

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: P647660

Luminaire Tested: **GALN-SA9D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647660
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-SA9D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA 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: 45424.2 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

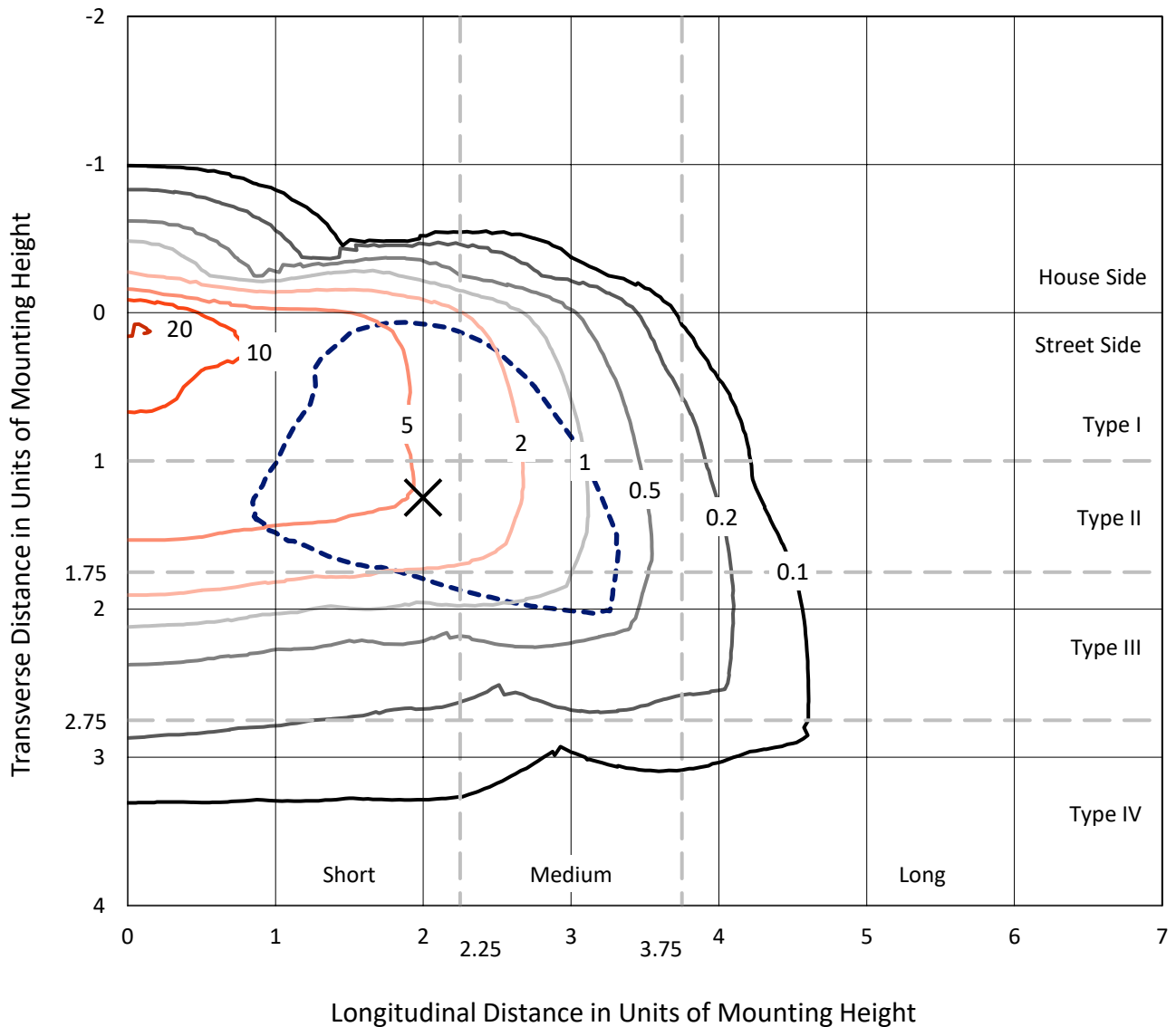
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

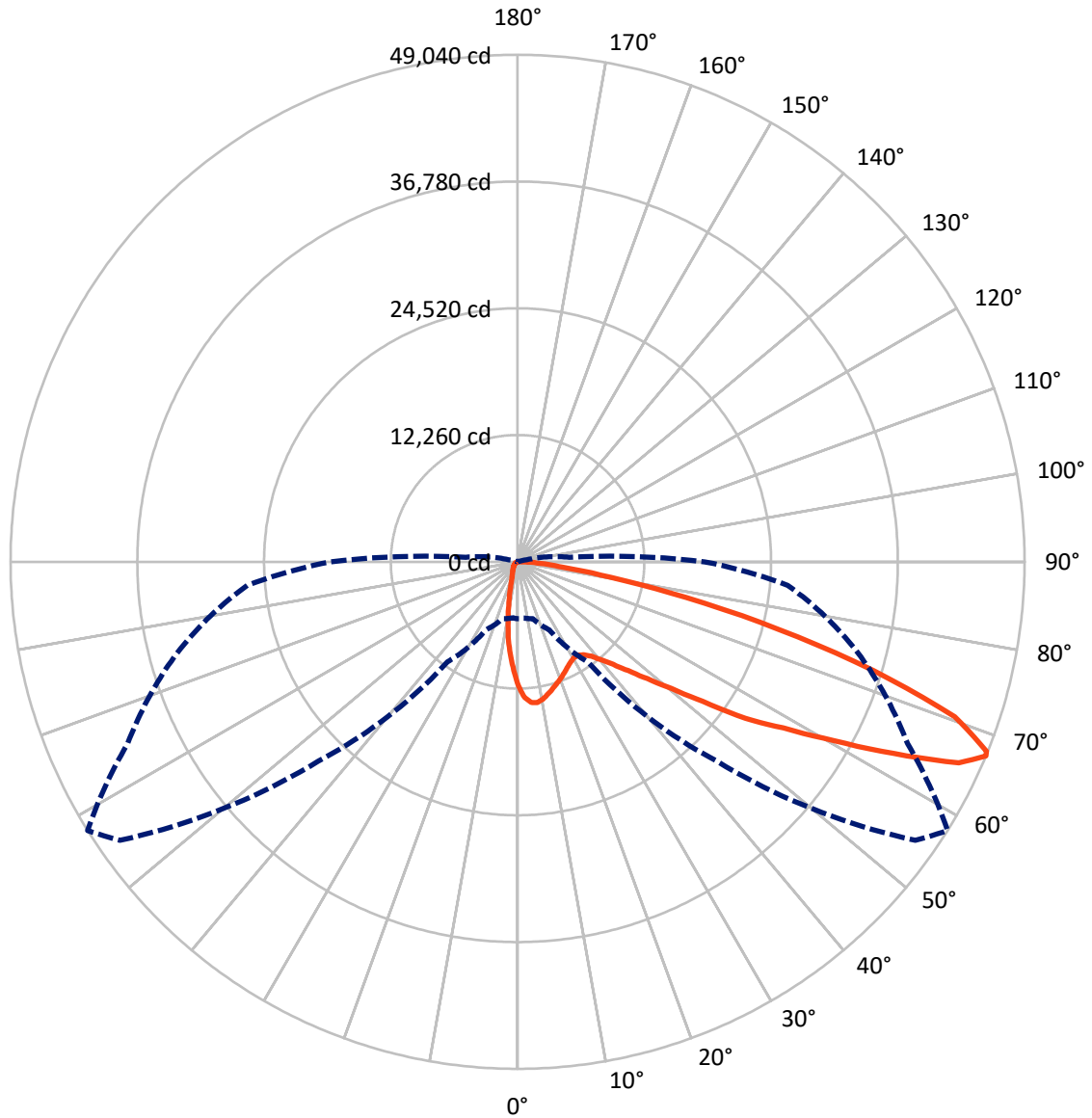
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.4 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	3278.1	0.0	3278.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	42146.1	0.0	42146.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	45424.2	0.0	45424.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	977.1	2.2
10°-20°	2110.4	4.6
20°-30°	2859.7	6.3
30°-40°	3966.3	8.7
40°-50°	6325.7	13.9
50°-60°	10934.6	24.1
60°-70°	12490.7	27.5
70°-80°	5207.5	11.5
80°-90°	552.1	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°	45424.2	100.0
0°-180°	45424.2	100.0

Coefficient of Utilization



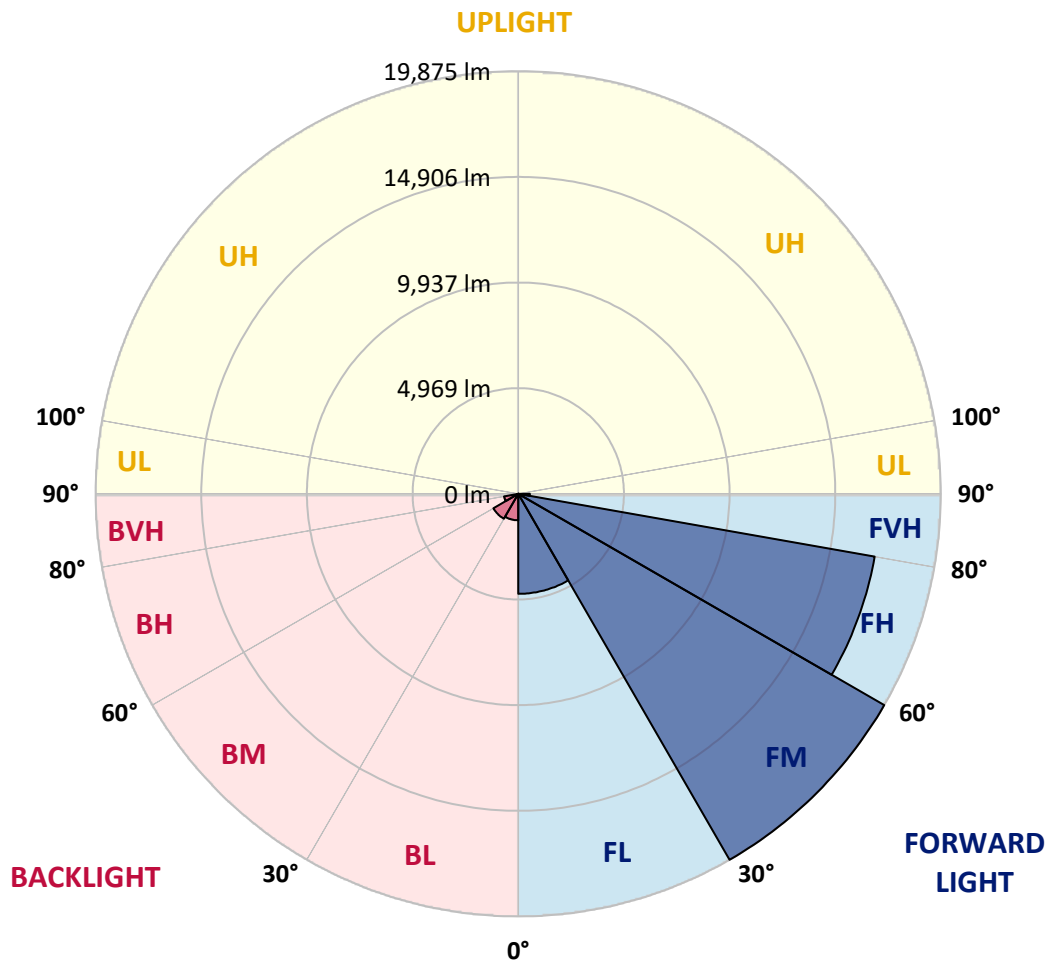
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4702.5	10.4			
FM (30°-60°)	19875.0	43.8			
FH (60°-80°)	17020.5	37.5			G5
FVH (80°-90°)	548.1	1.2			G4/750
BL (0°-30°)	1244.8	2.7	B3/2500		
BM (30°-60°)	1351.6	3.0	B2/2500		
BH (60°-80°)	677.7	1.5	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5
2.5°	13975.1	13996.4	13917.4	13853.7	13689.7	13513.7	13280.0	13155.5	12943.1	12575.8	12169.0
5°	14302.9	14330.2	14318.1	14302.9	14239.2	14069.2	13771.7	13662.5	13349.8	12751.9	12017.2
7.5°	13574.4	13674.6	13686.8	13805.2	13917.4	13932.6	13820.3	13738.4	13450.0	12748.8	11747.1
10°	12609.1	12675.9	12773.1	12909.6	13179.8	13404.4	13513.7	13501.6	13334.6	12654.7	11431.4
12.5°	11634.8	11671.2	11819.9	12053.7	12384.6	12767.0	13058.4	13116.1	13119.1	12542.4	11167.3
15°	10797.0	10781.8	10897.2	11167.3	11631.8	12111.4	12633.5	12724.5	12870.2	12433.1	10921.4
17.5°	10080.7	10159.6	10177.7	10475.3	10903.3	11525.5	12190.3	12351.1	12642.6	12339.0	10718.1
20°	9637.5	9680.0	9719.5	9886.4	10271.9	10927.5	11774.4	11996.0	12430.0	12254.0	10490.4
22.5°	9507.0	9534.3	9500.8	9552.5	9825.7	10408.5	11322.1	11616.6	12226.7	12175.1	10305.3
25°	9607.1	9634.4	9555.5	9494.8	9588.9	9986.5	10885.0	11243.3	12062.8	12159.9	10165.6
27.5°	9850.0	9901.6	9792.3	9683.0	9628.4	9758.9	10542.0	10957.9	11950.5	12232.7	10101.9
30°	10229.3	10259.7	10177.7	10044.2	9919.7	9789.2	10362.9	10760.6	11920.1	12402.7	10095.8
32.5°	10642.2	10706.0	10660.4	10572.4	10411.5	10101.9	10414.5	10766.6	11993.0	12648.6	10171.7
35°	11152.2	11225.0	11267.5	11249.3	11042.9	10657.4	10742.4	11039.8	12187.2	13100.9	10378.1
37.5°	11653.0	11716.7	11956.6	12038.5	11856.3	11492.1	11379.8	11577.1	12615.2	13692.8	10751.5
40°	12226.7	12311.7	12648.6	12961.2	12873.2	12490.8	12284.3	12448.3	13270.9	14585.3	11458.7
42.5°	12776.1	12927.9	13440.9	13993.3	14075.3	13647.3	13510.7	13565.3	14242.2	15869.2	12445.2
45°	13556.2	13698.9	14360.6	15110.3	15495.9	15161.9	15022.3	15013.2	15574.7	17675.3	14044.9
47.5°	14682.3	14809.8	15589.9	16330.6	17016.6	17062.1	16798.0	16889.1	17250.4	19788.0	16005.8
50°	16063.5	16364.0	16876.9	17648.0	18564.7	19305.3	19387.2	19265.9	19575.5	22234.5	18361.3
52.5°	18069.9	18185.3	18655.8	19290.1	20364.7	21621.4	22595.7	22428.7	22331.6	24565.7	20741.0
55°	19566.4	19721.2	20452.7	21323.8	22899.2	24556.6	26669.2	26726.9	25500.6	26805.8	23069.2
57.5°	19114.0	19350.8	20458.8	22210.2	25673.6	28703.0	30275.3	30314.8	28432.8	28982.3	25697.9
60°	16792.0	16904.3	18491.8	20829.1	25910.4	33195.4	35390.0	35071.3	31416.6	31416.6	28020.0
62.5°	11907.9	12084.0	13371.1	16810.1	23400.1	34755.6	41515.5	40856.9	35526.6	33744.8	29404.2
65°	7609.8	7439.8	8292.8	10611.8	17432.5	32451.7	46848.8	46888.2	39393.7	34676.7	28648.3
67°	5512.3	5445.5	5691.4	7254.7	11819.9	27279.4	46961.1	49040.3	41615.7	34087.8	26232.1
67.5°	5041.8	5093.4	5272.6	6544.4	10739.3	24823.7	46451.1	48912.8	42116.6	33732.7	25357.9
70°	3821.6	3733.6	3927.8	4629.0	6438.1	15659.8	39958.4	44860.6	41494.3	30208.5	20261.5
72.5°	2810.8	2801.7	3071.9	3785.2	4956.9	8341.4	29996.1	35969.8	33899.6	23002.4	12757.9
75°	1897.1	1982.2	2413.1	3162.9	4492.5	5409.1	20449.7	26095.6	23533.7	13061.5	5214.9
77.5°	1080.6	1086.6	1554.2	2540.7	4034.1	4352.8	12117.4	16625.0	12457.4	4343.7	1548.1
80°	467.5	513.0	771.0	1845.5	3345.1	3855.0	6948.1	9136.6	5038.8	919.7	500.8
82.5°	173.0	203.3	340.0	1135.3	2440.5	3175.1	4198.0	4361.9	1709.0	324.8	312.7
85°	0.0	6.1	124.4	531.2	1271.8	1417.5	2804.7	2586.2	755.8	154.8	203.3
87.5°	0.0	0.0	0.0	54.7	166.9	528.1	871.2	971.3	182.1	54.7	48.5
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°	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5	12041.5
2.5°	11950.5	11753.1	11258.4	10763.6	10396.4	10089.7	9628.4	9376.4	9242.8	9045.5	9057.7
5°	11649.9	11249.3	10378.1	9476.6	8748.1	8037.8	7187.9	6844.9	6556.5	6392.6	6283.3
7.5°	11203.8	10611.8	9321.8	8119.8	6999.7	5758.2	4826.3	4204.1	3785.2	3630.4	3481.6
10°	10715.0	9928.9	8250.3	6583.9	5029.7	3748.8	2959.5	2388.9	2185.5	1997.3	2015.5
12.5°	10262.8	9306.6	7266.8	5196.6	3524.1	2382.8	1857.7	1623.9	1557.2	1535.9	1535.9
15°	9892.4	8711.7	6210.4	3906.6	2416.2	1712.0	1487.4	1423.7	1399.3	1393.3	1393.3
17.5°	9497.9	8147.1	5257.4	2886.7	1757.5	1432.7	1356.9	1314.3	1305.3	1299.2	1299.2
20°	9145.8	7579.4	4352.8	2149.1	1420.6	1290.1	1241.5	1214.2	1205.0	1199.0	1202.1
22.5°	8811.8	7075.6	3502.9	1623.9	1250.6	1174.7	1126.1	1098.9	1080.6	1065.4	1068.5
25°	8514.3	6589.9	2816.8	1329.5	1126.1	1059.4	1010.8	971.3	931.8	913.7	910.6
27.5°	8304.9	6165.0	2194.6	1138.2	1013.8	941.0	880.2	831.7	780.1	752.8	746.7
30°	8131.9	5733.9	1736.3	1004.7	901.5	831.7	755.8	686.0	631.3	604.1	591.9
32.5°	8019.6	5324.2	1369.0	895.4	807.4	722.4	637.4	567.6	506.9	479.6	473.6
35°	8001.4	4981.1	1120.1	804.4	722.4	631.3	543.3	467.5	415.9	388.5	382.5
37.5°	8131.9	4717.0	938.0	731.6	652.6	552.5	455.3	385.5	340.0	318.7	315.7
40°	8481.0	4550.1	813.5	670.8	588.9	479.6	388.5	327.8	282.3	261.1	261.1
42.5°	9145.8	4556.2	731.6	613.2	525.2	409.7	330.9	273.2	233.7	215.5	209.5
45°	10183.9	4762.6	661.7	555.5	464.4	355.2	282.3	224.6	185.2	170.0	170.0
47.5°	11574.1	5172.3	601.0	497.8	409.7	303.6	239.8	182.1	148.8	133.6	133.6
50°	13392.3	5831.1	549.4	449.2	364.3	261.1	194.3	148.8	115.3	103.2	100.1
52.5°	15292.5	6644.5	488.7	406.8	312.7	221.6	157.9	115.3	88.0	78.9	75.9
55°	17390.0	7439.8	431.0	364.3	254.9	185.2	124.4	91.1	63.7	54.7	54.7
57.5°	19505.6	8219.9	361.2	303.6	200.4	136.6	97.2	66.8	42.5	33.4	33.4
60°	21296.6	8471.9	306.5	245.9	151.7	97.2	69.8	42.5	24.3	15.2	15.2
62.5°	21542.4	7622.0	258.0	188.2	109.3	66.8	36.4	24.3	9.1	6.1	6.1
65°	20206.8	6192.3	215.5	142.7	72.8	33.4	15.2	9.1	3.1	0.0	0.0
67°	18106.3	5020.6	176.0	106.3	51.6	21.2	9.1	3.1	0.0	0.0	0.0
67.5°	17569.0	4786.9	170.0	100.1	45.5	18.2	6.1	3.1	0.0	0.0	0.0
70°	13786.9	3584.8	121.4	60.7	27.3	12.1	0.0	0.0	0.0	0.0	0.0
72.5°	8569.0	2027.7	88.0	36.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0
75°	3238.8	710.3	60.7	24.3	12.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1007.8	270.1	36.4	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	340.0	103.2	24.3	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	209.5	42.5	15.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	130.5	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	6.1	3.1	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)