

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: P648610

Luminaire Tested: **GALN-SA8B-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648610
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-SA8B-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 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: 26895.3 lumens
Efficiency: N/A
Efficacy: 82.8 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

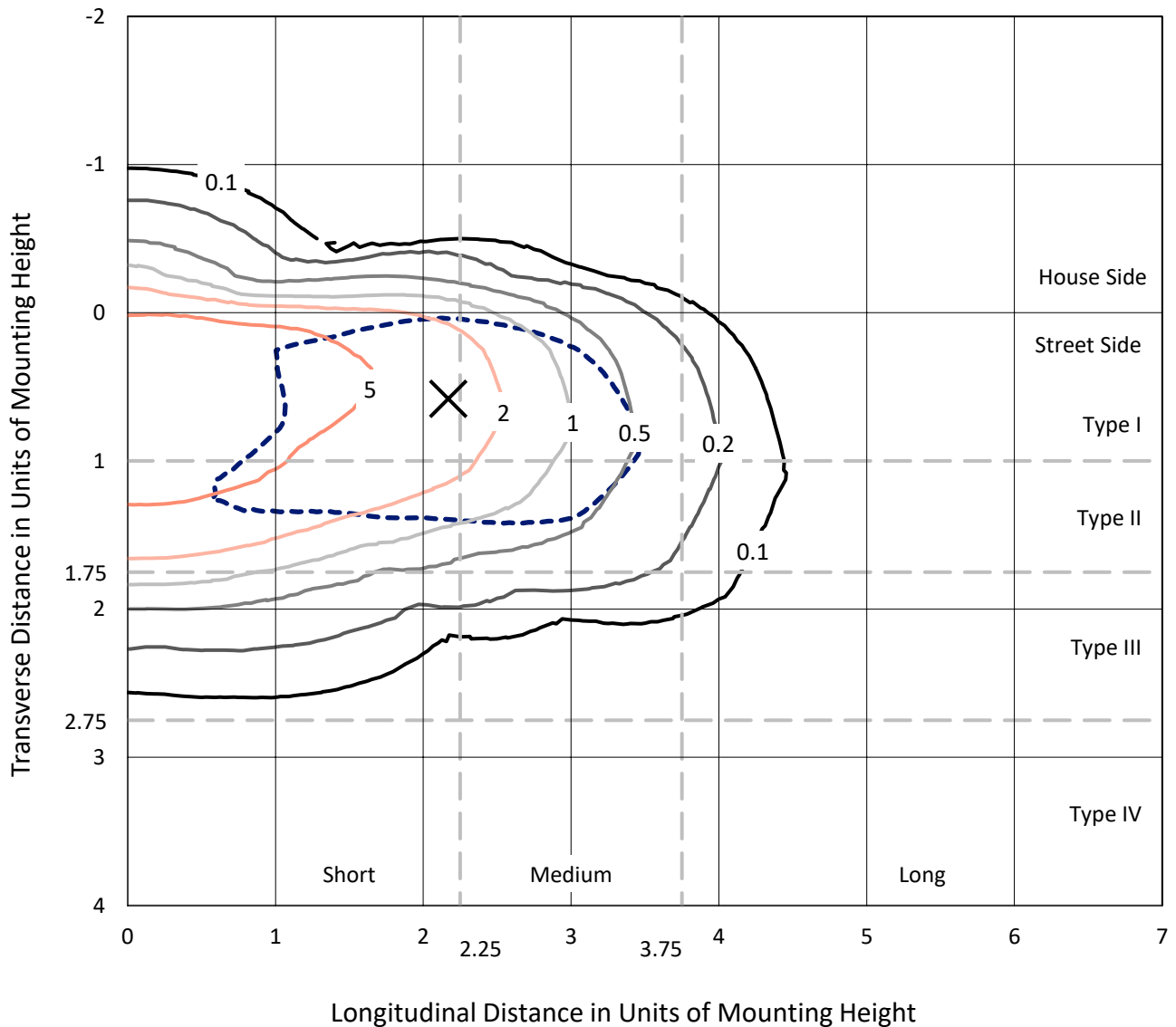
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

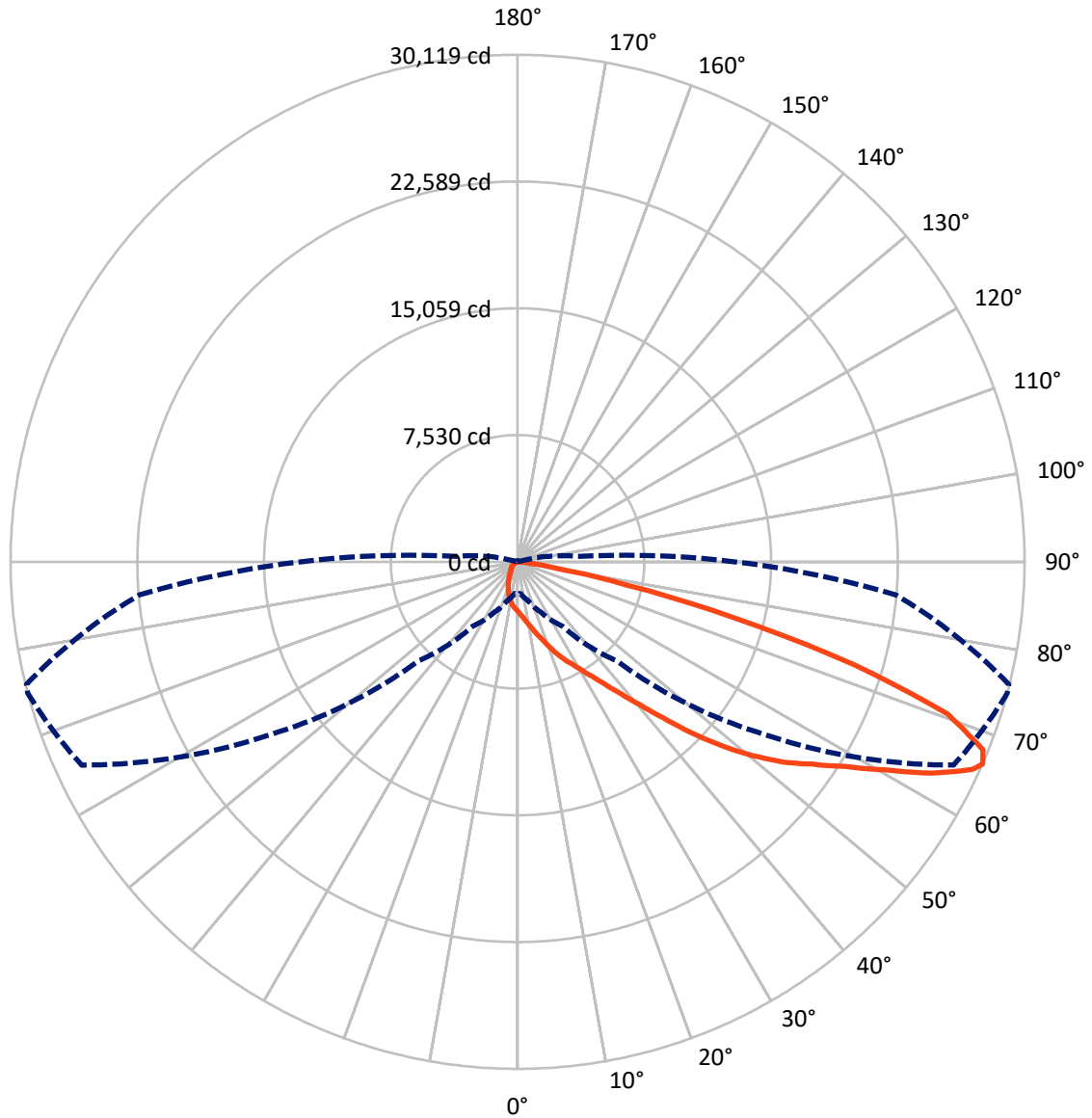
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	1660.4	0.0	1660.4
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25234.9	0.0	25234.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	26895.3	0.0	26895.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.7	1.1
10°-20°	834.9	3.1
20°-30°	1441.7	5.4
30°-40°	2600.5	9.7
40°-50°	4698.0	17.5
50°-60°	7324.1	27.2
60°-70°	6957.6	25.9
70°-80°	2607.6	9.7
80°-90°	147.1	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°	26895.3	100.0
0°-180°	26895.3	100.0

Coefficient of Utilization

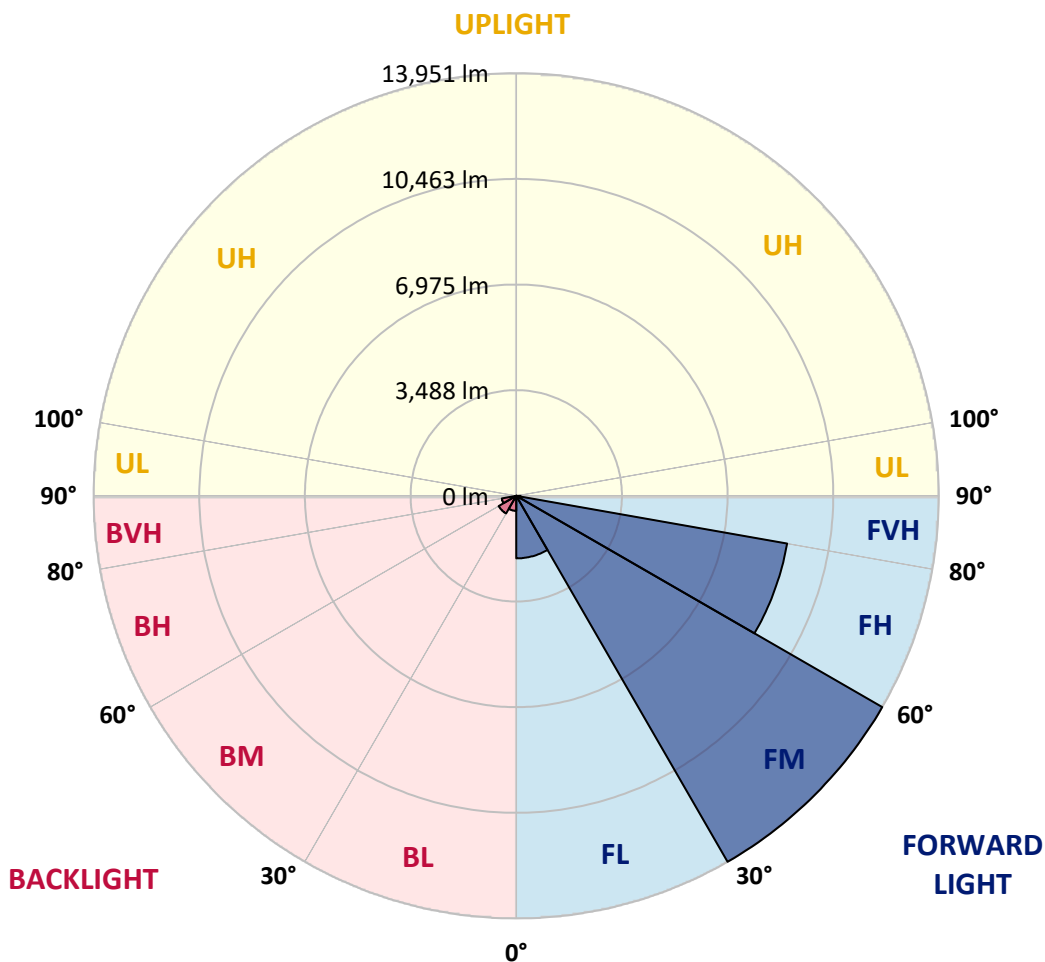


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2064.4	7.7			
FM (30°-60°)	13950.6	51.9			
FH (60°-80°)	9080.3	33.8			G4/12000
FVH (80°-90°)	139.5	0.5			G2/225
BL (0°-30°)	495.9	1.8	B1/500		
BM (30°-60°)	672.1	2.5	B1/1000		
BH (60°-80°)	484.9	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°	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3
2.5°	3514.0	3470.3	3484.2	3464.3	3418.6	3350.9	3291.3	3205.8	3120.3	3106.3	3010.9
5°	3977.4	3965.4	3949.5	3891.8	3860.0	3756.6	3633.4	3486.2	3309.2	3277.3	3104.4
7.5°	4293.6	4287.6	4295.5	4265.7	4237.9	4144.4	4013.2	3812.3	3537.9	3520.0	3231.6
10°	4397.0	4412.9	4442.7	4490.4	4534.2	4504.4	4404.9	4154.4	3834.2	3782.4	3376.8
12.5°	4337.4	4355.2	4426.8	4554.1	4695.3	4776.8	4737.1	4554.1	4148.4	4106.6	3539.9
15°	4184.2	4206.0	4307.5	4504.4	4757.0	4987.6	5087.1	4955.8	4514.3	4446.7	3736.7
17.5°	3957.5	3989.3	4134.5	4395.0	4741.0	5138.8	5419.1	5375.4	4904.1	4840.4	3951.5
20°	3786.4	3810.3	3933.6	4231.9	4673.4	5222.3	5735.4	5858.6	5385.3	5276.0	4204.1
22.5°	3899.8	3907.8	3949.5	4128.5	4552.1	5244.1	6013.8	6361.8	5896.5	5799.0	4466.5
25°	4454.6	4375.1	4333.4	4293.6	4526.2	5224.3	6266.3	6886.8	6405.6	6302.1	4727.1
27.5°	5329.6	5293.9	5083.1	4800.7	4747.0	5250.1	6433.4	7384.0	6884.8	6773.4	4981.7
30°	6282.2	6220.6	6091.3	5677.7	5262.1	5433.1	6554.7	7867.3	7451.6	7304.5	5214.3
32.5°	7157.2	7197.0	7004.2	6578.5	6097.3	5822.9	6711.8	8394.2	8101.9	7918.9	5484.8
35°	8177.5	8257.0	7960.7	7553.1	6990.2	6526.9	7018.0	8988.8	8927.2	8696.5	5902.4
37.5°	9213.6	9261.3	9080.3	8507.6	8000.5	7421.7	7594.8	9722.7	9943.4	9746.5	6401.6
40°	10084.6	10150.3	10017.0	9507.9	8967.0	8457.9	8432.0	10522.1	11152.5	10949.7	7145.3
42.5°	10750.8	10800.5	10804.5	10444.6	9957.3	9726.7	9499.9	11542.4	12667.9	12433.3	8008.4
45°	11592.0	11663.6	11621.8	11377.2	11013.4	10971.6	10854.3	12775.3	14481.6	14185.3	9128.1
47.5°	12892.6	12940.3	12837.0	12548.6	12178.7	12244.3	12174.7	14157.4	16331.1	16076.6	10287.4
50°	13795.5	13875.1	14022.2	14137.5	13869.0	13626.5	13419.6	15448.1	18087.1	17858.4	11472.8
52.5°	13785.6	13916.8	14382.1	14962.9	15549.5	15475.9	14881.3	16874.0	19763.5	19481.1	12586.4
55°	12856.9	13111.4	13795.5	14825.6	16450.4	17259.8	16989.3	18524.6	21211.3	21020.4	13877.0
57.5°	10939.8	11094.9	12045.4	13485.3	15947.3	18099.0	19431.4	20761.9	22947.5	22858.0	15881.7
60°	7358.2	7427.8	8650.7	10430.7	13576.8	17261.8	21221.3	23468.5	25085.3	25041.5	18222.3
62.5°	4216.0	4245.8	5132.8	6634.3	9661.0	14628.8	21372.4	26807.5	27648.7	27672.6	20930.9
65°	2269.1	2285.0	3000.9	3893.9	5878.5	10426.7	19218.7	28637.1	29720.9	29766.6	22609.4
66°	1958.8	1883.3	2388.4	3319.1	4677.4	8298.8	17856.4	28571.4	30118.6	30068.9	22549.7
67.5°	1489.5	1557.2	1907.2	2551.5	3466.3	5900.5	14742.1	27300.6	29816.3	29661.2	21632.9
70°	1065.9	1093.8	1358.3	1819.6	2360.6	3237.5	9420.4	22675.0	27099.8	26891.0	18846.7
72.5°	688.1	717.9	962.5	1316.5	1706.3	1767.9	5274.0	16382.8	20893.1	20863.3	14193.2
75°	491.2	519.1	636.3	942.7	1282.7	1093.8	2539.6	11041.2	13282.4	13192.9	8780.0
77.5°	356.0	369.9	425.6	616.5	916.8	783.5	1177.3	5896.5	6612.4	6924.6	3879.9
80°	204.8	216.7	296.3	375.8	620.4	534.9	562.8	2366.5	2440.1	2322.8	1213.1
82.5°	101.4	115.3	177.0	256.5	387.8	359.9	258.5	712.0	751.8	731.9	306.2
85°	23.9	29.8	99.4	169.0	188.9	161.1	125.3	208.8	258.5	252.6	117.3
87.5°	2.0	4.0	35.8	29.8	31.8	53.7	43.8	53.7	83.5	77.6	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°	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3	2941.3
2.5°	2967.1	2929.4	2820.0	2712.5	2623.0	2529.6	2444.1	2394.4	2374.5	2352.6	2362.5
5°	3008.9	2917.4	2696.7	2505.8	2318.8	2159.7	2032.4	1950.9	1911.1	1905.2	1895.3
7.5°	3064.6	2907.4	2565.4	2267.1	2022.5	1845.5	1700.4	1583.0	1547.2	1515.3	1489.5
10°	3132.2	2889.6	2402.3	2016.5	1756.0	1533.3	1342.4	1203.2	1131.6	1111.7	1125.6
12.5°	3203.8	2855.8	2231.3	1785.9	1485.6	1201.2	1024.2	954.6	934.7	926.8	928.7
15°	3275.4	2814.0	2052.3	1563.1	1183.3	958.5	877.0	859.1	851.1	847.2	843.2
17.5°	3341.0	2746.4	1851.5	1346.4	958.5	819.3	789.5	773.6	757.7	751.8	741.8
20°	3418.6	2668.8	1670.5	1103.7	811.3	741.8	706.0	676.1	652.3	636.3	634.4
22.5°	3492.1	2569.4	1481.6	914.8	739.8	666.2	608.5	576.7	548.9	529.0	534.9
25°	3531.9	2448.0	1312.5	797.5	674.2	590.6	527.0	487.3	457.4	447.5	445.4
27.5°	3531.9	2298.9	1147.5	729.8	614.5	523.0	457.4	419.6	399.7	385.8	387.8
30°	3504.1	2133.8	994.3	678.2	562.8	463.4	401.7	367.9	352.0	342.1	340.1
32.5°	3482.2	1976.8	863.1	628.4	509.1	411.6	358.0	332.1	316.2	306.2	306.2
35°	3516.0	1841.5	761.7	578.7	459.4	371.8	324.2	300.3	284.4	276.4	274.4
37.5°	3605.5	1718.2	684.1	525.0	413.7	338.1	300.3	272.5	256.5	246.6	242.7
40°	3826.2	1648.6	626.4	475.3	369.9	310.2	272.5	246.6	226.7	216.7	214.8
42.5°	4180.2	1650.6	570.7	429.6	336.1	286.3	248.6	218.8	196.8	186.9	184.9
45°	4713.2	1726.2	527.0	385.8	306.2	260.5	222.8	190.9	171.0	161.1	161.1
47.5°	5351.6	1873.3	489.2	348.0	278.4	236.6	196.8	165.1	145.2	137.2	137.2
50°	6043.6	2064.2	451.4	308.3	254.6	210.8	169.0	143.2	127.2	121.3	121.3
52.5°	6749.6	2295.0	413.7	276.4	228.7	183.0	145.2	127.2	113.4	109.4	107.4
55°	7676.3	2589.3	373.9	242.7	200.8	157.1	129.3	111.3	95.4	89.5	87.5
57.5°	9102.2	3032.7	330.1	212.8	165.1	131.2	111.3	93.5	75.6	65.6	63.7
60°	10822.4	3573.7	284.4	186.9	133.3	107.4	89.5	71.6	55.7	43.8	41.7
62.5°	12433.3	3917.7	240.6	157.1	105.4	81.5	63.7	53.7	39.8	27.9	25.8
65°	13145.2	3802.3	198.9	127.2	83.5	57.7	41.7	37.8	23.9	11.9	9.9
66°	12908.5	3631.3	183.0	115.3	75.6	49.7	35.8	31.8	17.9	6.0	6.0
67.5°	12210.5	3227.6	159.1	99.4	65.6	39.8	27.9	23.9	9.9	2.0	0.0
70°	10462.4	2611.1	125.3	73.6	47.8	27.9	15.9	11.9	6.0	0.0	0.0
72.5°	8036.2	1944.9	99.4	55.7	33.8	15.9	8.0	4.0	6.0	0.0	0.0
75°	4924.0	1111.7	77.6	41.7	21.8	9.9	6.0	0.0	6.0	2.0	0.0
77.5°	2185.6	499.2	51.7	27.9	15.9	8.0	4.0	0.0	4.0	2.0	0.0
80°	552.9	163.1	29.8	19.9	11.9	6.0	2.0	0.0	4.0	4.0	2.0
82.5°	151.1	59.7	21.8	15.9	9.9	6.0	2.0	0.0	4.0	4.0	4.0
85°	59.7	27.9	19.9	15.9	11.9	6.0	2.0	0.0	4.0	4.0	4.0
87.5°	27.9	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)