

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: P652515

Luminaire Tested: **GALN-SA7B-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652515
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-SA7B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA 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: 24917.2 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

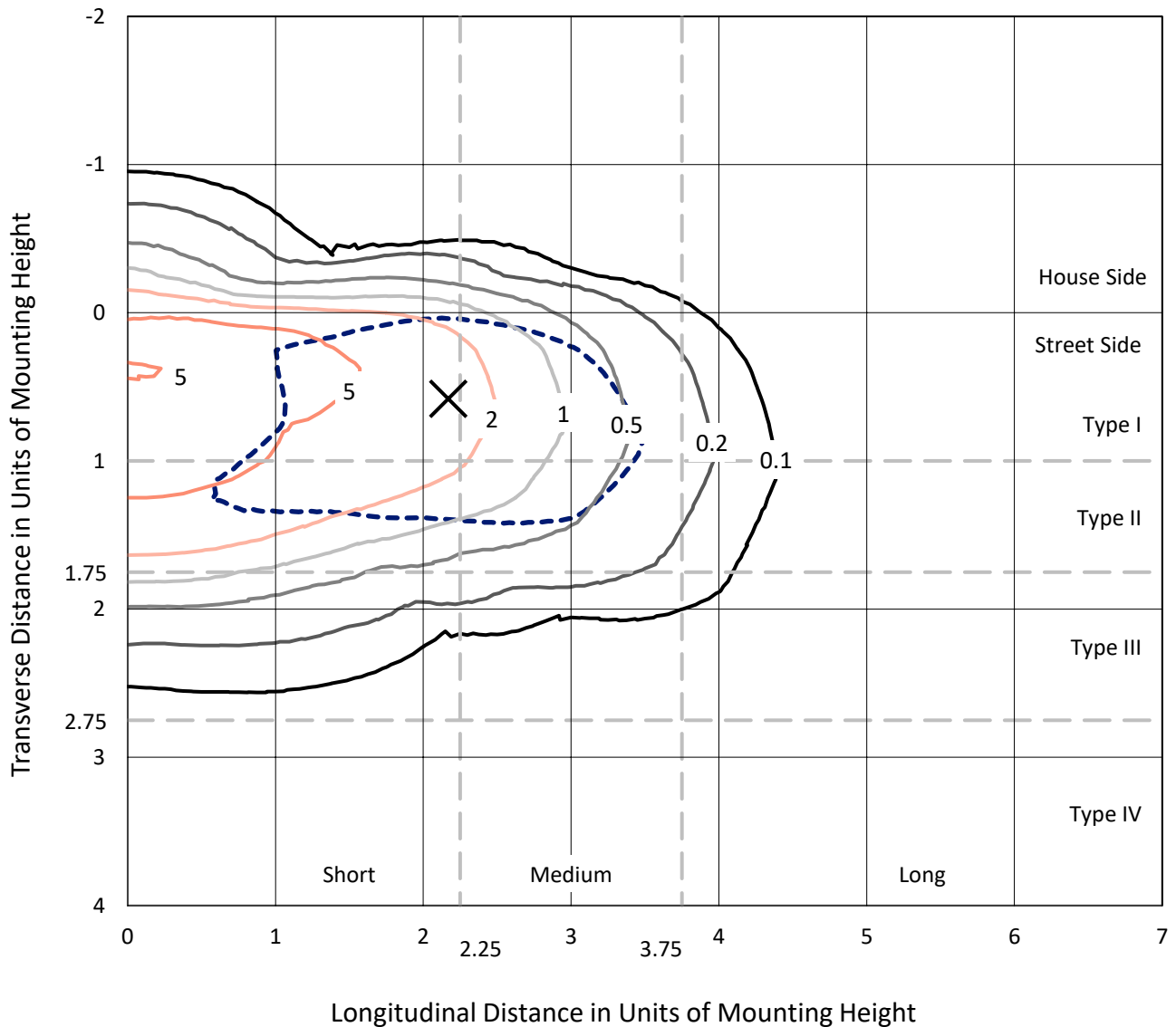
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

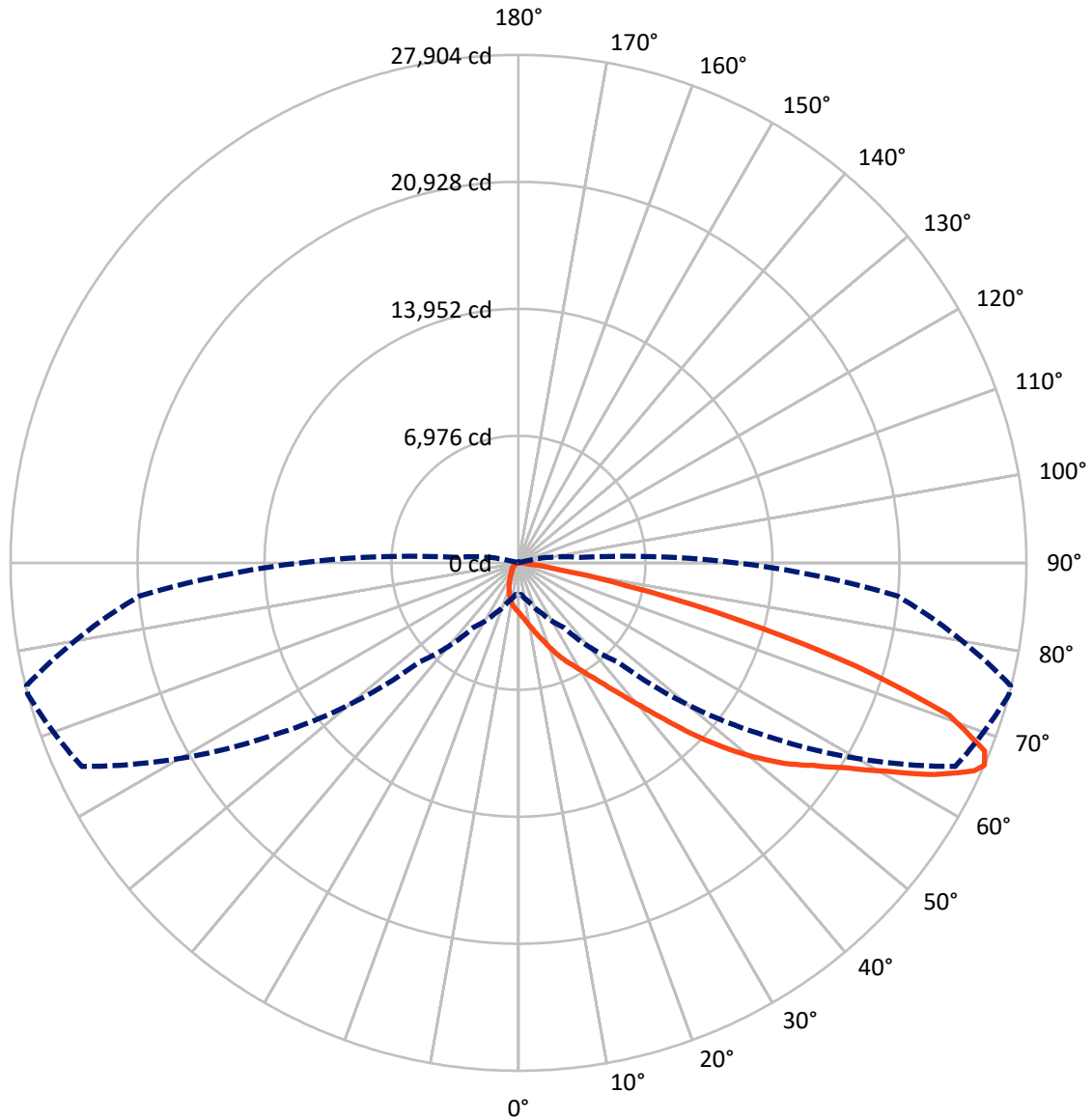
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1538.3	0.0	1538.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	23378.9	0.0	23378.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	24917.2	0.0	24917.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.8	1.1
10°-20°	773.5	3.1
20°-30°	1335.7	5.4
30°-40°	2409.3	9.7
40°-50°	4352.4	17.5
50°-60°	6785.5	27.2
60°-70°	6445.9	25.9
70°-80°	2415.8	9.7
80°-90°	136.3	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°	24917.2	100.0
0°-180°	24917.2	100.0

Coefficient of Utilization

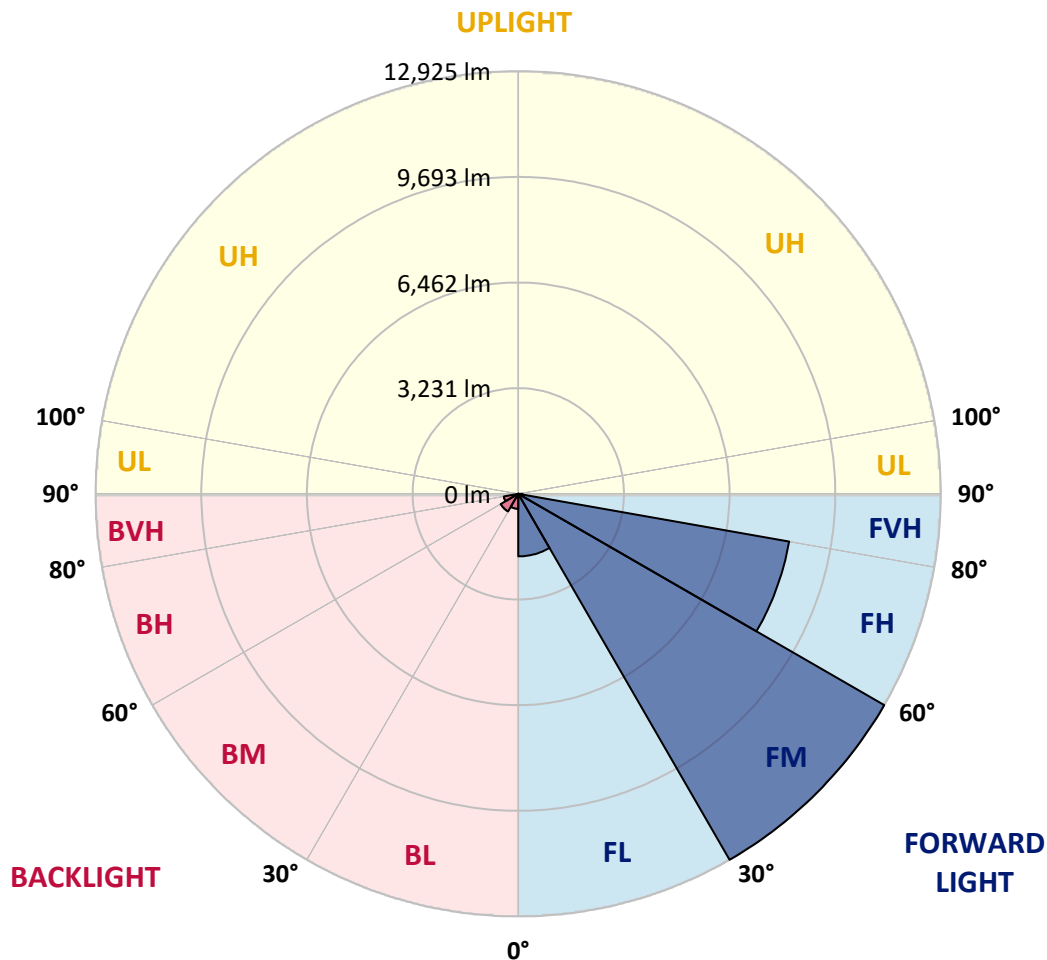


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1912.6	7.7			
FM (30°-60°)	12924.5	51.9			
FH (60°-80°)	8412.5	33.8			G4/12000
FVH (80°-90°)	129.3	0.5			G2/225
BL (0°-30°)	459.4	1.8	B1/500		
BM (30°-60°)	622.7	2.5	B1/1000		
BH (60°-80°)	449.2	1.8	B1/500		G1/500
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9
2.5°	3255.5	3215.1	3227.9	3209.5	3167.1	3104.5	3049.2	2970.0	2890.8	2877.8	2789.4
5°	3684.8	3673.7	3659.0	3605.6	3576.1	3480.3	3366.1	3229.8	3065.8	3036.3	2876.1
7.5°	3977.8	3972.3	3979.6	3952.0	3926.2	3839.6	3718.0	3531.9	3277.6	3261.1	2994.0
10°	4073.6	4088.4	4115.9	4160.2	4200.7	4173.0	4081.0	3848.8	3552.2	3504.3	3128.4
12.5°	4018.3	4034.9	4101.2	4219.1	4350.0	4425.5	4388.7	4219.1	3843.3	3804.6	3279.5
15°	3876.4	3896.7	3990.7	4173.0	4407.1	4620.8	4712.9	4591.3	4182.3	4119.6	3461.9
17.5°	3666.4	3695.9	3830.4	4071.8	4392.3	4760.8	5020.6	4980.1	4543.4	4484.5	3660.9
20°	3508.0	3530.1	3644.3	3920.7	4329.7	4838.2	5313.5	5427.7	4989.2	4888.0	3894.8
22.5°	3613.0	3620.3	3659.0	3824.9	4217.3	4858.5	5571.5	5893.9	5462.8	5372.5	4138.1
25°	4127.0	4053.3	4014.6	3977.8	4193.3	4840.0	5805.4	6380.3	5934.4	5838.6	4379.4
27.5°	4937.7	4904.5	4709.2	4447.6	4397.8	4864.0	5960.3	6840.9	6378.5	6275.3	4615.2
30°	5820.2	5763.1	5643.4	5260.1	4875.0	5033.5	6072.6	7288.6	6903.5	6767.2	4830.8
32.5°	6630.9	6667.7	6489.0	6094.7	5648.8	5394.6	6218.2	7776.8	7506.0	7336.5	5081.4
35°	7576.1	7649.7	7375.2	6997.5	6476.1	6046.8	6501.9	8327.8	8270.6	8056.9	5468.3
37.5°	8535.9	8580.1	8412.5	7881.9	7412.1	6875.9	7036.2	9007.6	9212.1	9029.7	5930.7
40°	9342.9	9403.7	9280.3	8808.6	8307.5	7835.8	7811.9	9748.2	10332.3	10144.4	6619.8
42.5°	9960.1	10006.1	10009.8	9676.4	9225.0	9011.2	8801.2	10693.4	11736.2	11518.8	7419.4
45°	10739.5	10805.8	10767.1	10540.5	10203.3	10164.7	10055.9	11835.7	13416.5	13142.0	8456.7
47.5°	11944.4	11988.6	11892.8	11625.6	11282.9	11343.7	11279.3	13116.2	15129.9	14894.1	9530.8
50°	12780.8	12854.5	12990.9	13097.7	12849.1	12624.3	12432.7	14311.9	16756.8	16544.9	10628.9
52.5°	12771.7	12893.2	13324.4	13862.4	14405.9	14337.7	13786.8	15632.9	18309.9	18048.4	11660.6
55°	11911.3	12147.1	12780.8	13735.2	15240.5	15990.4	15739.8	17162.1	19651.2	19474.4	12856.4
57.5°	10135.1	10278.9	11159.6	12493.5	14774.4	16767.9	18002.3	19234.8	21259.6	21176.7	14713.5
60°	6817.0	6881.4	8014.5	9663.5	12578.2	15992.2	19660.5	21742.4	23240.3	23199.7	16882.1
62.5°	3905.9	3933.5	4755.3	6146.3	8950.4	13552.8	19800.5	24835.8	25615.2	25637.2	19391.4
65°	2102.2	2117.0	2780.2	3607.5	5446.1	9659.8	17805.1	26530.9	27534.9	27577.3	20946.5
66°	1814.8	1744.7	2212.8	3075.0	4333.3	7688.4	16543.1	26470.1	27903.5	27857.4	20891.2
67.5°	1380.0	1442.7	1766.9	2363.8	3211.4	5466.4	13657.8	25292.7	27623.4	27479.7	20041.8
70°	987.5	1013.3	1258.4	1685.8	2186.9	2999.4	8727.6	21007.3	25106.6	24913.2	17460.6
72.5°	637.5	665.1	891.7	1219.7	1580.8	1637.9	4886.1	15177.9	19356.5	19328.8	13149.4
75°	455.1	480.9	589.5	873.3	1188.3	1013.3	2352.8	10229.1	12305.5	12222.6	8134.2
77.5°	329.8	342.7	394.3	571.1	849.3	726.0	1090.7	5462.8	6126.0	6415.3	3594.5
80°	189.7	200.8	274.5	348.3	574.8	495.6	521.4	2192.5	2260.6	2152.0	1123.9
82.5°	93.9	106.9	164.0	237.7	359.3	333.5	239.5	659.6	696.4	678.0	283.8
85°	22.1	27.7	92.1	156.6	175.0	149.3	116.1	193.4	239.5	234.0	108.7
87.5°	1.9	3.7	33.1	27.7	29.5	49.8	40.5	49.8	77.4	71.8	38.7
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°	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9	2724.9
2.5°	2748.9	2713.9	2612.6	2513.1	2430.2	2343.5	2264.3	2218.3	2199.9	2179.6	2188.8
5°	2787.6	2702.8	2498.4	2321.4	2148.3	2000.9	1882.9	1807.4	1770.6	1765.0	1755.8
7.5°	2839.1	2693.6	2376.8	2100.4	1873.7	1709.8	1575.3	1466.5	1433.4	1403.9	1380.0
10°	2901.8	2677.1	2225.6	1868.2	1626.8	1420.5	1243.7	1114.7	1048.3	1029.9	1042.8
12.5°	2968.1	2645.7	2067.2	1654.5	1376.3	1112.8	948.8	884.4	866.0	858.6	860.4
15°	3034.5	2607.0	1901.4	1448.1	1096.2	888.0	812.5	795.9	788.5	784.9	781.2
17.5°	3095.3	2544.4	1715.3	1247.3	888.0	759.1	731.4	716.7	702.0	696.4	687.2
20°	3167.1	2472.5	1547.6	1022.6	751.7	687.2	654.0	626.5	604.3	589.5	587.7
22.5°	3235.3	2380.4	1372.6	847.5	685.4	617.2	563.8	534.3	508.5	490.1	495.6
25°	3272.2	2268.0	1216.0	738.8	624.6	547.2	488.2	451.4	423.8	414.5	412.7
27.5°	3272.2	2129.8	1063.1	676.2	569.3	484.6	423.8	388.7	370.3	357.4	359.3
30°	3246.3	1976.9	921.2	628.2	521.4	429.2	372.1	340.9	326.1	316.9	315.0
32.5°	3226.1	1831.4	799.6	582.2	471.6	381.4	331.6	307.7	292.9	283.8	283.8
35°	3257.4	1706.1	705.7	536.1	425.6	344.6	300.3	278.2	263.5	256.1	254.2
37.5°	3340.3	1591.8	633.8	486.4	383.2	313.2	278.2	252.4	237.7	228.5	224.8
40°	3544.8	1527.3	580.4	440.3	342.7	287.5	252.4	228.5	210.0	200.8	199.0
42.5°	3872.7	1529.2	528.7	398.0	311.3	265.3	230.3	202.7	182.4	173.2	171.3
45°	4366.6	1599.2	488.2	357.4	283.8	241.4	206.4	176.9	158.4	149.3	149.3
47.5°	4957.9	1735.6	453.2	322.4	257.9	219.2	182.4	152.9	134.5	127.2	127.2
50°	5599.1	1912.4	418.2	285.6	235.8	195.3	156.6	132.6	117.9	112.4	112.4
52.5°	6253.2	2126.1	383.2	256.1	211.8	169.5	134.5	117.9	105.0	101.3	99.5
55°	7111.7	2398.9	346.4	224.8	186.1	145.6	119.8	103.2	88.5	82.9	81.1
57.5°	8432.7	2809.7	305.9	197.1	152.9	121.6	103.2	86.6	70.0	60.8	59.0
60°	10026.4	3310.8	263.5	173.2	123.5	99.5	82.9	66.4	51.6	40.5	38.7
62.5°	11518.8	3629.6	222.9	145.6	97.6	75.5	59.0	49.8	36.8	25.8	24.0
65°	12178.4	3522.7	184.3	117.9	77.4	53.4	38.7	35.0	22.1	11.0	9.3
66°	11959.1	3364.3	169.5	106.9	70.0	46.1	33.1	29.5	16.6	5.6	5.6
67.5°	11312.5	2990.3	147.4	92.1	60.8	36.8	25.8	22.1	9.3	1.9	0.0
70°	9692.9	2419.1	116.1	68.2	44.2	25.8	14.7	11.0	5.6	0.0	0.0
72.5°	7445.2	1801.9	92.1	51.6	31.3	14.7	7.4	3.7	5.6	0.0	0.0
75°	4561.8	1029.9	71.8	38.7	20.3	9.3	5.6	0.0	5.6	1.9	0.0
77.5°	2024.8	462.5	47.9	25.8	14.7	7.4	3.7	0.0	3.7	1.9	0.0
80°	512.2	151.0	27.7	18.4	11.0	5.6	1.9	0.0	3.7	3.7	1.9
82.5°	140.0	55.3	20.3	14.7	9.3	5.6	1.9	0.0	3.7	3.7	3.7
85°	55.3	25.8	18.4	14.7	11.0	5.6	1.9	0.0	3.7	3.7	3.7
87.5°	25.8	18.4	18.4	16.6	12.9	5.6	1.9	0.0	3.7	1.9	3.7
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)