

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: P647607

Luminaire Tested: **GALN-SA8D-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40233.7 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

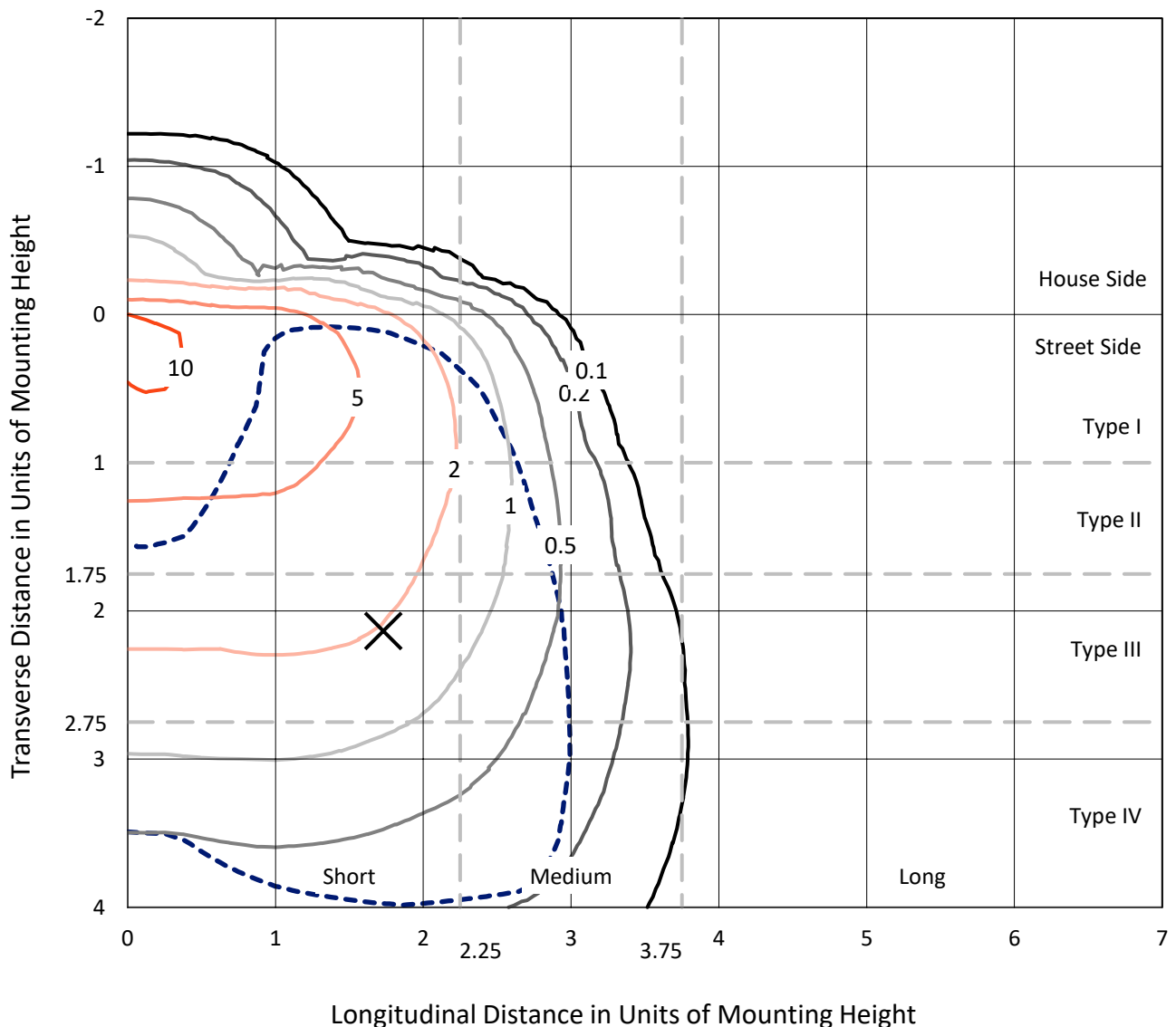
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

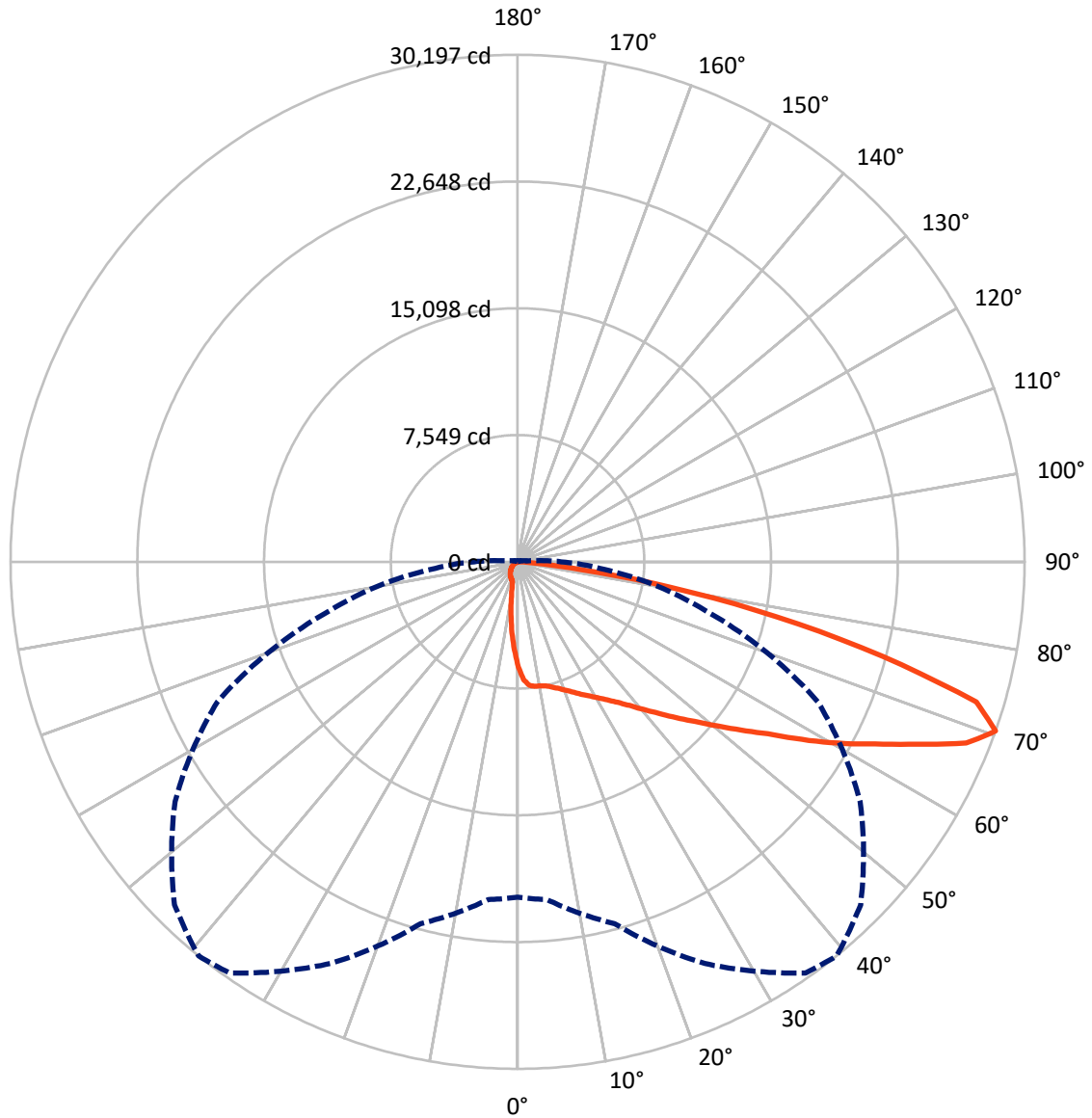
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2623.4	0.0	2623.4
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	37610.2	0.0	37610.2
	% Fixture	93.5	0.0	93.5
Total	Lumens	40233.7	0.0	40233.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.5	1.3
10°-20°	1391.5	3.5
20°-30°	2331.1	5.8
30°-40°	3615.3	9.0
40°-50°	5729.2	14.2
50°-60°	8398.1	20.9
60°-70°	10764.4	26.8
70°-80°	6764.0	16.8
80°-90°	704.6	1.8
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°	40233.7	100.0
0°-180°	40233.7	100.0

Coefficient of Utilization



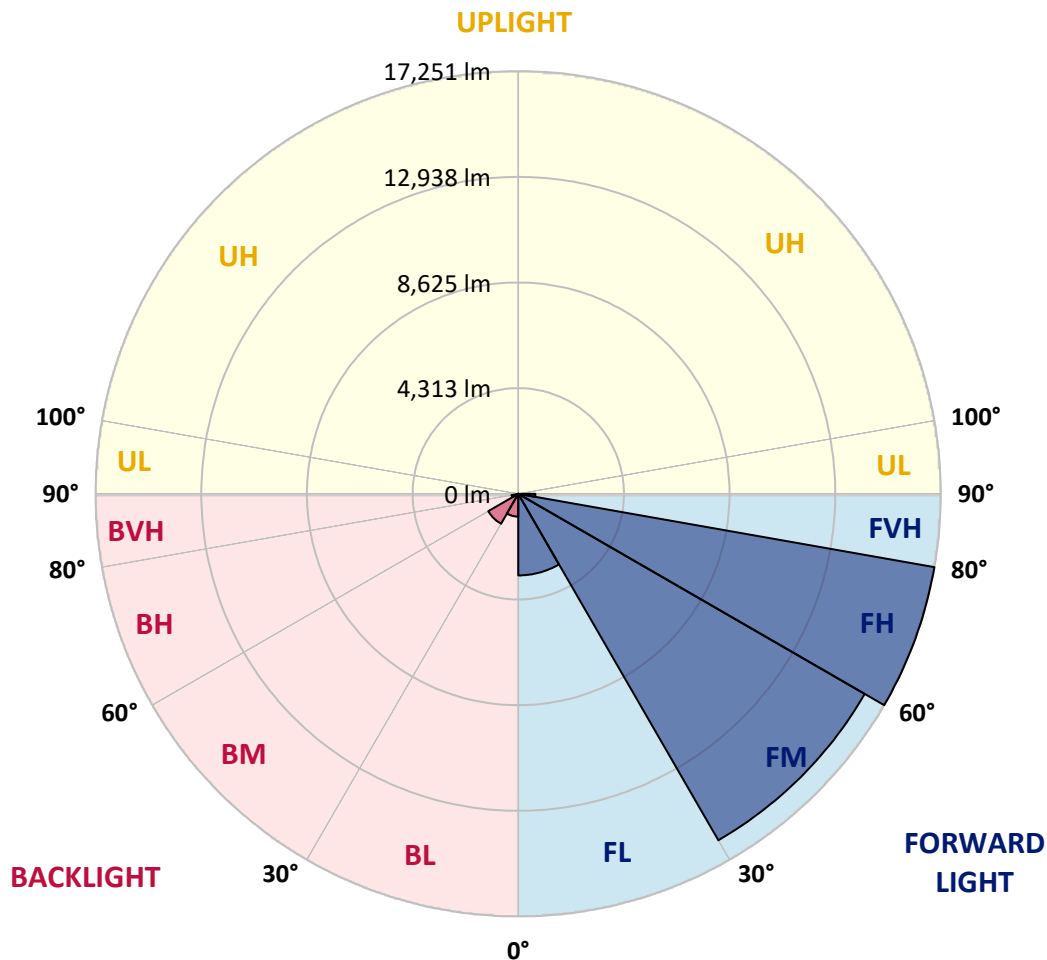
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3329.1	8.3			
FM (30°-60°)	16330.8	40.6			
FH (60°-80°)	17250.9	42.9			G5
FVH (80°-90°)	699.5	1.7			G4/750
BL (0°-30°)	928.9	2.3	B2/1000		
BM (30°-60°)	1411.8	3.5	B2/2500		
BH (60°-80°)	277.5	0.7	B1/500		G1/500
BVH (80°-90°)	5.2	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9
2.5°	7253.9	7229.5	7197.1	7159.2	7051.1	7032.1	6967.3	6829.4	6664.4	6529.3	6342.7
5°	7597.2	7610.8	7586.4	7518.8	7440.4	7394.4	7313.3	7099.8	6886.2	6613.1	6307.5
7.5°	7675.6	7702.7	7672.9	7608.0	7532.3	7483.7	7418.8	7234.9	6986.2	6675.2	6256.2
10°	7667.5	7699.9	7681.0	7621.6	7559.3	7513.4	7443.1	7297.1	7097.0	6769.9	6272.5
12.5°	7654.0	7697.2	7694.5	7664.8	7613.4	7578.3	7535.0	7405.2	7218.7	6907.8	6361.6
15°	7616.2	7670.2	7718.9	7743.2	7745.9	7745.9	7691.8	7553.9	7375.5	7088.9	6477.9
17.5°	7632.4	7694.5	7816.2	7886.5	7935.2	7929.8	7873.0	7724.3	7526.9	7275.5	6599.6
20°	7732.4	7816.2	7986.5	8127.1	8175.8	8159.6	8083.8	7910.8	7686.4	7435.0	6718.5
22.5°	7978.4	8054.1	8267.7	8432.6	8467.8	8424.5	8316.4	8081.2	7878.4	7608.0	6861.8
25°	8346.1	8435.3	8632.7	8757.1	8757.1	8732.7	8581.3	8305.6	8094.7	7848.6	7048.3
27.5°	8792.2	8867.9	9062.6	9173.4	9108.6	9038.2	8886.8	8554.3	8351.6	8151.4	7272.7
30°	9243.7	9292.4	9497.9	9546.5	9478.9	9389.7	9227.5	8895.0	8716.5	8562.4	7597.2
32.5°	9670.9	9776.3	9946.7	9935.9	9844.0	9800.7	9652.0	9297.8	9197.7	9181.5	8051.4
35°	10098.0	10179.2	10330.6	10368.4	10287.3	10279.2	10171.1	9908.8	9911.5	10016.9	8759.7
37.5°	10465.7	10538.8	10717.2	10801.0	10817.2	10857.8	10814.6	10641.5	10887.5	11176.8	9697.9
40°	10774.0	10876.7	11103.8	11249.8	11417.5	11566.2	11574.2	11612.1	12106.8	12604.3	10922.7
42.5°	11014.6	11157.9	11487.7	11758.1	12142.0	12331.2	12482.7	12690.9	13523.6	14267.0	12366.4
45°	11328.2	11493.1	11904.1	12328.6	12928.7	13239.7	13450.5	14007.5	15189.0	16202.9	13848.0
47.5°	11847.3	11933.9	12352.9	12972.0	13761.5	14204.9	14615.9	15459.4	16976.1	17884.5	15080.9
50°	12515.1	12571.9	12888.2	13748.0	14770.0	15353.9	16102.9	17095.1	18830.8	19279.6	15778.4
52.5°	13253.2	13272.2	13510.0	14602.3	15900.1	16635.5	17473.6	18698.4	20342.1	20274.5	16240.8
55°	14110.3	14083.2	14286.0	15529.6	17238.4	18079.2	19055.2	20339.4	21653.4	20980.2	16505.6
57.5°	15091.7	15018.6	15216.0	16759.8	18952.4	19958.2	20950.4	21756.1	22670.0	21572.3	16632.7
60°	16119.1	15973.0	16208.3	18141.4	20972.1	21926.4	22751.1	22967.3	23740.6	22042.7	16413.7
62.5°	16938.2	16941.0	17378.9	19612.1	23048.5	23883.8	24321.9	24516.5	24662.5	21940.0	15262.0
65°	18217.0	18260.3	18960.6	21653.4	25452.0	26176.6	26476.7	25844.0	24703.1	20663.8	13531.6
67.5°	19536.5	19674.4	20955.8	24465.1	28228.6	28812.6	28426.0	26100.8	23600.0	17752.0	10260.3
70°	19966.3	20193.4	22304.9	26401.0	29894.1	30196.9	28888.3	24903.2	19728.4	11868.9	5164.0
72.5°	18295.5	18663.2	21529.1	25695.3	28831.5	28569.2	25846.8	20885.6	12542.2	4506.9	1576.2
75°	12901.7	13064.0	17892.6	21315.5	23189.0	22445.6	19660.8	13464.1	5158.6	1265.3	540.7
77.5°	6661.8	6583.3	10641.5	14142.7	16538.1	15767.6	12874.7	6970.0	1954.8	527.2	335.3
80°	3444.4	3501.2	4604.3	7410.6	10095.4	9289.7	6864.5	3230.8	1040.9	292.0	256.8
82.5°	1930.4	1811.5	2646.9	3236.2	4720.6	3701.2	2633.3	2287.3	454.2	175.7	243.4
85°	351.5	367.7	1451.8	1749.2	1638.4	1040.9	848.9	1527.6	132.5	97.3	170.3
87.5°	5.4	5.4	281.2	502.8	319.0	146.0	267.6	219.0	27.0	37.8	29.8
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°	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9	6277.9
2.5°	6248.1	6145.4	5953.4	5764.1	5523.5	5326.1	5193.6	5055.8	4915.2	4926.0	4958.4
5°	6140.0	5961.5	5583.0	5182.8	4798.9	4452.8	4112.2	3806.7	3682.4	3568.8	3574.2
7.5°	6031.8	5780.3	5226.1	4598.9	4017.6	3428.2	3001.0	2649.6	2463.0	2322.5	2281.9
10°	5983.1	5650.6	4899.0	4036.5	3211.9	2568.5	2019.6	1733.0	1511.3	1441.0	1460.0
12.5°	6004.7	5585.7	4604.3	3528.3	2546.8	1789.8	1405.9	1259.9	1211.2	1203.1	1197.7
15°	6045.3	5539.7	4315.0	2965.8	1870.9	1330.2	1181.5	1154.5	1149.1	1143.6	1146.3
17.5°	6099.4	5499.2	4006.8	2438.7	1435.6	1162.6	1119.3	1105.8	1103.1	1103.1	1103.1
20°	6153.4	5453.2	3663.4	1968.2	1197.7	1097.7	1070.7	1062.5	1059.8	1059.8	1057.1
22.5°	6215.6	5412.6	3314.7	1546.5	1103.1	1051.7	1027.4	1022.0	1019.2	1016.6	1016.6
25°	6304.9	5361.3	2944.2	1265.3	1043.6	1008.4	984.2	978.8	976.0	965.2	967.9
27.5°	6423.8	5323.5	2563.1	1092.3	989.6	954.4	938.2	930.0	924.6	916.5	919.2
30°	6586.0	5291.0	2157.5	997.6	927.3	897.6	881.3	875.9	870.5	862.5	862.5
32.5°	6867.2	5304.5	1730.4	921.9	870.5	835.5	819.2	813.8	808.4	800.3	800.3
35°	7289.0	5383.0	1384.3	857.1	803.0	767.8	751.6	751.6	743.5	732.7	730.0
37.5°	7978.4	5583.0	1111.2	794.9	738.1	705.6	686.7	681.3	673.2	657.0	654.3
40°	8792.2	5894.0	935.5	732.7	678.6	646.1	629.9	613.7	592.1	575.9	573.2
42.5°	9814.2	6212.9	811.1	670.5	621.9	592.1	573.2	546.1	513.7	492.0	489.4
45°	10879.4	6504.9	727.3	613.7	567.8	543.4	521.8	478.6	438.0	410.9	408.3
47.5°	11674.3	6559.0	659.7	559.7	521.8	497.4	467.8	413.7	359.6	335.3	327.1
50°	12050.1	6296.7	589.4	505.6	475.8	448.8	410.9	348.7	289.3	259.6	254.2
52.5°	12182.5	5842.5	532.6	456.9	429.9	397.5	351.5	281.2	227.1	197.4	194.7
55°	12128.5	5269.4	481.2	410.9	375.8	337.9	292.0	224.4	167.6	143.3	137.9
57.5°	11844.6	4539.4	429.9	365.0	321.7	283.9	232.6	167.6	113.5	91.9	89.2
60°	11079.4	3544.5	378.5	313.6	273.0	232.6	183.8	118.9	70.3	51.4	51.4
62.5°	9787.1	2630.6	329.9	262.2	229.8	186.6	129.7	75.7	37.8	27.0	24.4
65°	8178.5	1941.2	275.8	221.7	192.0	146.0	91.9	46.0	18.9	8.1	5.4
67.5°	5707.4	1197.7	229.8	181.1	156.8	105.5	56.8	18.9	8.1	0.0	0.0
70°	2592.7	570.5	175.7	137.9	118.9	75.7	29.8	10.8	5.4	0.0	0.0
72.5°	805.7	300.1	124.3	100.1	81.1	48.7	16.2	8.1	5.4	0.0	0.0
75°	373.1	192.0	78.4	54.1	46.0	24.4	10.8	5.4	2.7	0.0	0.0
77.5°	278.5	148.7	46.0	29.8	24.4	16.2	8.1	5.4	2.7	0.0	0.0
80°	243.4	75.7	27.0	18.9	13.5	10.8	5.4	2.7	0.0	0.0	0.0
82.5°	219.0	37.8	16.2	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0
85°	118.9	21.6	10.8	8.1	5.4	2.7	2.7	0.0	0.0	0.0	0.0
87.5°	21.6	10.8	8.1	5.4	5.4	2.7	2.7	2.7	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)