

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: P457071

Luminaire Tested: **GALN-SA8B-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457071
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-SA8B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 27941 lumens
Efficiency: N/A
Efficacy: 86.0 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

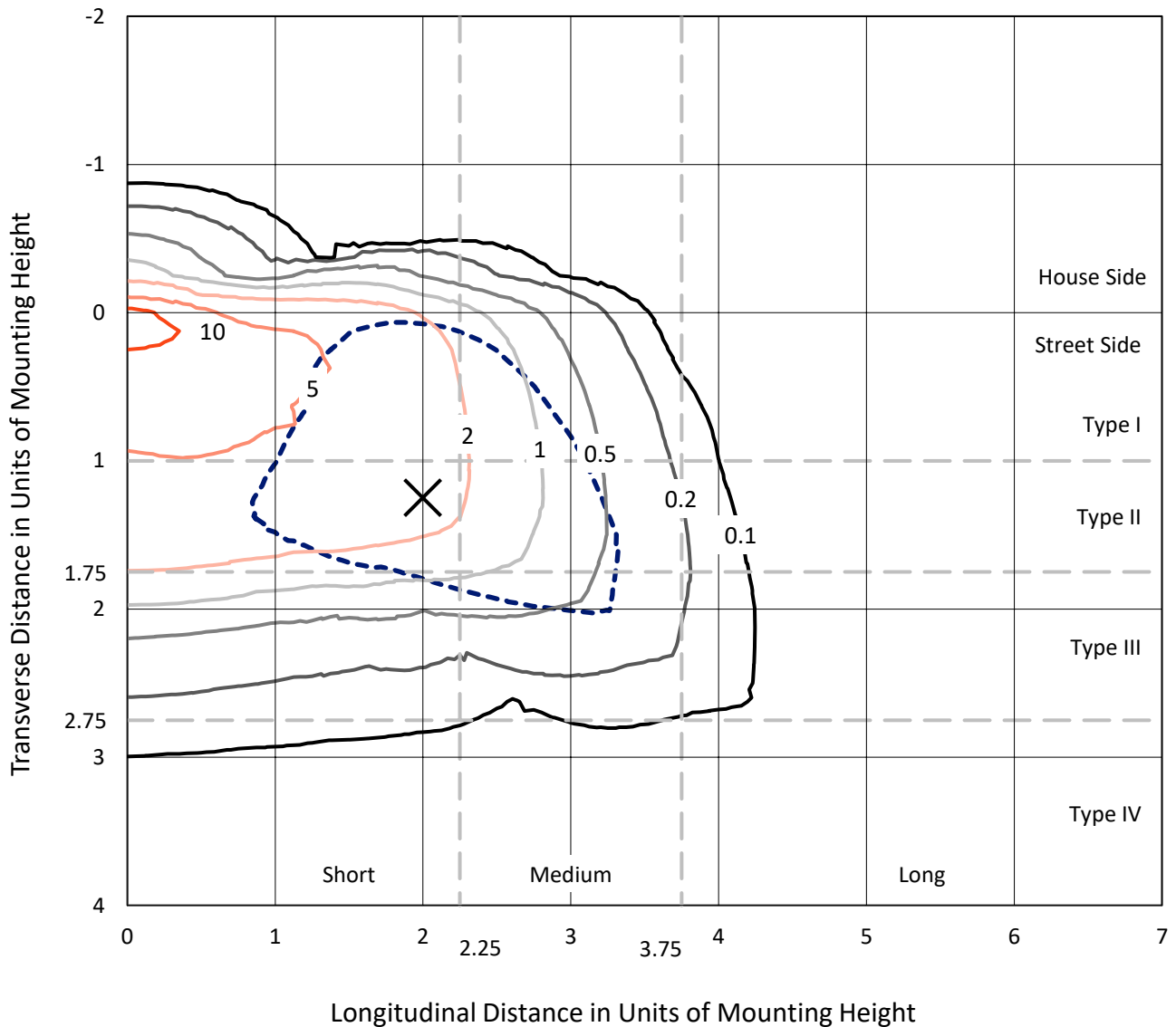
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

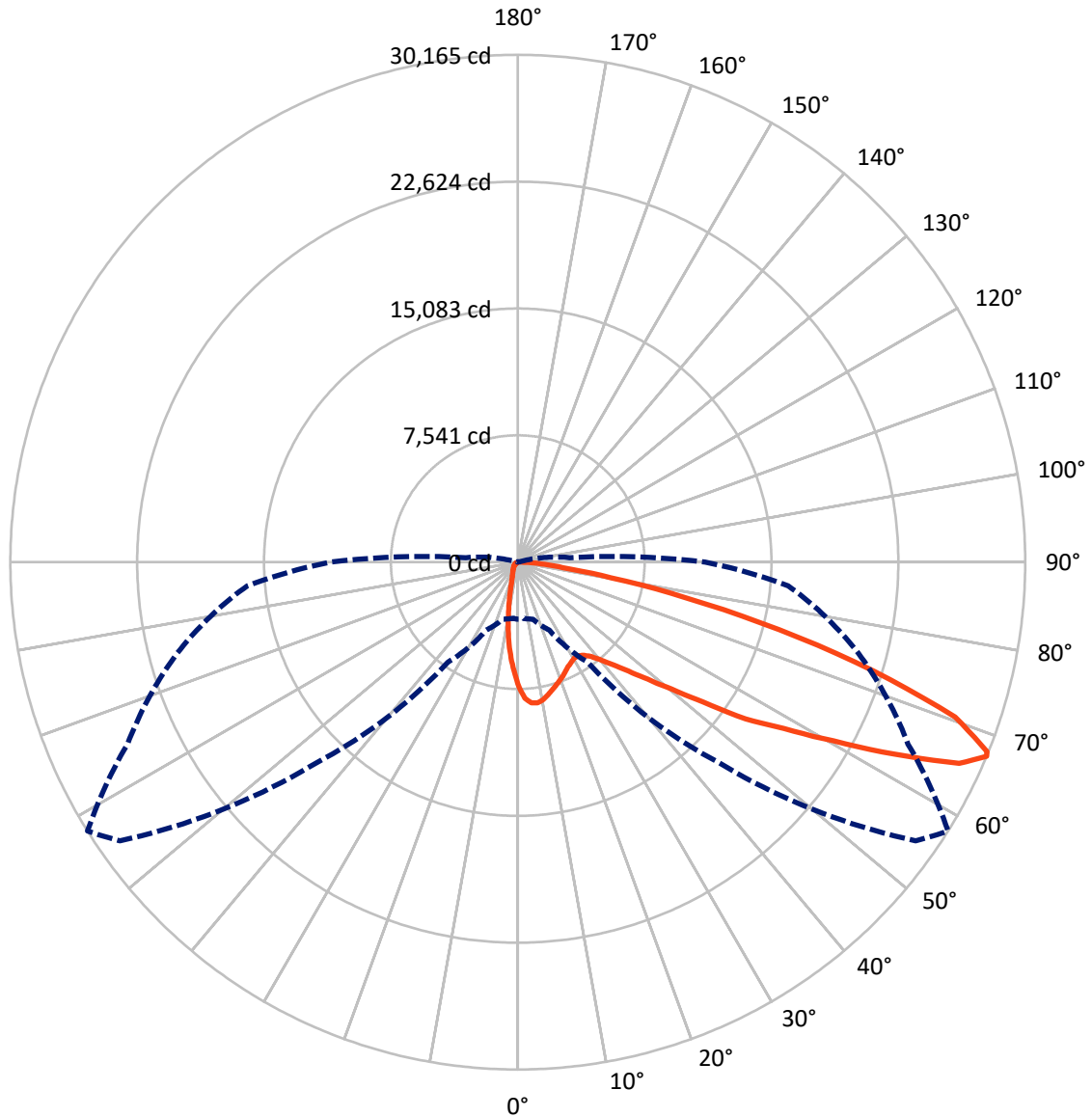
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	2016.4	0.0	2016.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	25924.6	0.0	25924.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	27941.0	0.0	27941.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.1	2.2
10°-20°	1298.1	4.6
20°-30°	1759.1	6.3
30°-40°	2439.7	8.7
40°-50°	3891.1	13.9
50°-60°	6726.0	24.1
60°-70°	7683.2	27.5
70°-80°	3203.2	11.5
80°-90°	339.6	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°	27941.0	100.0
0°-180°	27941.0	100.0



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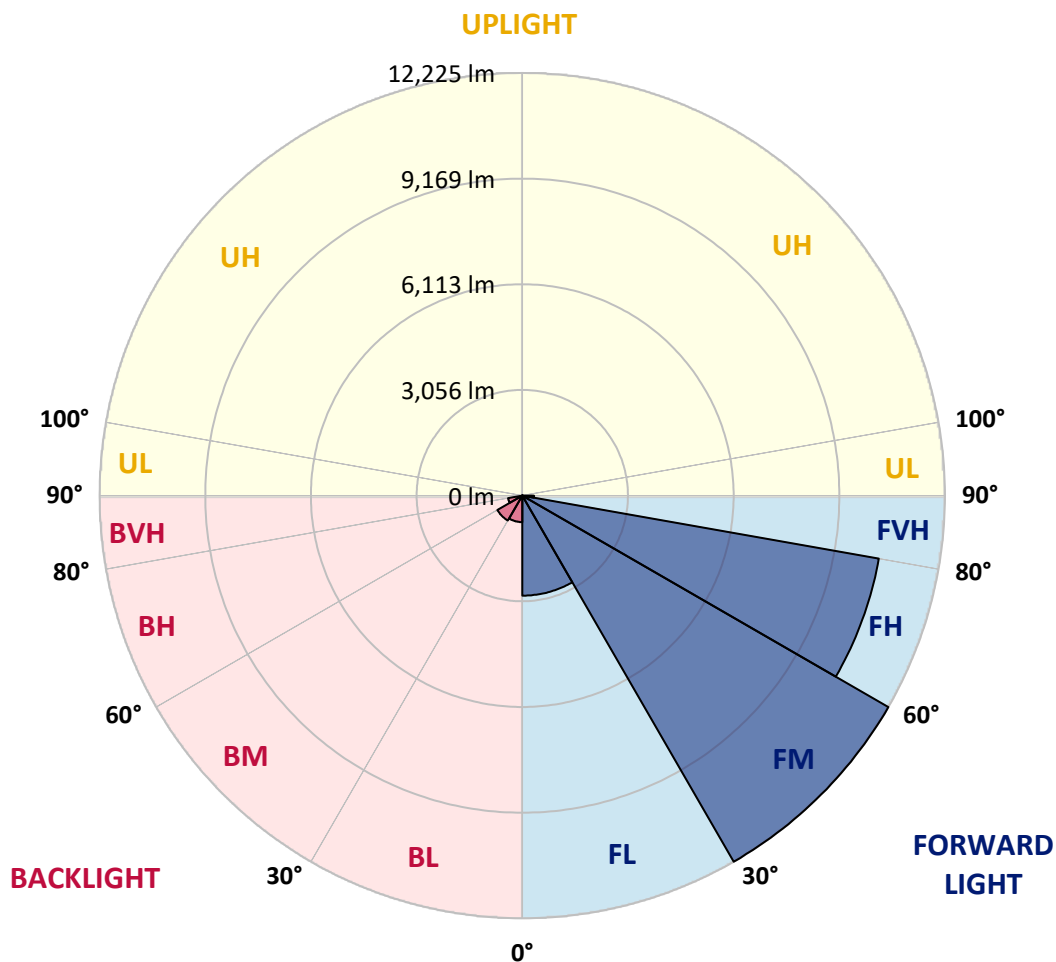
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2892.6	10.4			
FM (30°-60°)	12225.4	43.8			
FH (60°-80°)	10469.5	37.5			G4/12000
FVH (80°-90°)	337.2	1.2			G3/500
BL (0°-30°)	765.7	2.7	B2/1000		
BM (30°-60°)	831.4	3.0	B1/1000		
BH (60°-80°)	416.8	1.5	B1/500		G1/500
BVH (80°-90°)	2.5	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°	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9
2.5°	8596.3	8609.3	8560.8	8521.6	8420.8	8312.5	8168.7	8092.1	7961.4	7735.5	7485.3
5°	8797.9	8814.7	8807.2	8797.9	8758.7	8654.1	8471.2	8403.9	8211.6	7843.8	7392.0
7.5°	8349.8	8411.4	8418.9	8491.7	8560.8	8570.1	8501.0	8450.6	8273.3	7841.9	7225.8
10°	7756.1	7797.1	7856.9	7940.9	8107.1	8245.2	8312.5	8305.0	8202.3	7784.1	7031.6
12.5°	7156.7	7179.1	7270.6	7414.4	7617.9	7853.1	8032.4	8067.9	8069.7	7715.0	6869.2
15°	6641.4	6632.0	6703.0	6869.2	7154.8	7449.8	7771.0	7827.0	7916.6	7647.8	6717.9
17.5°	6200.7	6249.3	6260.5	6443.5	6706.7	7089.5	7498.4	7597.3	7776.6	7589.9	6592.8
20°	5928.1	5954.3	5978.5	6081.2	6318.4	6721.7	7242.6	7378.9	7645.9	7537.6	6452.8
22.5°	5847.8	5864.7	5844.1	5875.9	6043.9	6402.4	6964.4	7145.5	7520.8	7489.1	6338.9
25°	5909.5	5926.3	5877.7	5840.4	5898.3	6142.9	6695.5	6915.8	7420.0	7479.7	6253.0
27.5°	6058.8	6090.6	6023.4	5956.1	5922.5	6002.8	6484.5	6740.3	7350.9	7524.5	6213.8
30°	6292.2	6310.9	6260.5	6178.3	6101.8	6021.5	6374.4	6619.0	7332.2	7629.1	6210.1
32.5°	6546.2	6585.4	6557.4	6503.2	6404.3	6213.8	6406.1	6622.7	7377.0	7780.3	6256.8
35°	6859.8	6904.6	6930.8	6919.6	6792.6	6555.5	6607.8	6790.7	7496.5	8058.5	6383.7
37.5°	7167.9	7207.1	7354.6	7405.0	7293.0	7069.0	6999.9	7121.2	7759.8	8422.6	6613.4
40°	7520.8	7573.1	7780.3	7972.6	7918.5	7683.2	7556.3	7657.1	8163.1	8971.6	7048.4
42.5°	7858.7	7952.1	8267.6	8607.5	8657.9	8394.6	8310.6	8344.2	8760.6	9761.4	7655.2
45°	8338.6	8426.4	8833.4	9294.6	9531.7	9326.3	9240.4	9234.8	9580.2	10872.3	8639.2
47.5°	9031.3	9109.7	9589.6	10045.2	10467.1	10495.1	10332.7	10388.7	10610.9	12171.8	9845.4
50°	9880.8	10065.7	10381.2	10855.5	11419.4	11874.9	11925.4	11850.7	12041.1	13676.7	11294.3
52.5°	11115.0	11186.0	11475.4	11865.6	12526.6	13299.6	13898.9	13796.2	13736.5	15110.7	12758.1
55°	12035.5	12130.7	12580.7	13116.6	14085.6	15105.1	16404.6	16440.1	15685.8	16488.6	14190.2
57.5°	11757.3	11903.0	12584.5	13661.8	15792.2	17655.6	18622.7	18647.0	17489.4	17827.4	15807.1
60°	10329.0	10398.0	11374.6	12812.2	15937.8	20418.9	21768.9	21572.8	19324.8	19324.8	17235.5
62.5°	7324.7	7433.0	8224.7	10340.2	14393.7	21378.6	25536.7	25131.6	21852.9	20756.9	18086.9
65°	4680.9	4576.3	5101.0	6527.5	10722.9	19961.5	28817.3	28841.5	24231.6	21330.1	17622.0
67°	3390.7	3349.6	3500.9	4462.4	7270.6	16779.9	28886.4	30165.3	25598.3	20967.9	16135.7
67.5°	3101.3	3133.0	3243.2	4025.5	6605.9	15269.4	28572.7	30086.9	25906.4	20749.4	15598.0
70°	2350.7	2296.6	2416.1	2847.4	3960.2	9632.5	24578.9	27594.3	25523.7	18581.7	12463.1
72.5°	1729.0	1723.4	1889.5	2328.3	3049.0	5130.9	18451.0	22125.5	20852.1	14149.1	7847.5
75°	1167.0	1219.2	1484.4	1945.5	2763.4	3327.2	12578.9	16051.7	14475.9	8034.3	3207.7
77.5°	664.7	668.4	956.0	1562.8	2481.4	2677.5	7453.6	10226.3	7662.7	2671.9	952.2
80°	287.5	315.5	474.3	1135.2	2057.6	2371.3	4273.9	5620.1	3099.4	565.7	308.1
82.5°	106.4	125.1	209.1	698.3	1501.2	1953.0	2582.2	2683.1	1051.2	199.8	192.3
85°	0.0	3.7	76.6	326.7	782.3	871.9	1725.2	1590.8	464.9	95.2	125.1
87.5°	0.0	0.0	0.0	33.6	102.7	324.9	535.9	597.5	112.0	33.6	29.9
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°	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9	7406.9
2.5°	7350.9	7229.5	6925.2	6620.8	6394.9	6206.3	5922.5	5767.6	5685.4	5564.0	5571.5
5°	7166.0	6919.6	6383.7	5829.2	5381.1	4944.2	4421.4	4210.4	4033.0	3932.2	3865.0
7.5°	6891.6	6527.5	5734.0	4994.6	4305.6	3541.9	2968.7	2586.0	2328.3	2233.1	2141.6
10°	6591.0	6107.4	5074.9	4049.8	3093.8	2305.9	1820.5	1469.4	1344.3	1228.6	1239.8
12.5°	6312.8	5724.6	4469.9	3196.5	2167.7	1465.7	1142.7	998.9	957.8	944.8	944.8
15°	6085.0	5358.7	3820.1	2403.0	1486.2	1053.1	914.9	875.7	860.7	857.0	857.0
17.5°	5842.2	5011.4	3233.9	1775.6	1081.1	881.3	834.6	808.5	802.9	799.1	799.1
20°	5625.7	4662.2	2677.5	1321.9	873.8	793.5	763.7	746.9	741.3	737.5	739.4
22.5°	5420.3	4352.3	2154.7	998.9	769.3	722.6	692.7	675.9	664.7	655.4	657.2
25°	5237.3	4053.5	1732.7	817.8	692.7	651.6	621.8	597.5	573.2	562.0	560.1
27.5°	5108.5	3792.1	1349.9	700.2	623.6	578.8	541.5	511.6	479.9	463.0	459.3
30°	5002.0	3527.0	1068.0	618.0	554.5	511.6	464.9	422.0	388.4	371.6	364.1
32.5°	4933.0	3274.9	842.1	550.8	496.7	444.4	392.1	349.2	311.8	295.0	291.3
35°	4921.8	3064.0	689.0	494.8	444.4	388.4	334.2	287.5	255.8	239.0	235.3
37.5°	5002.0	2901.5	576.9	450.0	401.4	339.8	280.1	237.1	209.1	196.0	194.2
40°	5216.8	2798.8	500.4	412.6	362.2	295.0	239.0	201.6	173.6	160.6	160.6
42.5°	5625.7	2802.6	450.0	377.2	323.0	252.1	203.5	168.0	143.8	132.6	128.8
45°	6264.2	2929.5	407.0	341.7	285.7	218.5	173.6	138.2	113.9	104.6	104.6
47.5°	7119.4	3181.6	369.7	306.2	252.1	186.7	147.5	112.0	91.5	82.2	82.2
50°	8237.8	3586.8	338.0	276.3	224.1	160.6	119.5	91.5	71.0	63.5	61.6
52.5°	9406.6	4087.1	300.6	250.2	192.3	136.3	97.1	71.0	54.1	48.5	46.7
55°	10696.8	4576.3	265.1	224.1	156.8	113.9	76.6	56.0	39.2	33.6	33.6
57.5°	11998.2	5056.2	222.2	186.7	123.2	84.0	59.7	41.1	26.1	20.5	20.5
60°	13099.8	5211.2	188.6	151.2	93.4	59.7	42.9	26.1	14.9	9.3	9.3
62.5°	13251.0	4688.4	158.7	115.8	67.2	41.1	22.4	14.9	5.6	3.7	3.7
65°	12429.5	3808.9	132.6	87.8	44.8	20.5	9.3	5.6	1.9	0.0	0.0
67°	11137.4	3088.2	108.3	65.3	31.7	13.1	5.6	1.9	0.0	0.0	0.0
67.5°	10806.9	2944.5	104.6	61.6	28.0	11.2	3.7	1.9	0.0	0.0	0.0
70°	8480.5	2205.1	74.7	37.3	16.8	7.5	0.0	0.0	0.0	0.0	0.0
72.5°	5270.9	1247.2	54.1	22.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0
75°	1992.2	436.9	37.3	14.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	619.9	166.2	22.4	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	209.1	63.5	14.9	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	128.8	26.1	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	80.3	11.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.9	3.7	1.9	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)