

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: P647495

Luminaire Tested: **GALN-SA6D-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647495
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-SA6D-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 29712.5 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

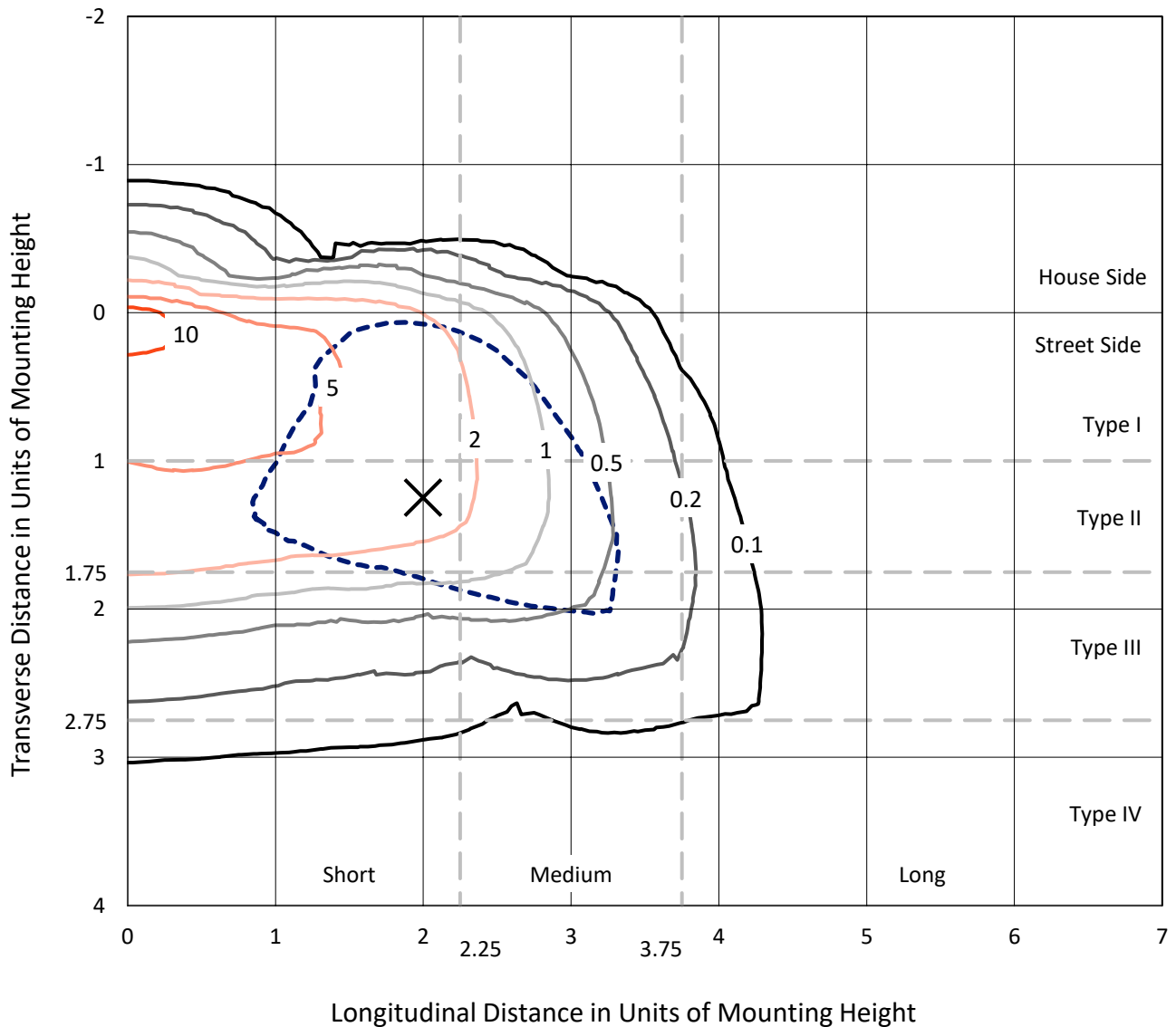
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

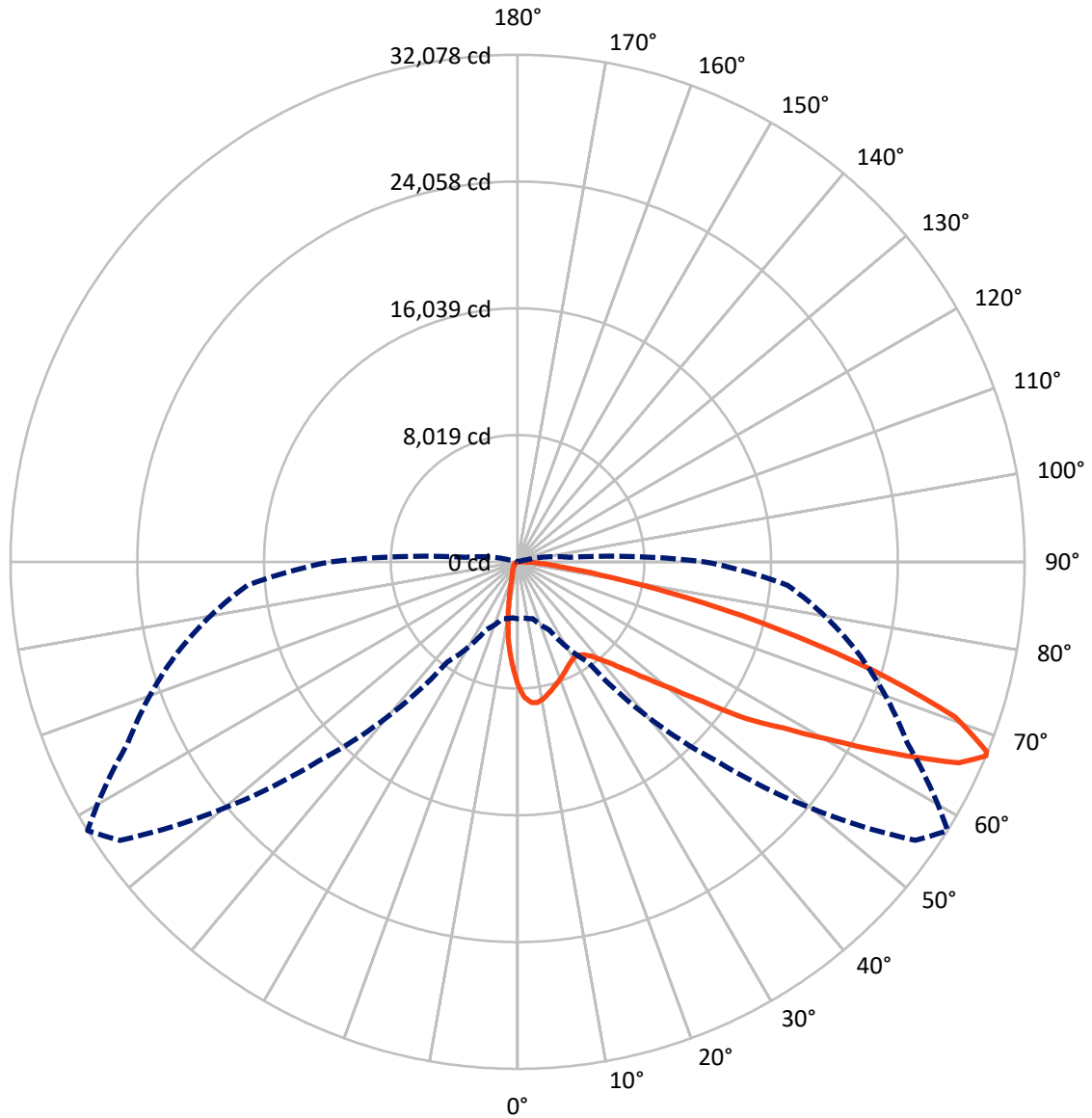
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	2144.2	0.0	2144.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	27568.3	0.0	27568.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	29712.5	0.0	29712.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.2	2.2
10°-20°	1380.4	4.6
20°-30°	1870.6	6.3
30°-40°	2594.4	8.7
40°-50°	4137.7	13.9
50°-60°	7152.4	24.1
60°-70°	8170.3	27.5
70°-80°	3406.3	11.5
80°-90°	361.2	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°	29712.5	100.0
0°-180°	29712.5	100.0

Coefficient of Utilization

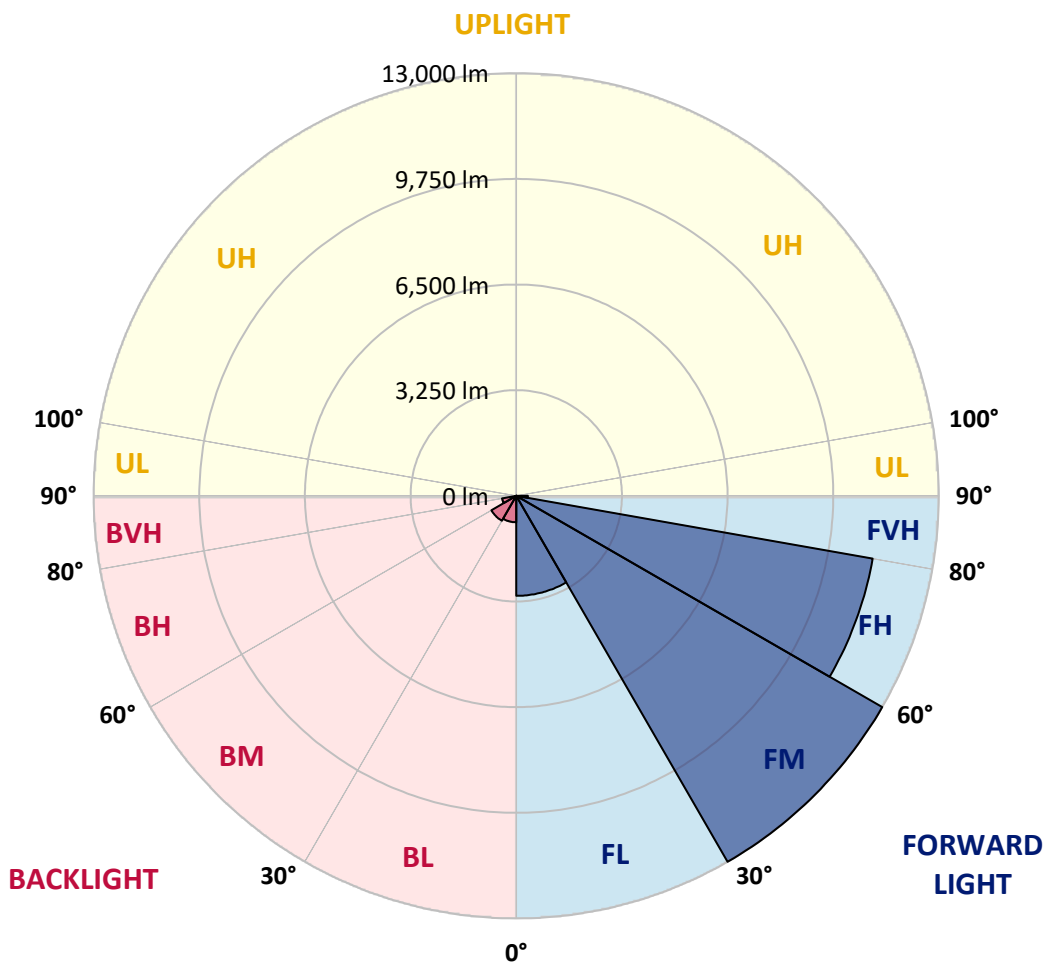


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3076.0	10.4			
FM (30°-60°)	13000.5	43.8			
FH (60°-80°)	11133.3	37.5			G4/12000
FVH (80°-90°)	358.5	1.2			G3/500
BL (0°-30°)	814.2	2.7	B2/1000		
BM (30°-60°)	884.1	3.0	B1/1000		
BH (60°-80°)	443.3	1.5	B1/500		G1/500
BVH (80°-90°)	2.6	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°	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5
2.5°	9141.3	9155.1	9103.5	9061.9	8954.6	8839.4	8686.6	8605.2	8466.2	8226.0	7959.9
5°	9355.8	9373.6	9365.6	9355.8	9314.0	9202.8	9008.3	8936.8	8732.3	8341.1	7860.6
7.5°	8879.2	8944.7	8952.7	9030.1	9103.5	9113.5	9040.0	8986.4	8797.8	8339.1	7683.9
10°	8247.8	8291.5	8355.0	8444.3	8621.1	8768.0	8839.4	8831.5	8722.3	8277.6	7477.4
12.5°	7610.4	7634.2	7731.6	7884.4	8100.8	8351.1	8541.7	8579.4	8581.4	8204.1	7304.7
15°	7062.4	7052.6	7128.0	7304.7	7608.5	7922.2	8263.7	8323.2	8418.6	8132.6	7143.9
17.5°	6593.9	6645.5	6657.4	6852.0	7132.0	7539.0	7973.8	8079.0	8269.7	8071.1	7010.8
20°	6304.0	6331.8	6357.6	6466.8	6718.9	7147.9	7701.8	7846.8	8130.7	8015.5	6861.9
22.5°	6218.6	6236.5	6214.7	6248.4	6427.1	6808.3	7405.9	7598.5	7997.6	7963.9	6740.8
25°	6284.1	6302.0	6250.4	6210.7	6272.2	6532.3	7120.1	7354.3	7890.4	7953.9	6649.5
27.5°	6443.0	6476.7	6405.3	6333.8	6298.1	6383.4	6895.6	7167.7	7816.9	8001.6	6607.7
30°	6691.1	6711.0	6657.4	6570.1	6488.6	6403.3	6778.5	7038.6	7797.1	8112.8	6603.8
32.5°	6961.2	7002.9	6973.1	6915.5	6810.3	6607.7	6812.3	7042.6	7844.7	8273.6	6653.5
35°	7294.7	7342.4	7370.2	7358.3	7223.3	6971.1	7026.7	7221.3	7971.8	8569.5	6788.5
37.5°	7622.3	7664.1	7820.9	7874.6	7755.4	7517.1	7443.7	7572.7	8251.8	8956.7	7032.7
40°	7997.6	8053.2	8273.6	8478.1	8420.5	8170.4	8035.4	8142.6	8680.7	9540.4	7495.3
42.5°	8357.0	8456.2	8791.8	9153.2	9206.8	8926.8	8837.5	8873.3	9316.0	10380.2	8140.6
45°	8867.3	8960.6	9393.4	9883.9	10136.0	9917.6	9826.3	9820.3	10187.6	11561.6	9186.9
47.5°	9603.9	9687.3	10197.6	10682.0	11130.7	11160.6	10987.8	11047.3	11283.7	12943.5	10469.6
50°	10507.3	10703.8	11039.4	11543.8	12143.4	12627.8	12681.5	12602.0	12804.6	14543.8	12010.4
52.5°	11819.7	11895.2	12202.9	12617.9	13320.8	14142.8	14780.1	14670.9	14607.4	16068.7	13567.0
55°	12798.6	12899.8	13378.3	13948.2	14978.7	16062.8	17444.7	17482.4	16680.2	17534.0	15089.9
57.5°	12502.7	12657.6	13382.3	14527.9	16793.4	18774.9	19803.5	19829.2	18598.3	18957.6	16809.3
60°	10983.8	11057.3	12095.7	13624.6	16948.3	21713.5	23149.0	22940.6	20550.0	20550.0	18328.2
62.5°	7789.1	7904.3	8746.2	10995.7	15306.3	22734.1	27155.8	26725.0	23238.4	22072.9	19233.6
65°	4977.7	4866.5	5424.4	6941.4	11402.8	21227.1	30644.3	30670.1	25767.9	22682.4	18739.2
67°	3605.7	3562.0	3722.9	4745.4	7731.6	17843.8	30717.8	32077.9	27221.3	22297.3	17158.7
67.5°	3297.9	3331.7	3448.8	4280.7	7024.8	16237.5	30384.2	31994.5	27548.9	22064.9	16586.9
70°	2499.7	2442.2	2569.3	3027.9	4211.3	10243.2	26137.2	29343.9	27141.9	19759.8	13253.3
72.5°	1838.6	1832.6	2009.3	2475.9	3242.3	5456.2	19620.8	23528.3	22174.2	15046.2	8345.1
75°	1241.0	1296.6	1578.4	2068.9	2938.5	3538.1	13376.4	17069.4	15393.6	8543.6	3411.1
77.5°	706.8	710.8	1016.6	1661.8	2638.7	2847.2	7926.2	10874.6	8148.5	2841.3	1012.6
80°	305.8	335.5	504.3	1207.2	2188.0	2521.6	4544.8	5976.4	3296.0	601.6	327.6
82.5°	113.1	133.0	222.4	742.6	1596.4	2076.8	2746.0	2853.2	1117.8	212.4	204.5
85°	0.0	4.0	81.4	347.5	831.9	927.2	1834.6	1691.7	494.4	101.2	133.0
87.5°	0.0	0.0	0.0	35.7	109.2	345.5	569.9	635.3	119.1	35.7	31.8
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°	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5	7876.5
2.5°	7816.9	7687.9	7364.3	7040.6	6800.4	6599.8	6298.1	6133.2	6045.9	5916.8	5924.7
5°	7620.4	7358.3	6788.5	6198.8	5722.2	5257.6	4701.7	4477.4	4288.7	4181.5	4110.0
7.5°	7328.5	6941.4	6097.5	5311.2	4578.6	3766.5	3157.0	2749.9	2475.9	2374.7	2277.4
10°	7008.9	6494.6	5396.6	4306.6	3290.0	2452.1	1935.9	1562.6	1429.6	1306.4	1318.4
12.5°	6713.0	6087.6	4753.3	3399.2	2305.2	1558.6	1215.1	1062.2	1018.6	1004.7	1004.7
15°	6470.8	5698.4	4062.4	2555.3	1580.5	1119.8	972.9	931.2	915.3	911.3	911.3
17.5°	6212.6	5329.1	3438.9	1888.2	1149.6	937.2	887.5	859.7	853.8	849.8	849.8
20°	5982.4	4957.8	2847.2	1405.7	929.2	843.8	812.0	794.2	788.2	784.3	786.3
22.5°	5763.9	4628.2	2291.3	1062.2	818.0	768.4	736.6	718.7	706.8	696.9	698.9
25°	5569.3	4310.6	1842.6	869.7	736.6	693.0	661.2	635.3	609.6	597.7	595.6
27.5°	5432.4	4032.5	1435.6	744.6	663.1	615.5	575.8	544.0	510.3	492.4	488.4
30°	5319.2	3750.6	1135.7	657.2	589.7	544.0	494.4	448.7	413.0	395.1	387.2
32.5°	5245.7	3482.5	895.4	585.8	528.1	472.5	416.9	371.3	331.6	313.7	309.8
35°	5233.8	3258.2	732.7	526.2	472.5	413.0	355.4	305.8	272.0	254.2	250.2
37.5°	5319.2	3085.5	613.6	478.5	426.9	361.4	297.9	252.1	222.4	208.5	206.5
40°	5547.5	2976.3	532.1	438.8	385.2	313.7	254.2	214.5	184.6	170.8	170.8
42.5°	5982.4	2980.3	478.5	401.1	343.5	268.0	216.4	178.7	152.9	140.9	137.0
45°	6661.4	3115.2	432.8	363.3	303.8	232.3	184.6	146.9	121.1	111.2	111.2
47.5°	7570.7	3383.3	393.1	325.6	268.0	198.6	156.8	119.1	97.3	87.4	87.4
50°	8760.0	3814.1	359.4	293.9	238.3	170.8	127.1	97.3	75.5	67.5	65.5
52.5°	10003.0	4346.3	319.7	266.1	204.5	144.9	103.3	75.5	57.6	51.6	49.6
55°	11375.0	4866.5	282.0	238.3	166.8	121.1	81.4	59.6	41.7	35.7	35.7
57.5°	12758.9	5376.8	236.3	198.6	131.1	89.3	63.5	43.7	27.8	21.8	21.8
60°	13930.4	5541.5	200.5	160.8	99.3	63.5	45.6	27.8	15.9	9.9	9.9
62.5°	14091.2	4985.6	168.7	123.1	71.5	43.7	23.8	15.9	6.0	4.0	4.0
65°	13217.5	4050.5	140.9	93.3	47.7	21.8	9.9	6.0	2.0	0.0	0.0
67°	11843.6	3284.1	115.2	69.5	33.7	13.9	6.0	2.0	0.0	0.0	0.0
67.5°	11492.1	3131.1	111.2	65.5	29.8	11.9	4.0	2.0	0.0	0.0	0.0
70°	9018.2	2344.9	79.4	39.7	17.9	7.9	0.0	0.0	0.0	0.0	0.0
72.5°	5605.1	1326.3	57.6	23.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0
75°	2118.6	464.6	39.7	15.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	659.2	176.7	23.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	222.4	67.5	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.0	27.8	9.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	85.3	11.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	4.0	2.0	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)