.5°	8562.6	6420.0	1887.5	718.1	631.8	588.6	561.2	537.6	533.7	545.5	541.5
45°	8558.7	6286.5	1581.4	678.9	588.6	541.5	506.2	486.6	486.6	494.4	498.4
47.5°	8809.8	6266.9	1357.8	643.6	557.2	510.1	467.0	451.3	447.4	447.4	439.5
50°	9394.5	6541.6	1185.1	604.3	518.0	474.8	439.5	419.9	404.2	396.3	392.4
52.5°	10536.4	7397.1	1051.7	557.2	474.8	439.5	408.1	392.4	372.8	353.2	349.3
54°	11643.1	8280.0	1043.8	518.0	439.5	416.0	388.5	380.6	357.1	329.6	321.8
55°	12141.4	8794.1	1071.3	486.6	416.0	400.3	376.7	368.9	345.3	313.9	310.0
57.5°	12553.5	8994.2	1055.6	404.2	376.7	372.8	353.2	341.4	313.9	270.8	262.9
60°	10104.8	6800.6	757.4	357.1	345.3	337.5	321.8	313.9	278.6	231.5	227.6
62.5°	6384.7	3912.4	482.7	313.9	302.2	290.4	270.8	262.9	231.5	184.4	172.7
65°	2719.5	1620.7	325.7	278.6	259.0	239.4	223.7	211.9	184.4	137.3	133.4
67.5°	706.4	576.9	270.8	243.3	215.8	188.4	176.6	157.0	125.6	94.2	90.3
70°	317.9	290.4	227.6	204.1	172.7	145.2	129.5	109.9	82.4	62.8	58.9
72.5°	188.4	184.4	172.7	153.0	129.5	109.9	94.2	74.6	54.9	35.3	35.3
75°	117.7	113.8	117.7	106.0	90.3	82.4	70.6	51.0	31.4	15.7	15.7
77.5°	70.6	70.6	70.6	66.7	62.8	62.8	51.0	31.4	15.7	3.9	3.9
80°	54.9	54.9	58.9	54.9	54.9	54.9	43.2	23.5	7.8	0.0	0.0
82.5°	54.9	58.9	66.7	62.8	54.9	47.1	39.2	23.5	7.8	0.0	0.0
85°	15.7	11.8	19.6	27.5	39.2	35.3	27.5	19.6	7.8	0.0	0.0
87.5°	7.8	7.8	7.8	7.8	3.9	3.9	3.9	3.9	3.9	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)