

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: P459081

Luminaire Tested: **GALN-SA5D-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26979 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

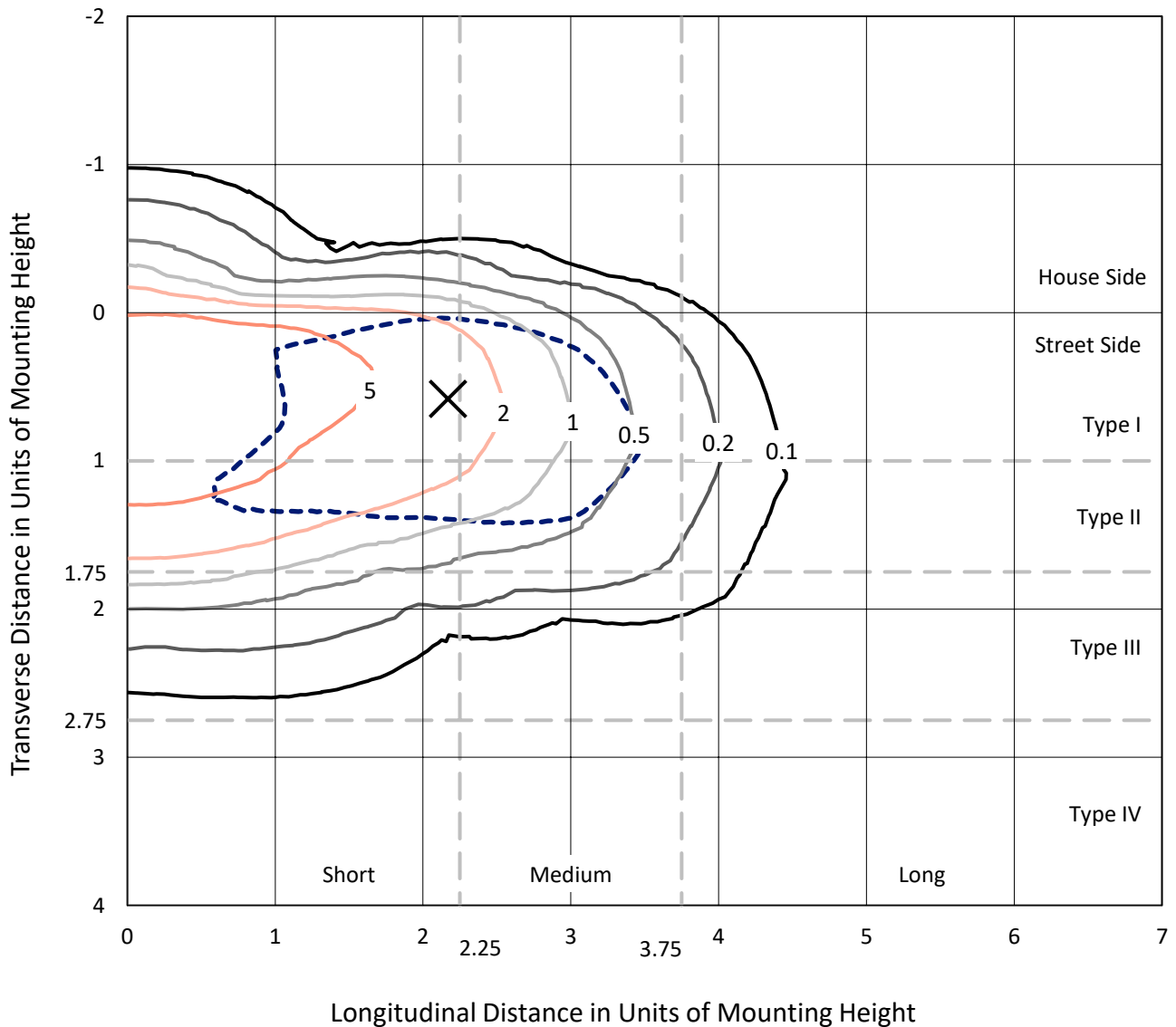
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

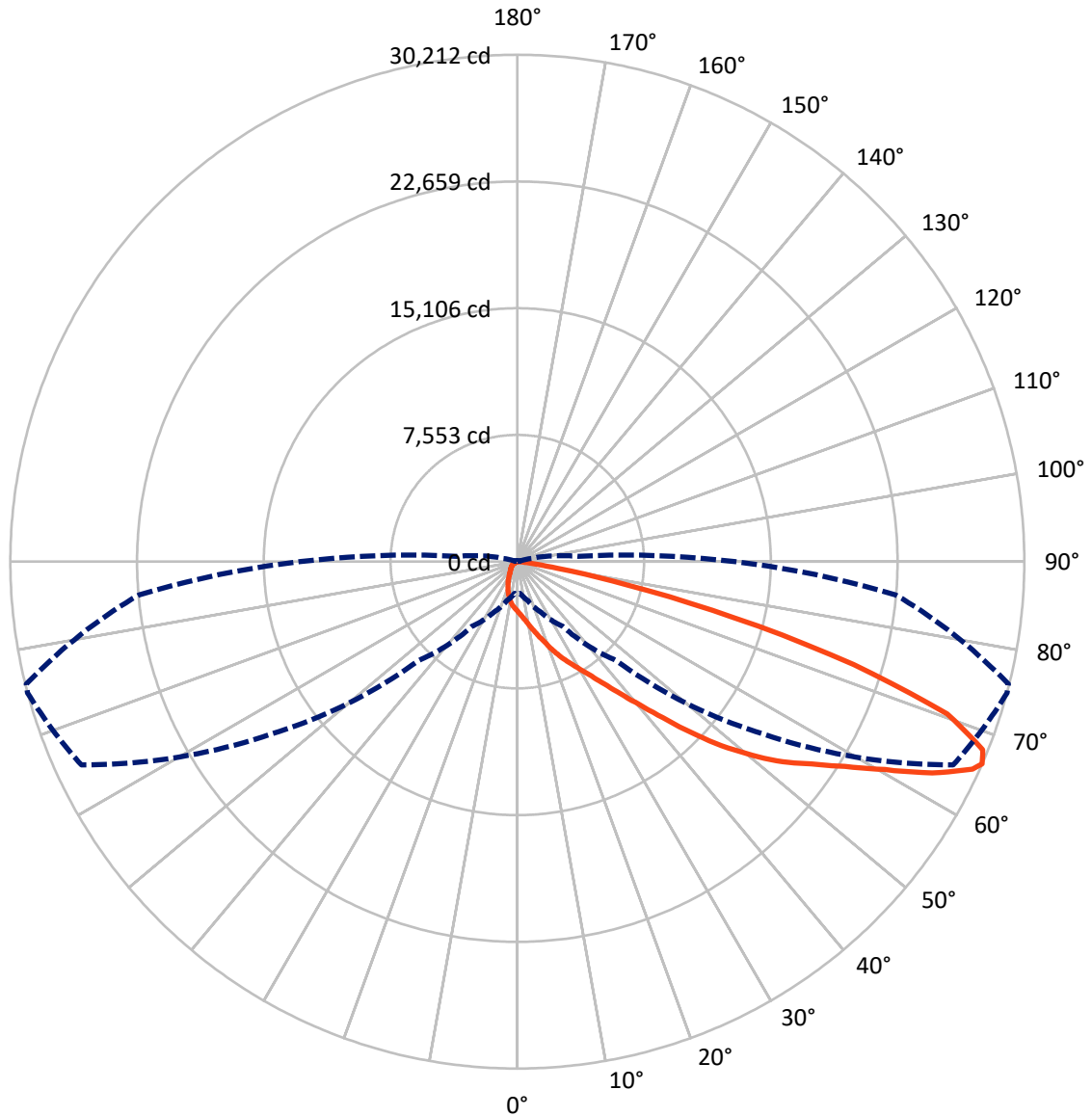
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1665.6	0.0	1665.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25313.4	0.0	25313.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	26979.0	0.0	26979.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	1.1
10°-20°	837.5	3.1
20°-30°	1446.2	5.4
30°-40°	2608.6	9.7
40°-50°	4712.6	17.5
50°-60°	7346.9	27.2
60°-70°	6979.3	25.9
70°-80°	2615.7	9.7
80°-90°	147.6	0.5
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°	26979.0	100.0
0°-180°	26979.0	100.0

Coefficient of Utilization



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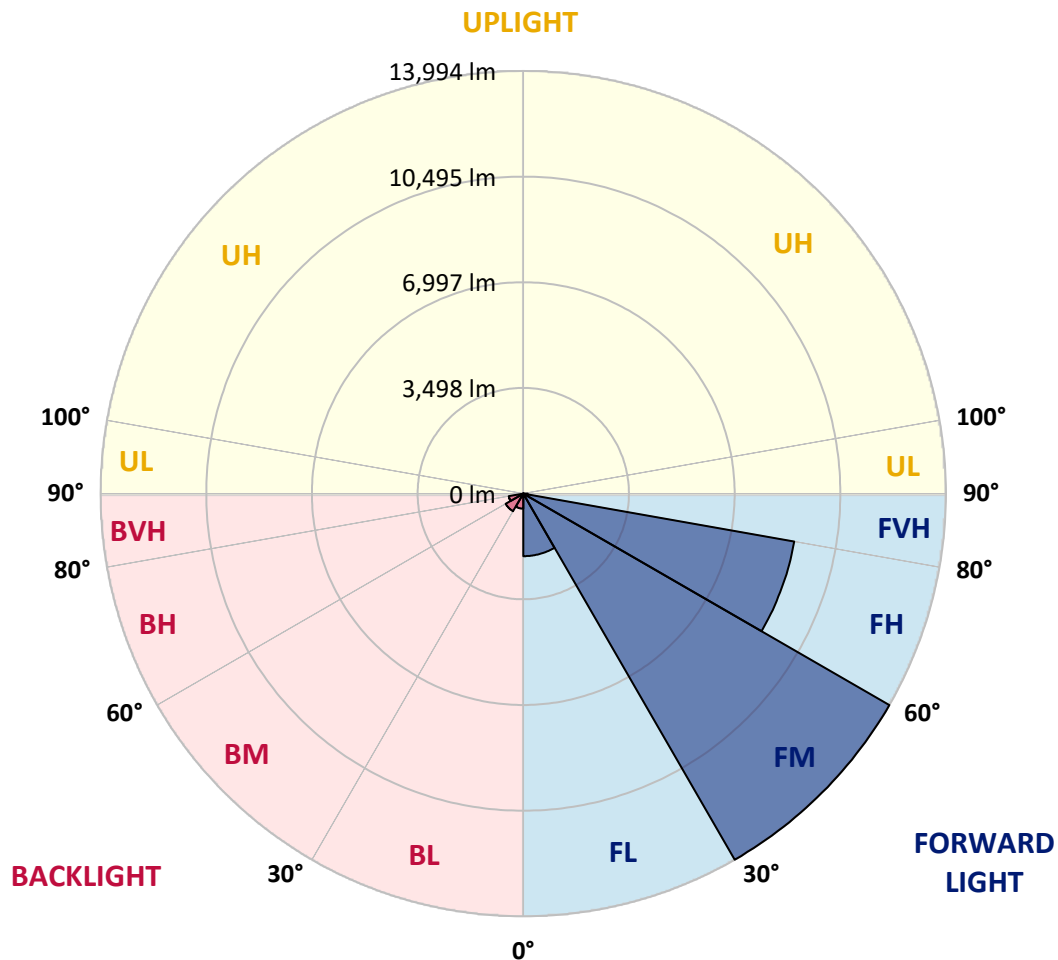
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2070.9	7.7			
FM	(30°-60°)	13994.0	51.9			
FH	(60°-80°)	9108.6	33.8			G4/12000
FVH	(80°-90°)	140.0	0.5			G2/225
BL	(0°-30°)	497.4	1.8	B1/500		
BM	(30°-60°)	674.2	2.5	B1/1000		
BH	(60°-80°)	486.4	1.8	B1/500		G1/500
BVH	(80°-90°)	7.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4
2.5°	3524.9	3481.1	3495.0	3475.1	3429.2	3361.4	3301.5	3215.7	3130.0	3116.0	3020.2
5°	3989.8	3977.8	3961.8	3904.0	3872.1	3768.3	3644.6	3497.0	3319.5	3287.6	3114.0
7.5°	4306.9	4301.0	4308.9	4279.0	4251.1	4157.3	4025.7	3824.2	3548.9	3530.9	3241.7
10°	4410.7	4426.6	4456.6	4504.4	4548.3	4518.4	4418.6	4167.3	3846.1	3794.3	3387.3
12.5°	4350.8	4368.8	4440.6	4568.3	4709.9	4791.7	4751.8	4568.3	4161.3	4119.4	3550.9
15°	4197.2	4219.2	4320.9	4518.4	4771.7	5003.1	5102.9	4971.2	4528.4	4460.5	3748.4
17.5°	3969.8	4001.7	4147.3	4408.7	4755.8	5154.8	5436.0	5392.1	4919.4	4855.5	3963.8
20°	3798.2	3822.2	3945.9	4245.1	4688.0	5238.5	5753.2	5876.9	5402.1	5292.4	4217.2
22.5°	3912.0	3919.9	3961.8	4141.4	4566.3	5260.5	6032.5	6381.6	5914.8	5817.1	4480.5
25°	4468.5	4388.7	4346.8	4306.9	4540.3	5240.5	6285.9	6908.3	6425.5	6321.8	4741.8
27.5°	5346.3	5310.4	5098.9	4815.6	4761.8	5266.5	6453.4	7407.0	6906.3	6794.5	4997.2
30°	6301.8	6240.0	6110.3	5695.4	5278.4	5450.0	6575.1	7891.7	7474.8	7327.2	5230.6
32.5°	7179.6	7219.5	7026.0	6599.0	6116.3	5841.0	6732.7	8420.4	8127.1	7943.6	5501.9
35°	8202.9	8282.7	7985.5	7576.5	7012.0	6547.2	7039.9	9016.8	8955.0	8723.6	5920.8
37.5°	9242.3	9290.1	9108.6	8534.1	8025.4	7444.9	7618.4	9752.9	9974.4	9776.9	6421.5
40°	10116.0	10181.8	10048.2	9537.5	8994.9	8484.2	8458.3	10554.9	11187.3	10983.8	7167.6
42.5°	10784.3	10834.2	10838.2	10477.1	9988.3	9756.9	9529.5	11578.3	12707.4	12472.0	8033.4
45°	11628.1	11699.9	11658.1	11412.7	11047.6	11005.7	10888.0	12815.1	14526.7	14229.4	9156.5
47.5°	12932.8	12980.7	12876.9	12587.7	12216.6	12282.4	12212.6	14201.5	16381.9	16126.6	10319.5
50°	13838.4	13918.2	14065.9	14181.6	13912.3	13668.9	13461.4	15496.2	18143.4	17914.0	11508.4
52.5°	13828.5	13960.1	14426.9	15009.4	15597.9	15524.1	14927.7	16926.5	19825.1	19541.8	12625.6
55°	12896.9	13152.2	13838.4	14871.8	16501.6	17313.5	17042.2	18582.3	21277.3	21085.8	13920.2
57.5°	10973.8	11129.4	12083.0	13527.2	15996.9	18155.4	19491.9	20826.5	23018.9	22929.1	15931.1
60°	7381.0	7450.9	8677.7	10463.1	13619.0	17315.5	21287.3	23541.5	25163.4	25119.5	18279.0
62.5°	4229.1	4259.1	5148.8	6654.9	9691.1	14674.3	21438.9	26890.9	27734.7	27758.7	20996.1
65°	2276.2	2292.1	3010.3	3906.0	5896.9	10459.1	19278.5	28726.2	29813.4	29859.3	22679.7
66°	1965.0	1889.1	2395.8	3329.4	4691.9	8324.6	17912.0	28660.4	30212.4	30162.5	22619.9
67.5°	1494.2	1562.0	1913.1	2559.4	3477.1	5918.8	14788.0	27385.6	29909.2	29753.6	21700.3
70°	1069.3	1097.2	1362.5	1825.3	2367.9	3247.7	9449.7	22745.6	27184.2	26974.7	18905.4
72.5°	690.2	720.1	965.5	1320.6	1711.6	1773.4	5290.4	16433.8	20958.2	20928.2	14237.4
75°	492.7	520.7	638.4	945.6	1286.7	1097.2	2547.5	11075.5	13323.8	13234.0	8807.4
77.5°	357.1	371.0	426.9	618.4	919.6	786.0	1181.0	5914.8	6633.0	6946.2	3892.0
80°	205.5	217.4	297.2	377.0	622.4	536.6	564.5	2373.9	2447.7	2330.0	1216.9
82.5°	101.7	115.7	177.5	257.3	389.0	361.1	259.3	714.2	754.1	734.1	307.2
85°	23.9	29.9	99.7	169.6	189.5	161.6	125.7	209.5	259.3	253.3	117.7
87.5°	2.0	4.0	35.9	29.9	31.9	53.9	43.9	53.9	83.8	77.8	41.9
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°	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4
2.5°	2976.4	2938.5	2828.7	2721.0	2631.2	2537.5	2451.7	2401.8	2381.9	2359.9	2369.9
5°	3018.2	2926.5	2705.1	2513.5	2326.0	2166.4	2038.8	1957.0	1917.1	1911.1	1901.1
7.5°	3074.1	2916.5	2573.4	2274.2	2028.8	1851.2	1705.6	1587.9	1552.0	1520.1	1494.2
10°	3141.9	2898.6	2409.8	2022.8	1761.5	1538.0	1346.5	1206.9	1135.1	1115.1	1129.1
12.5°	3213.7	2864.6	2238.2	1791.4	1490.2	1204.9	1027.4	957.5	937.6	929.6	931.6
15°	3285.6	2822.7	2058.7	1568.0	1187.0	961.5	879.7	861.8	853.8	849.8	845.8
17.5°	3351.4	2754.9	1857.2	1350.5	961.5	821.9	792.0	776.0	760.0	754.1	744.1
20°	3429.2	2677.1	1675.7	1107.2	813.9	744.1	708.2	678.3	654.3	638.4	636.4
22.5°	3503.0	2577.4	1486.2	917.6	742.1	668.3	610.4	578.5	550.6	530.6	536.6
25°	3542.9	2455.7	1316.6	799.9	676.3	592.5	528.6	488.7	458.8	448.8	446.9
27.5°	3542.9	2306.1	1151.0	732.1	616.4	524.7	458.8	420.9	401.0	387.0	389.0
30°	3515.0	2140.5	997.4	680.3	564.5	464.8	403.0	369.1	353.1	343.1	341.1
32.5°	3493.0	1982.9	865.8	630.4	510.7	412.9	359.1	333.1	317.2	307.2	307.2
35°	3526.9	1847.3	764.0	580.5	460.8	373.0	325.2	301.2	285.3	277.3	275.3
37.5°	3616.7	1723.6	686.2	526.6	414.9	339.1	301.2	273.3	257.3	247.4	243.4
40°	3838.1	1653.8	628.4	476.8	371.0	311.2	273.3	247.4	227.4	217.4	215.4
42.5°	4193.2	1655.7	572.5	430.9	337.1	287.3	249.4	219.4	197.5	187.5	185.5
45°	4727.9	1731.6	528.6	387.0	307.2	261.3	223.4	191.5	171.6	161.6	161.6
47.5°	5368.2	1879.2	490.7	349.1	279.3	237.4	197.5	165.6	145.6	137.6	137.6
50°	6062.4	2070.7	452.8	309.2	255.3	211.5	169.6	143.6	127.7	121.7	121.7
52.5°	6770.6	2302.1	414.9	277.3	229.4	183.5	145.6	127.7	113.7	109.7	107.7
55°	7700.2	2597.3	375.0	243.4	201.5	157.6	129.7	111.7	95.8	89.8	87.8
57.5°	9130.5	3042.2	331.1	213.5	165.6	131.7	111.7	93.8	75.8	65.8	63.8
60°	10856.1	3584.8	285.3	187.5	133.7	107.7	89.8	71.8	55.9	43.9	41.9
62.5°	12472.0	3929.9	241.4	157.6	105.7	81.8	63.8	53.9	39.9	27.9	25.9
65°	13186.1	3814.2	199.5	127.7	83.8	57.9	41.9	37.9	23.9	12.0	10.0
66°	12948.7	3642.6	183.5	115.7	75.8	49.9	35.9	31.9	18.0	6.0	6.0
67.5°	12248.5	3237.7	159.6	99.7	65.8	39.9	27.9	23.9	10.0	2.0	0.0
70°	10495.0	2619.3	125.7	73.8	47.9	27.9	16.0	12.0	6.0	0.0	0.0
72.5°	8061.3	1951.0	99.7	55.9	33.9	16.0	8.0	4.0	6.0	0.0	0.0
75°	4939.3	1115.1	77.8	41.9	21.9	10.0	6.0	0.0	6.0	2.0	0.0
77.5°	2192.4	500.7	51.9	27.9	16.0	8.0	4.0	0.0	4.0	2.0	0.0
80°	554.6	163.6	29.9	19.9	12.0	6.0	2.0	0.0	4.0	4.0	2.0
82.5°	151.6	59.8	21.9	16.0	10.0	6.0	2.0	0.0	4.0	4.0	4.0
85°	59.8	27.9	19.9	16.0	12.0	6.0	2.0	0.0	4.0	4.0	4.0
87.5°	27.9	19.9	19.9	18.0	14.0	6.0	2.0	0.0	4.0	2.0	4.0
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)