

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: P647510

Luminaire Tested: **GALN-SA6D-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647510
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-SA6D-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 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: 26851.4 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

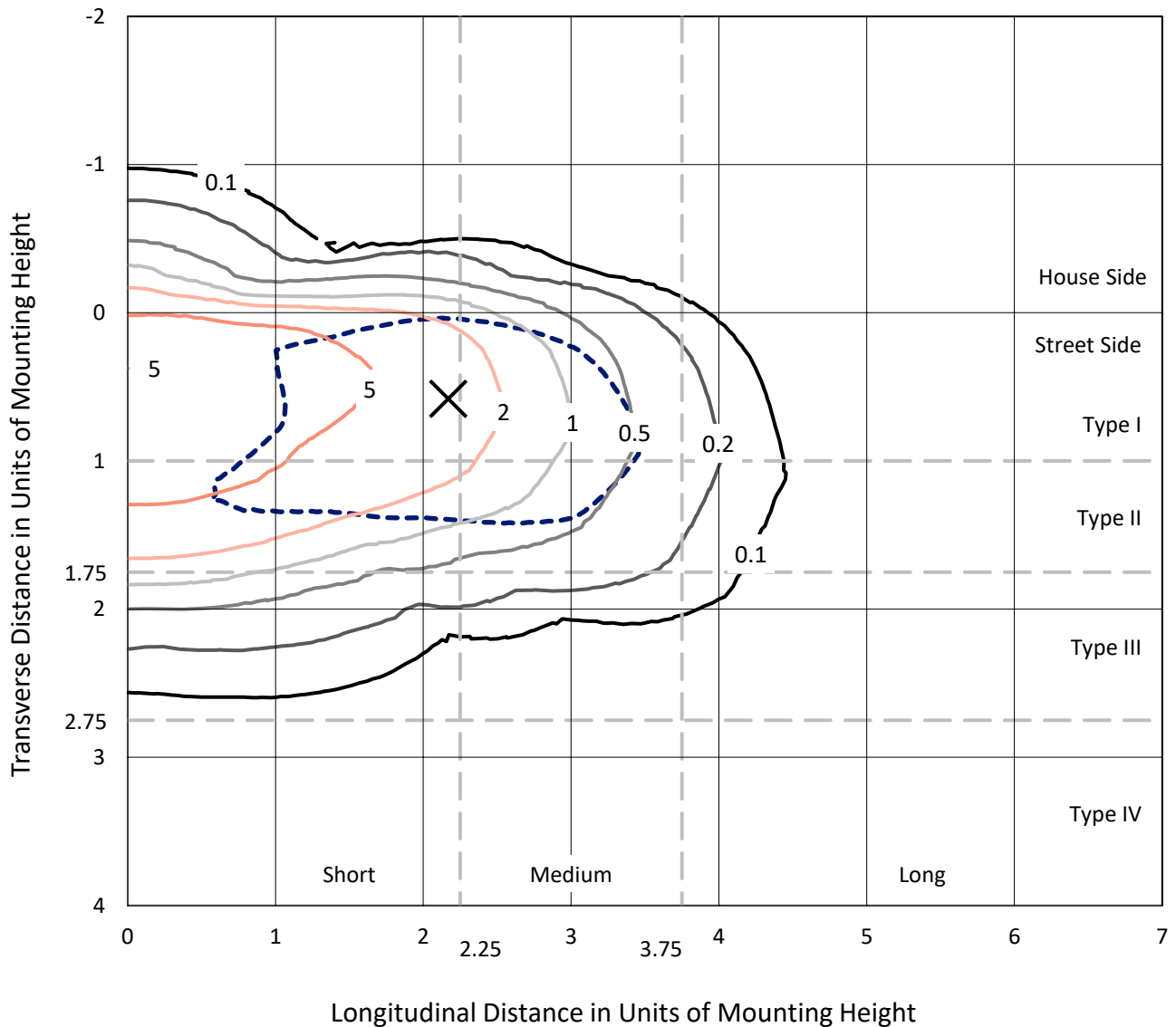
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

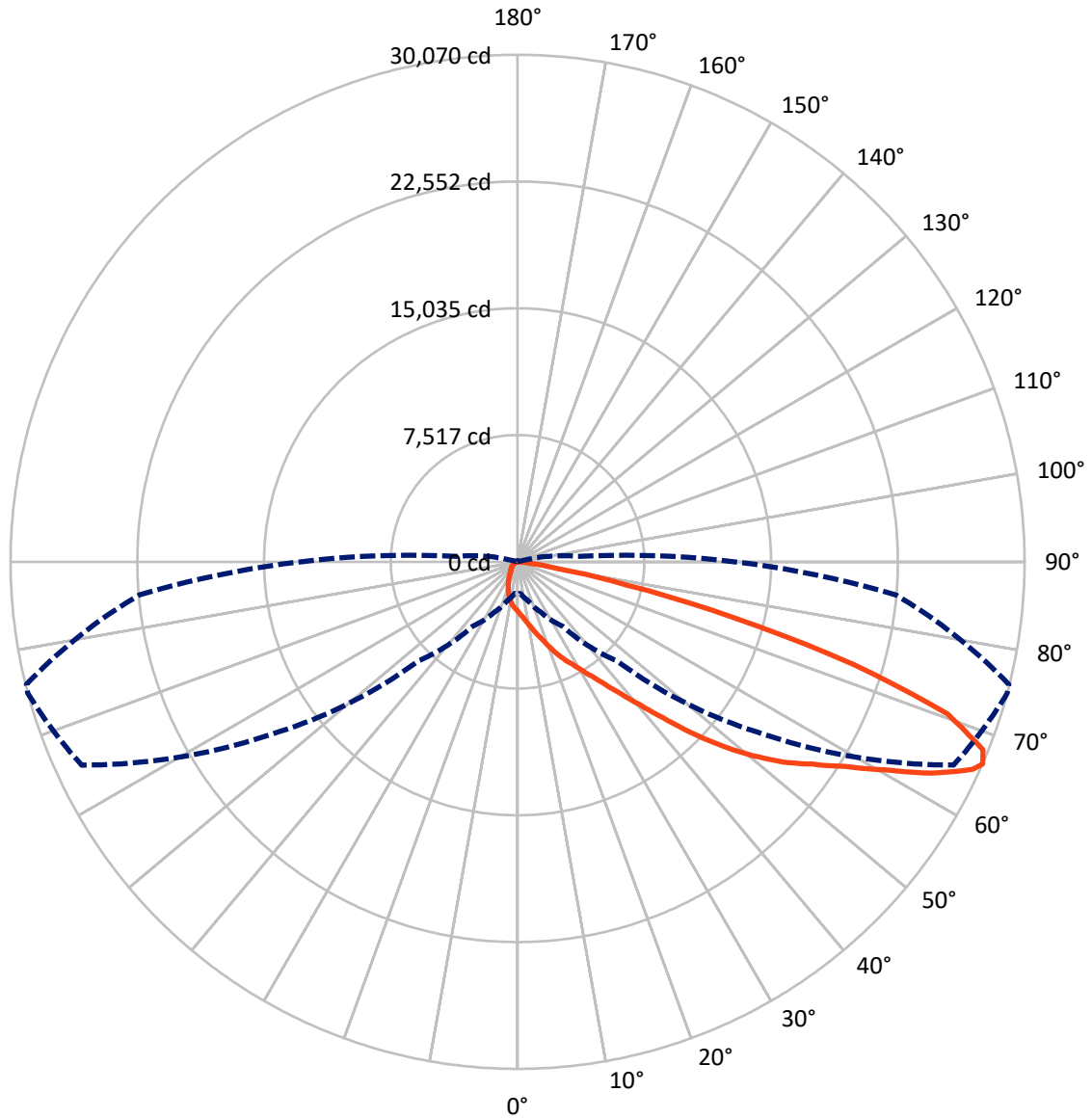
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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	1657.7	0.0	1657.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25193.7	0.0	25193.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	26851.4	0.0	26851.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	1.1
10°-20°	833.6	3.1
20°-30°	1439.4	5.4
30°-40°	2596.3	9.7
40°-50°	4690.3	17.5
50°-60°	7312.2	27.2
60°-70°	6946.3	25.9
70°-80°	2603.3	9.7
80°-90°	146.9	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°	26851.4	100.0
0°-180°	26851.4	100.0

Coefficient of Utilization

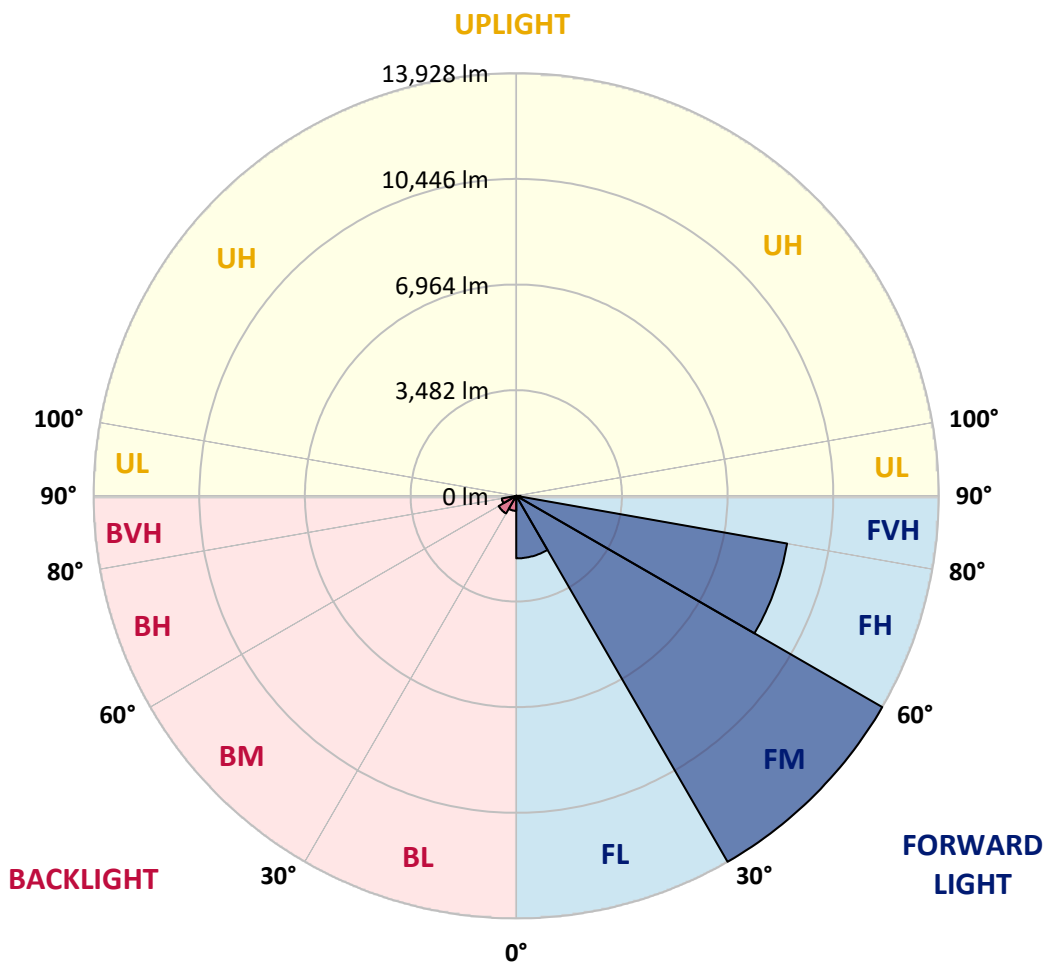


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2061.1	7.7			
FM (30°-60°)	13927.8	51.9			
FH (60°-80°)	9065.5	33.8			G4/12000
FVH (80°-90°)	139.3	0.5			G2/225
BL (0°-30°)	495.1	1.8	B1/500		
BM (30°-60°)	671.0	2.5	B1/1000		
BH (60°-80°)	484.1	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°	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5
2.5°	3508.3	3464.6	3478.5	3458.7	3412.9	3345.4	3285.9	3200.5	3115.2	3101.2	3005.9
5°	3970.9	3959.0	3943.1	3885.5	3853.8	3750.5	3627.4	3480.5	3303.8	3272.0	3099.3
7.5°	4286.5	4280.6	4288.6	4258.7	4230.9	4137.7	4006.6	3806.1	3532.1	3514.3	3226.4
10°	4389.8	4405.7	4435.5	4483.1	4526.8	4497.0	4397.7	4147.6	3827.9	3776.3	3371.3
12.5°	4330.2	4348.2	4419.6	4546.6	4687.7	4769.0	4729.3	4546.6	4141.6	4099.9	3534.1
15°	4177.4	4199.2	4300.5	4497.0	4749.2	4979.5	5078.8	4947.7	4506.9	4439.5	3730.7
17.5°	3951.0	3982.8	4127.7	4387.9	4733.3	5130.4	5410.3	5366.7	4896.1	4832.6	3945.1
20°	3780.2	3804.1	3927.2	4225.0	4665.8	5213.8	5726.0	5849.1	5376.5	5267.4	4197.2
22.5°	3893.5	3901.4	3943.1	4121.8	4544.7	5235.6	6004.0	6351.5	5886.8	5789.6	4459.3
25°	4447.4	4368.0	4326.3	4286.5	4518.8	5215.7	6256.1	6875.6	6395.1	6291.9	4719.4
27.5°	5321.0	5285.2	5074.8	4792.8	4739.3	5241.6	6422.9	7371.9	6873.6	6762.4	4973.5
30°	6272.0	6210.4	6081.4	5668.5	5253.5	5424.2	6544.0	7854.4	7439.4	7292.5	5205.9
32.5°	7145.6	7185.3	6992.7	6567.8	6087.4	5813.4	6700.8	8380.5	8088.7	7906.0	5475.8
35°	8164.1	8243.6	7947.7	7540.7	6978.8	6516.2	7006.6	8974.2	8912.7	8682.4	5892.8
37.5°	9198.5	9246.2	9065.5	8493.7	7987.5	7409.7	7582.4	9706.9	9927.2	9730.7	6391.2
40°	10068.2	10133.7	10000.6	9492.4	8952.4	8444.1	8418.3	10505.0	11134.3	10931.9	7133.7
42.5°	10733.3	10782.9	10786.9	10427.5	9941.1	9710.8	9484.5	11523.5	12647.3	12413.0	7995.4
45°	11573.1	11644.6	11602.9	11358.7	10995.4	10953.7	10836.6	12754.4	14458.0	14162.1	9113.2
47.5°	12871.6	12919.3	12816.0	12528.2	12158.8	12224.4	12154.9	14134.3	16304.4	16050.3	10270.7
50°	13773.0	13852.4	13999.3	14114.5	13846.5	13604.2	13397.8	15422.9	18057.6	17829.3	11454.0
52.5°	13763.1	13894.1	14358.7	14938.5	15524.1	15450.7	14857.0	16846.5	19731.3	19449.4	12565.9
55°	12835.9	13090.0	13773.0	14801.4	16423.6	17231.6	16961.7	18494.4	21176.7	20986.1	13854.4
57.5°	10921.9	11076.8	12025.8	13463.3	15921.3	18069.5	19399.8	20728.0	22910.0	22820.7	15855.8
60°	7346.1	7415.6	8636.6	10413.7	13554.6	17233.6	21186.6	23430.2	25044.3	25000.6	18192.6
62.5°	4209.2	4238.9	5124.4	6623.4	9645.3	14604.9	21337.5	26763.7	27603.6	27627.5	20896.8
65°	2265.4	2281.3	2996.0	3887.5	5869.0	10409.7	19187.3	28590.4	29672.4	29718.1	22572.5
66°	1955.7	1880.2	2384.5	3313.7	4669.7	8285.2	17827.3	28524.8	30069.5	30019.9	22512.9
67.5°	1487.1	1554.6	1904.0	2547.3	3460.6	5890.8	14718.1	27256.2	29767.7	29612.8	21597.6
70°	1064.2	1092.0	1356.1	1816.7	2356.8	3232.3	9405.0	22638.0	27055.6	26847.1	18816.0
72.5°	686.9	716.8	961.0	1314.3	1703.5	1765.0	5265.4	16356.1	20859.0	20829.3	14170.1
75°	490.4	518.2	635.3	941.1	1280.6	1092.0	2535.4	11023.2	13260.7	13171.4	8765.8
77.5°	355.4	369.3	424.9	615.5	915.3	782.3	1175.4	5886.8	6601.6	6913.3	3873.6
80°	204.5	216.4	295.8	375.2	619.4	534.1	561.9	2362.7	2436.1	2319.0	1211.1
82.5°	101.2	115.2	176.7	256.1	387.2	359.4	258.1	710.8	750.5	730.6	305.8
85°	23.8	29.8	99.3	168.7	188.6	160.8	125.0	208.4	258.1	252.1	117.1
87.5°	2.0	4.0	35.7	29.8	31.8	53.6	43.7	53.6	83.4	77.4	41.7
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°	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5	2936.5
2.5°	2962.2	2924.6	2815.4	2708.2	2618.8	2525.5	2440.1	2390.5	2370.6	2348.8	2358.7
5°	3004.0	2912.7	2692.3	2501.7	2315.0	2156.2	2029.1	1947.7	1908.0	1902.1	1892.1
7.5°	3059.6	2902.7	2561.2	2263.4	2019.2	1842.5	1697.5	1580.4	1544.7	1512.9	1487.1
10°	3127.1	2884.9	2398.4	2013.2	1753.1	1530.8	1340.2	1201.2	1129.7	1109.8	1123.8
12.5°	3198.6	2851.1	2227.6	1782.9	1483.2	1199.2	1022.5	953.0	933.2	925.2	927.2
15°	3270.0	2809.4	2049.0	1560.5	1181.3	957.0	875.6	857.7	849.8	845.8	841.8
17.5°	3335.6	2741.9	1848.4	1344.2	957.0	818.0	788.2	772.4	756.5	750.5	740.6
20°	3412.9	2664.5	1667.8	1101.9	810.1	740.6	704.9	675.0	651.2	635.3	633.4
22.5°	3486.5	2565.2	1479.2	913.3	738.6	665.2	607.5	575.7	547.9	528.1	534.1
25°	3526.2	2444.1	1310.4	796.2	673.1	589.7	526.2	486.4	456.6	446.7	444.7
27.5°	3526.2	2295.2	1145.6	728.7	613.5	522.2	456.6	418.9	399.1	385.2	387.2
30°	3498.4	2130.4	992.7	677.1	561.9	462.6	401.1	367.3	351.4	341.5	339.5
32.5°	3476.5	1973.6	861.7	627.4	508.2	411.0	357.4	331.6	315.7	305.8	305.8
35°	3510.3	1838.5	760.4	577.8	458.6	371.3	323.6	299.8	283.9	276.0	274.0
37.5°	3599.6	1715.4	683.0	524.1	413.0	337.6	299.8	272.0	256.1	246.2	242.3
40°	3820.0	1645.9	625.4	474.5	369.3	309.8	272.0	246.2	226.4	216.4	214.5
42.5°	4173.4	1647.9	569.8	428.8	335.5	285.9	248.2	218.4	196.5	186.7	184.6
45°	4705.5	1723.4	526.2	385.2	305.8	260.1	222.4	190.6	170.8	160.8	160.8
47.5°	5342.8	1870.3	488.4	347.4	278.0	236.2	196.5	164.8	144.9	137.0	137.0
50°	6033.7	2060.9	450.7	307.7	254.2	210.5	168.7	143.0	127.1	121.1	121.1
52.5°	6738.6	2291.2	413.0	276.0	228.3	182.7	144.9	127.1	113.1	109.2	107.2
55°	7663.8	2585.1	373.3	242.3	200.5	156.8	129.0	111.2	95.3	89.3	87.4
57.5°	9087.3	3027.8	329.6	212.4	164.8	131.1	111.2	93.3	75.5	65.5	63.5
60°	10804.8	3567.8	283.9	186.7	133.0	107.2	89.3	71.5	55.6	43.7	41.7
62.5°	12413.0	3911.3	240.2	156.8	105.2	81.4	63.5	53.6	39.7	27.8	25.8
65°	13123.8	3796.1	198.6	127.1	83.4	57.6	41.7	37.7	23.8	11.9	9.9
66°	12887.5	3625.4	182.7	115.2	75.5	49.6	35.7	31.8	17.9	6.0	6.0
67.5°	12190.6	3222.4	158.9	99.3	65.5	39.7	27.8	23.8	9.9	2.0	0.0
70°	10445.4	2606.9	125.0	73.4	47.7	27.8	15.9	11.9	6.0	0.0	0.0
72.5°	8023.2	1941.8	99.3	55.6	33.7	15.9	7.9	4.0	6.0	0.0	0.0
75°	4916.0	1109.8	77.4	41.7	21.8	9.9	6.0	0.0	6.0	2.0	0.0
77.5°	2182.0	498.4	51.6	27.8	15.9	7.9	4.0	0.0	4.0	2.0	0.0
80°	551.9	162.8	29.8	19.9	11.9	6.0	2.0	0.0	4.0	4.0	2.0
82.5°	150.9	59.6	21.8	15.9	9.9	6.0	2.0	0.0	4.0	4.0	4.0
85°	59.6	27.8	19.9	15.9	11.9	6.0	2.0	0.0	4.0	4.0	4.0
87.5°	27.8	19.9	19.9	17.9	13.9	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)