

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: P457999

Luminaire Tested: **GALN-SA9B-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31369 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

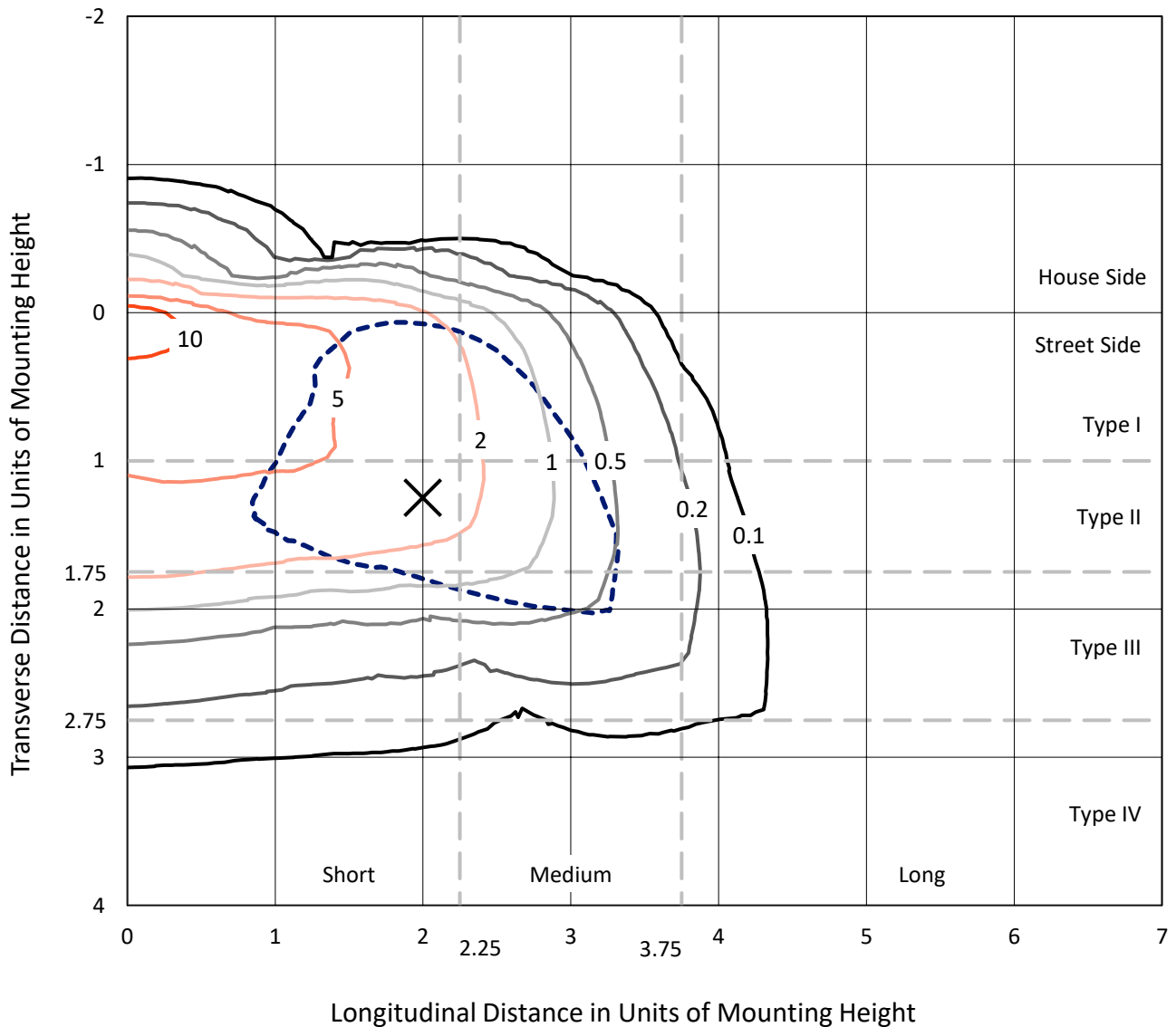
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

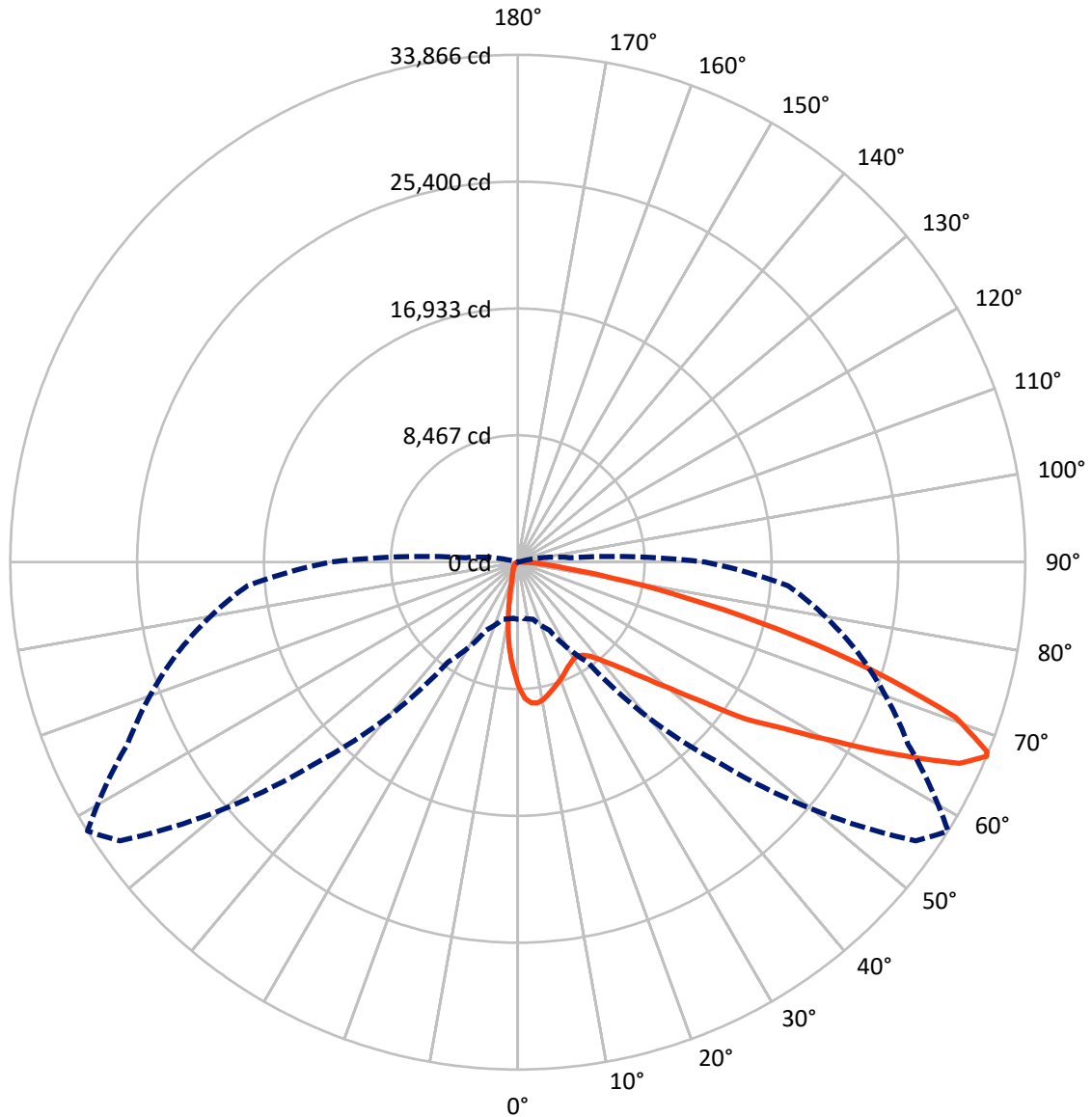
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2263.8	0.0	2263.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29105.2	0.0	29105.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	31369.0	0.0	31369.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	674.8	2.2
10°-20°	1457.4	4.6
20°-30°	1974.9	6.3
30°-40°	2739.0	8.7
40°-50°	4368.4	13.9
50°-60°	7551.2	24.1
60°-70°	8625.8	27.5
70°-80°	3596.2	11.5
80°-90°	381.3	1.2
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°	31369.0	100.0
0°-180°	31369.0	100.0

Coefficient of Utilization



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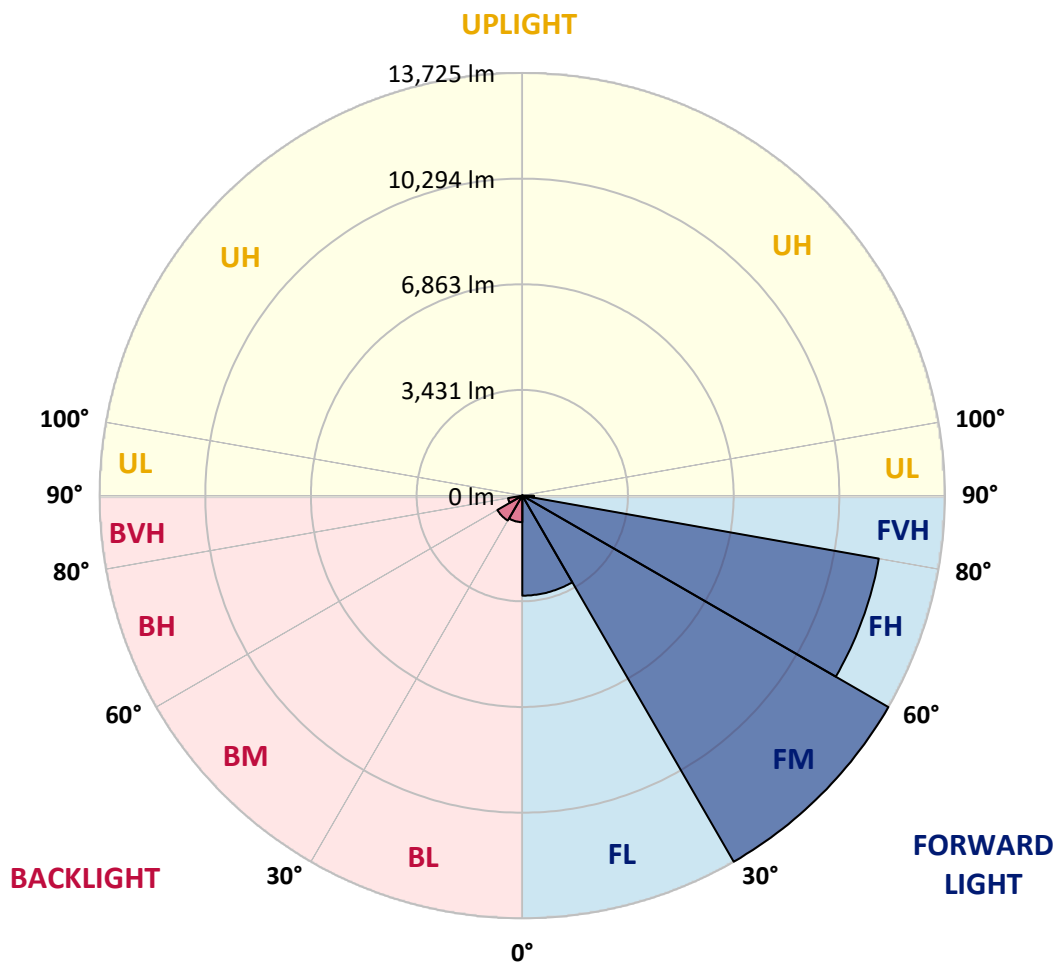
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3247.4	10.4			
FM (30°-60°)	13725.2	43.8			
FH (60°-80°)	11754.0	37.5			G4/12000
FVH (80°-90°)	378.5	1.2			G3/500
BL (0°-30°)	859.6	2.7	B2/1000		
BM (30°-60°)	933.4	3.0	B1/1000		
BH (60°-80°)	468.0	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6
2.5°	9650.9	9665.6	9611.1	9567.1	9453.9	9332.3	9170.9	9084.9	8938.2	8684.6	8403.7
5°	9877.3	9896.2	9887.8	9877.3	9833.3	9715.9	9510.5	9435.0	9219.1	8806.1	8298.9
7.5°	9374.2	9443.4	9451.8	9533.5	9611.1	9621.6	9544.0	9487.4	9288.3	8804.0	8112.3
10°	8707.6	8753.7	8820.8	8915.1	9101.7	9256.8	9332.3	9323.9	9208.6	8739.1	7894.3
12.5°	8034.7	8059.9	8162.6	8324.0	8552.5	8816.6	9017.9	9057.7	9059.8	8661.5	7711.9
15°	7456.2	7445.7	7525.4	7711.9	8032.6	8363.8	8724.4	8787.3	8887.9	8586.0	7542.1
17.5°	6961.5	7016.0	7028.6	7234.0	7529.6	7959.3	8418.3	8529.4	8730.7	8521.1	7401.7
20°	6655.4	6684.8	6712.0	6827.3	7093.5	7546.3	8131.2	8284.2	8583.9	8462.4	7244.5
22.5°	6565.3	6584.2	6561.1	6596.7	6785.4	7187.9	7818.8	8022.2	8443.5	8407.9	7116.6
25°	6634.5	6653.3	6598.8	6556.9	6621.9	6896.5	7517.0	7764.3	8330.3	8397.4	7020.2
27.5°	6802.2	6837.8	6762.3	6686.9	6649.2	6739.3	7280.1	7567.3	8252.7	8447.7	6976.2
30°	7064.2	7085.2	7028.6	6936.3	6850.4	6760.3	7156.4	7431.0	8231.8	8565.1	6972.0
32.5°	7349.3	7393.3	7361.9	7301.1	7190.0	6976.2	7192.1	7435.2	8282.1	8734.9	7024.4
35°	7701.4	7751.8	7781.1	7768.5	7626.0	7359.8	7418.5	7623.9	8416.3	9047.2	7166.9
37.5°	8047.3	8091.3	8256.9	8313.5	8187.8	7936.2	7858.7	7994.9	8711.8	9456.0	7424.7
40°	8443.5	8502.2	8734.9	8950.8	8890.0	8625.9	8483.3	8596.5	9164.6	10072.3	7913.2
42.5°	8822.9	8927.7	9282.0	9663.5	9720.1	9424.5	9330.2	9367.9	9835.4	10958.9	8594.4
45°	9361.6	9460.2	9917.1	10434.9	10701.1	10470.5	10374.1	10367.8	10755.6	12206.2	9699.1
47.5°	10139.3	10227.4	10766.1	11277.6	11751.3	11782.8	11600.4	11663.3	11912.7	13665.1	11053.3
50°	11093.1	11300.6	11654.9	12187.3	12820.4	13331.8	13388.4	13304.6	13518.4	15354.7	12679.9
52.5°	12478.7	12558.3	12883.3	13321.4	14063.4	14931.2	15604.1	15488.8	15421.8	16964.6	14323.3
55°	13512.1	13619.0	14124.2	14725.8	15813.7	16958.3	18417.2	18457.1	17610.2	18511.6	15931.1
57.5°	13199.8	13363.3	14128.4	15337.9	17729.7	19821.7	20907.5	20934.8	19635.1	20014.5	17746.4
60°	11596.2	11673.7	12770.1	14384.1	17893.2	22924.1	24439.6	24219.5	21695.7	21695.7	19350.0
62.5°	8223.4	8345.0	9233.8	11608.8	16159.6	24001.5	28669.8	28214.9	24533.9	23303.5	20305.9
65°	5255.2	5137.8	5726.8	7328.3	12038.5	22410.5	32352.8	32380.0	27204.5	23947.0	19784.0
67°	3806.7	3760.6	3930.4	5009.9	8162.6	18838.6	32430.3	33866.2	28738.9	23540.3	18115.4
67.5°	3481.8	3517.4	3641.1	4519.4	7416.4	17142.7	32078.2	33778.2	29084.8	23295.1	17511.7
70°	2639.1	2578.3	2712.5	3196.7	4446.0	10814.3	27594.4	30979.8	28655.1	20861.4	13992.1
72.5°	1941.1	1934.8	2121.4	2614.0	3423.1	5760.4	20714.7	24840.0	23410.4	15885.0	8810.3
75°	1310.1	1368.8	1666.5	2184.2	3102.4	3735.4	14122.1	18021.0	16251.9	9020.0	3601.3
77.5°	746.2	750.4	1073.3	1754.5	2785.9	3006.0	8368.0	11480.9	8602.8	2999.7	1069.1
80°	322.8	354.3	532.4	1274.5	2310.0	2662.2	4798.2	6309.6	3479.7	635.1	345.9
82.5°	119.5	140.4	234.8	784.0	1685.3	2192.6	2899.0	3012.2	1180.2	224.3	215.9
85°	0.0	4.2	85.9	366.8	878.3	978.9	1936.9	1786.0	522.0	106.9	140.4
87.5°	0.0	0.0	0.0	37.7	115.3	364.7	601.6	670.8	125.8	37.7	33.5
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°	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6	8315.6
2.5°	8252.7	8116.5	7774.8	7433.1	7179.5	6967.8	6649.2	6475.2	6382.9	6246.7	6255.1
5°	8045.2	7768.5	7166.9	6544.3	6041.3	5550.7	4963.8	4726.9	4527.8	4414.6	4339.1
7.5°	7737.1	7328.3	6437.4	5607.3	4833.8	3976.5	3333.0	2903.2	2614.0	2507.1	2404.3
10°	7399.6	6856.7	5697.5	4546.7	3473.4	2588.8	2043.8	1649.7	1509.3	1379.3	1391.9
12.5°	7087.3	6427.0	5018.3	3588.7	2433.7	1645.5	1282.9	1121.5	1075.4	1060.7	1060.7
15°	6831.5	6016.1	4288.8	2697.8	1668.6	1182.3	1027.1	983.1	966.3	962.2	962.2
17.5°	6559.0	5626.2	3630.6	1993.5	1213.7	989.4	937.0	907.7	901.4	897.2	897.2
20°	6315.9	5234.2	3006.0	1484.1	981.0	890.9	857.3	838.5	832.2	828.0	830.1
22.5°	6085.3	4886.2	2419.0	1121.5	863.6	811.2	777.7	758.8	746.2	735.8	737.9
25°	5879.8	4550.9	1945.3	918.1	777.7	731.6	698.0	670.8	643.5	631.0	628.9
27.5°	5735.2	4257.4	1515.6	786.1	700.1	649.8	607.9	574.4	538.7	519.9	515.7
30°	5615.7	3959.7	1199.0	693.8	622.6	574.4	522.0	473.7	436.0	417.1	408.8
32.5°	5538.2	3676.7	945.4	618.4	557.6	498.9	440.2	392.0	350.1	331.2	327.0
35°	5525.6	3439.9	773.5	555.5	498.9	436.0	375.2	322.8	287.2	268.3	264.1
37.5°	5615.7	3257.5	647.7	505.2	450.7	381.5	314.4	266.2	234.8	220.1	218.0
40°	5856.8	3142.2	561.8	463.3	406.7	331.2	268.3	226.4	194.9	180.3	180.3
42.5°	6315.9	3146.4	505.2	423.4	362.6	283.0	228.5	188.7	161.4	148.8	144.6
45°	7032.8	3288.9	457.0	383.6	320.7	245.3	194.9	155.1	127.9	117.4	117.4
47.5°	7992.8	3571.9	415.0	343.8	283.0	209.6	165.6	125.8	102.7	92.2	92.2
50°	9248.4	4026.8	379.4	310.2	251.5	180.3	134.2	102.7	79.7	71.3	69.2
52.5°	10560.7	4588.6	337.5	280.9	215.9	153.0	109.0	79.7	60.8	54.5	52.4
55°	12009.1	5137.8	297.7	251.5	176.1	127.9	85.9	62.9	44.0	37.7	37.7
57.5°	13470.2	5676.5	249.4	209.6	138.3	94.3	67.1	46.1	29.3	23.1	23.1
60°	14707.0	5850.5	211.7	169.8	104.8	67.1	48.2	29.3	16.8	10.5	10.5
62.5°	14876.7	5263.6	178.2	130.0	75.5	46.1	25.2	16.8	6.3	4.2	4.2
65°	13954.4	4276.3	148.8	98.5	50.3	23.1	10.5	6.3	2.1	0.0	0.0
67°	12503.8	3467.1	121.6	73.4	35.6	14.7	6.3	2.1	0.0	0.0	0.0
67.5°	12132.8	3305.7	117.4	69.2	31.4	12.6	4.2	2.1	0.0	0.0	0.0
70°	9521.0	2475.6	83.8	41.9	18.9	8.4	0.0	0.0	0.0	0.0	0.0
72.5°	5917.6	1400.3	60.8	25.2	12.6	4.2	0.0	0.0	0.0	0.0	0.0
75°	2236.6	490.5	41.9	16.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	695.9	186.6	25.2	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	234.8	71.3	16.8	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	144.6	29.3	10.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.1	12.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.8	4.2	2.1	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)