

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: P458432

Luminaire Tested: **GALN-SA9D-760-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-760-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57397 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

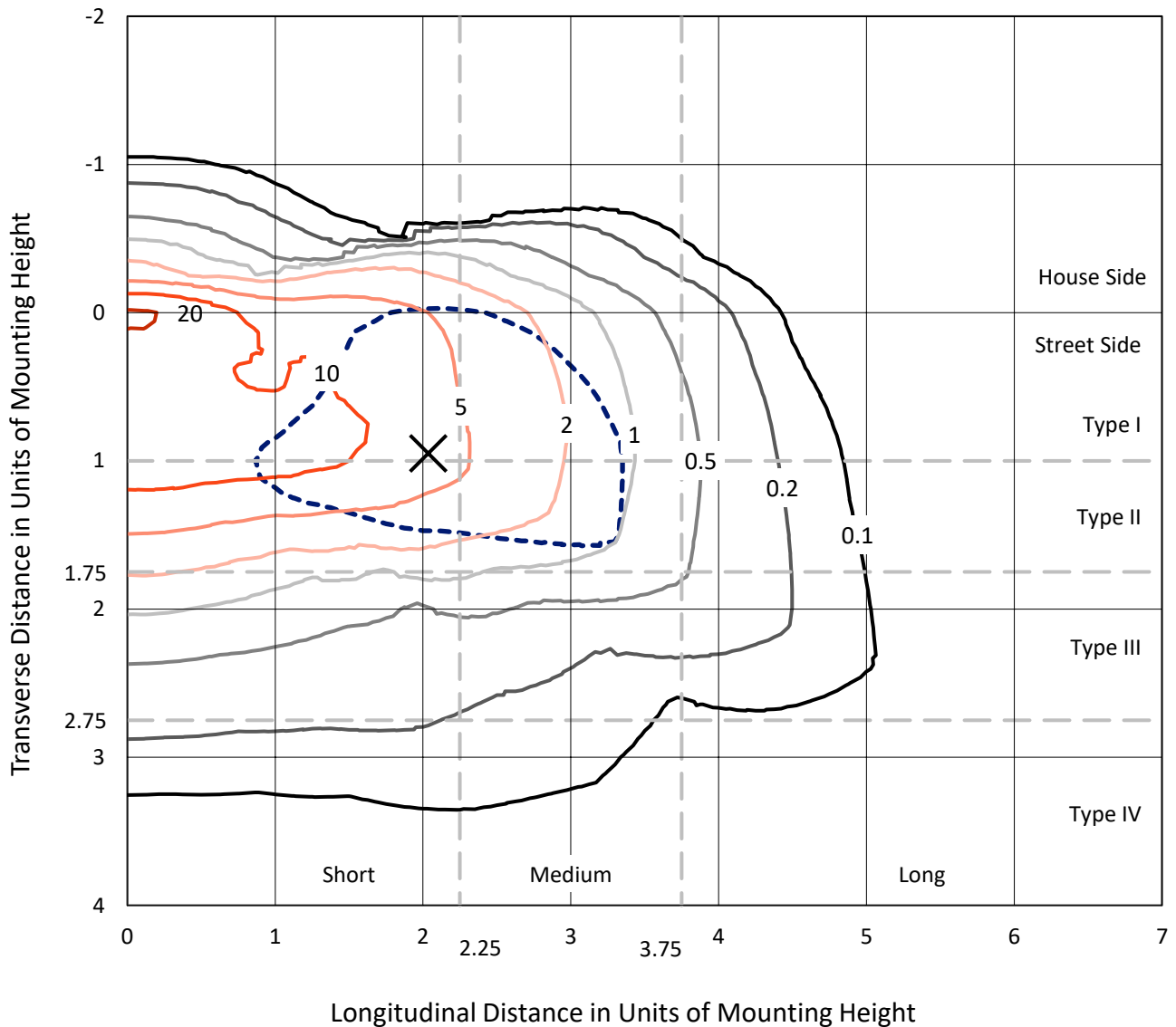
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

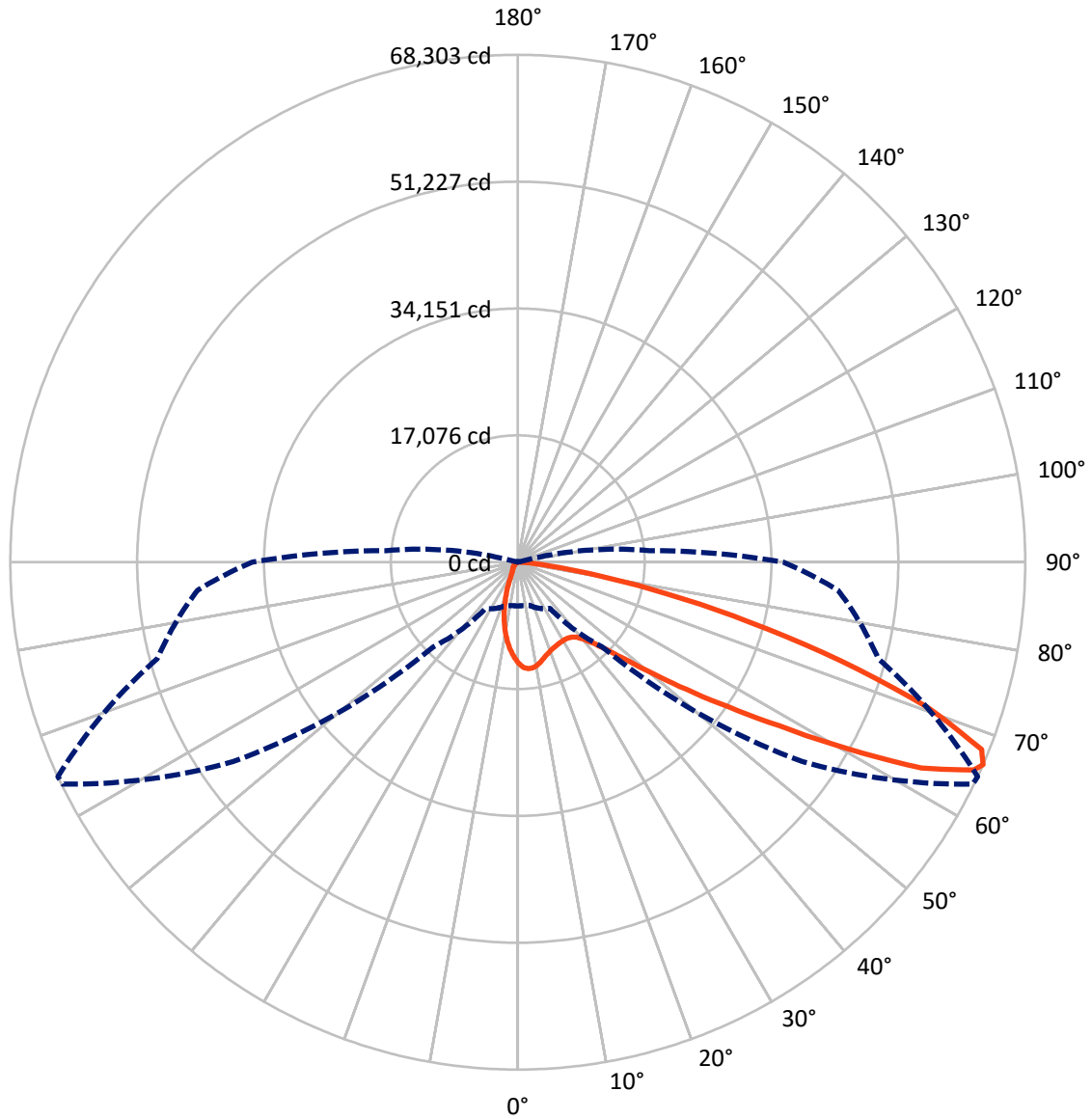
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5935.7	0.0	5935.7
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	51461.3	0.0	51461.3
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	57397.0	0.0	57397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1113.2	1.9
10°-20°	2425.4	4.2
20°-30°	3474.4	6.1
30°-40°	5074.7	8.8
40°-50°	8509.4	14.8
50°-60°	14200.8	24.7
60°-70°	15073.7	26.3
70°-80°	6826.8	11.9
80°-90°	698.5	1.2
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°	57397.0	100.0
0°-180°	57397.0	100.0

**Coefficient of Utilization**



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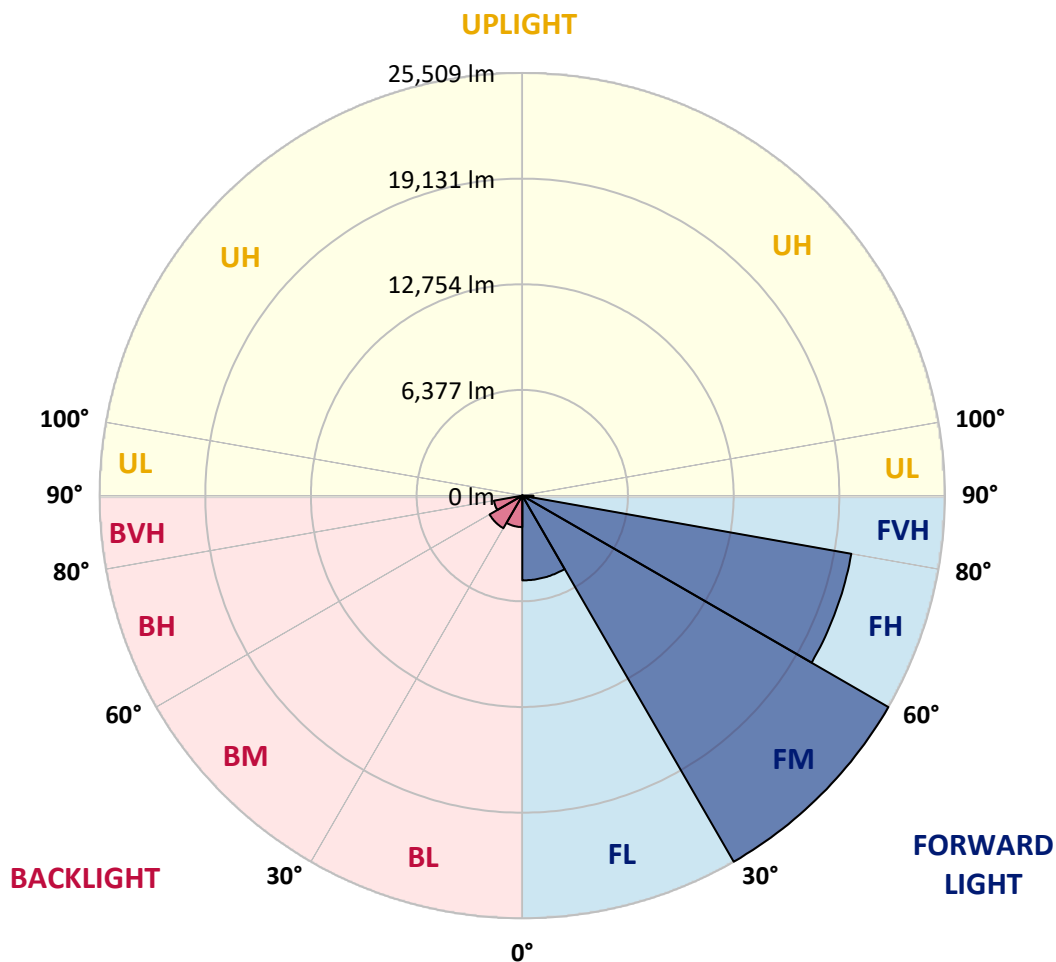
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5114.3	8.9			
FM (30°-60°)	25508.5	44.4			
FH (60°-80°)	20162.3	35.1			G5
FVH (80°-90°)	676.3	1.2			G4/750
BL (0°-30°)	1898.7	3.3	B3/2500		
BM (30°-60°)	2276.4	4.0	B2/2500		
BH (60°-80°)	1738.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	22.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9
2.5°	14343.6	14359.1	14378.5	14405.7	14425.0	14366.9	14285.5	14192.4	14173.1	13975.4	13735.0
5°	13576.1	13599.3	13769.9	13862.9	14072.3	14262.2	14382.4	14397.9	14390.2	14204.1	13820.3
7.5°	12482.8	12548.7	12715.4	12878.3	13269.8	13630.3	14056.8	14355.3	14374.6	14324.3	13847.4
10°	11595.1	11637.7	11723.0	12044.8	12370.4	12920.9	13517.9	14080.0	14126.5	14328.1	13824.2
12.5°	10901.2	10963.2	11067.9	11316.0	11707.5	12227.0	12905.4	13661.3	13758.3	14254.5	13758.3
15°	10416.6	10447.6	10552.3	10796.5	11176.4	11657.1	12343.3	13223.3	13308.6	14157.6	13746.6
17.5°	10187.9	10222.7	10296.4	10490.2	10804.2	11250.1	11920.7	12870.5	12979.1	14095.5	13789.3
20°	10249.9	10280.9	10284.8	10385.6	10598.8	10974.8	11610.6	12541.0	12680.5	14056.8	13859.1
22.5°	10602.7	10606.5	10560.0	10513.5	10587.2	10858.5	11420.6	12331.6	12475.1	14049.0	13940.5
25°	11129.9	11141.5	11064.0	10901.2	10753.8	10893.4	11378.0	12196.0	12323.9	14029.6	13990.9
27.5°	11858.7	11854.8	11831.6	11560.2	11141.5	11048.5	11412.9	12122.3	12230.9	13975.4	14010.2
30°	12878.3	12847.2	12796.8	12490.6	11850.9	11424.5	11560.2	12075.8	12176.6	13897.8	13959.8
32.5°	13882.3	13998.6	13990.9	13700.1	12901.5	12095.2	11866.4	12137.8	12211.5	13847.4	13886.2
35°	15053.1	15049.2	15347.7	15239.1	14304.9	12951.9	12389.8	12343.3	12401.4	13882.3	13851.3
37.5°	16138.5	16239.3	16704.5	16816.9	15964.1	14161.4	13130.2	12785.2	12804.6	14118.8	13936.6
40°	17491.5	17685.3	18379.2	18755.3	18003.2	15956.3	14223.5	13595.4	13599.3	14700.3	14258.3
42.5°	19236.0	19542.2	20189.6	20817.7	20414.5	18080.7	15863.3	14878.6	14870.9	15723.7	14994.9
45°	21356.5	21569.7	22306.3	23302.6	23046.7	21046.4	18251.3	16867.3	16766.5	17402.3	16301.3
47.5°	23186.3	23477.0	24225.2	25361.1	26524.1	24667.2	21104.5	19600.4	19534.5	20073.3	18542.1
50°	23984.9	24240.7	25027.7	26621.0	29439.3	29420.0	25353.3	23589.5	23477.0	23767.8	22007.8
52.5°	23108.8	23349.1	24143.8	26128.7	30811.7	35211.7	31509.5	28594.2	28458.5	28086.4	26148.1
55°	20108.2	20305.9	21480.6	23760.0	30284.5	39072.8	39991.6	34777.5	34250.3	32804.3	30834.9
57.5°	16010.6	15909.8	16638.6	19286.4	27190.9	40367.6	48698.6	42480.4	41538.4	36882.5	34800.8
60°	11095.0	11405.1	11699.8	13444.2	20445.5	38123.1	54114.3	52164.3	50923.8	40894.9	38599.9
62.5°	8156.5	8362.0	8555.8	9362.1	12855.0	30439.5	55071.8	62111.8	61010.8	45155.3	42224.6
65°	6450.8	6466.3	6543.8	7338.5	8470.5	19794.2	50470.2	67721.3	67438.3	49256.8	43693.8
66°	5877.0	5880.9	6001.1	6853.9	7602.1	16119.1	46783.5	68147.8	68302.8	50241.5	43263.5
67.5°	5136.6	5121.1	5295.5	6160.0	6923.7	11622.2	40185.4	66418.8	67337.5	50997.4	41716.7
70°	3981.3	3961.9	4175.2	5167.6	6377.1	7753.3	26710.2	57029.5	58510.4	49450.6	36909.7
72.5°	2651.6	2667.1	3031.5	4078.2	6086.4	6826.8	16068.7	43383.7	45477.1	40836.7	29036.2
75°	1546.8	1573.9	1988.7	3031.5	5283.9	6508.9	9094.6	30935.7	32273.2	28198.8	18088.5
77.5°	810.2	821.9	1112.6	2000.4	4051.1	6043.7	6059.2	19763.2	20391.2	13704.0	7160.2
80°	430.3	418.7	597.0	1205.6	2787.3	5307.1	4915.6	10463.1	10877.9	4070.5	1810.4
82.5°	162.8	178.3	317.9	790.8	1647.6	3810.8	4233.3	4624.9	4481.4	895.5	759.8
85°	31.0	38.8	135.7	469.1	829.6	1593.3	3120.7	2267.8	2101.1	337.3	438.1
87.5°	3.9	7.8	38.8	112.4	120.2	538.9	922.6	628.0	542.7	124.1	182.2
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°	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9	13610.9
2.5°	13618.7	13514.0	13165.1	12820.1	12467.3	12149.4	11932.4	11579.6	11490.4	11362.5	11288.8
5°	13591.6	13347.3	12676.7	11944.0	11261.7	10525.1	9963.0	9420.3	9129.5	8982.2	8927.9
7.5°	13514.0	13126.4	12079.7	10932.2	9839.0	8738.0	7780.5	7051.6	6582.6	6260.8	6043.7
10°	13359.0	12824.0	11385.7	9807.9	8156.5	6702.7	5489.3	4566.7	3853.4	3628.6	3636.3
12.5°	13200.0	12486.7	10610.4	8559.7	6512.8	4679.1	3392.1	2663.3	2322.1	2209.7	2186.4
15°	13052.7	12165.0	9850.6	7350.1	4849.7	3031.5	2186.4	1930.6	1837.5	1818.2	1814.3
17.5°	12975.2	11866.4	9040.4	5966.2	3384.3	2058.5	1752.2	1682.5	1655.3	1635.9	1628.2
20°	12909.3	11606.7	8265.0	4671.4	2314.4	1686.3	1570.0	1504.1	1457.6	1438.2	1426.6
22.5°	12862.8	11339.2	7462.6	3616.9	1771.6	1496.4	1391.7	1306.4	1240.5	1217.3	1201.8
25°	12793.0	11044.6	6652.3	2643.9	1492.5	1329.7	1209.5	1108.7	1023.4	980.8	973.0
27.5°	12692.2	10711.2	5764.6	1957.7	1333.6	1182.4	1035.1	911.0	825.7	779.2	783.1
30°	12529.4	10362.3	4876.8	1554.5	1205.6	1031.2	872.2	752.1	670.7	635.8	631.9
32.5°	12335.5	9939.8	4062.7	1333.6	1089.3	895.5	728.8	624.1	562.1	535.0	531.1
35°	12153.3	9513.3	3233.1	1197.9	969.2	771.5	612.5	523.3	476.8	453.6	457.4
37.5°	12052.5	9133.4	2519.8	1089.3	872.2	662.9	527.2	449.7	407.0	387.7	383.8
40°	12118.4	8823.3	2004.2	992.4	763.7	569.9	453.6	387.7	345.0	317.9	317.9
42.5°	12428.6	8687.6	1616.6	899.4	662.9	492.3	395.4	333.4	286.9	259.7	263.6
45°	13374.5	8831.0	1353.0	814.1	569.9	426.4	341.1	275.2	232.6	213.2	209.3
47.5°	14944.5	9369.9	1170.8	724.9	488.5	364.4	286.9	228.7	186.1	170.6	166.7
50°	17689.2	10482.5	1035.1	635.8	414.8	310.1	236.5	182.2	147.3	131.8	131.8
52.5°	21465.1	12909.3	938.2	535.0	348.9	263.6	193.8	147.3	116.3	104.7	100.8
55°	25411.5	15467.9	887.8	449.7	290.7	217.1	155.1	116.3	89.2	77.5	73.7
57.5°	29206.7	17476.0	829.6	364.4	232.6	166.7	120.2	89.2	62.0	54.3	50.4
60°	32846.9	19100.3	705.6	290.7	182.2	120.2	89.2	62.0	42.6	34.9	34.9
62.5°	36103.3	20046.2	554.4	232.6	139.6	85.3	58.1	46.5	31.0	23.3	23.3
65°	36483.2	18817.3	418.7	178.3	100.8	54.3	34.9	34.9	23.3	15.5	15.5
66°	35719.5	17774.5	368.3	162.8	89.2	46.5	31.0	27.1	19.4	11.6	11.6
67.5°	34013.8	15995.1	317.9	139.6	73.7	34.9	23.3	23.3	15.5	7.8	7.8
70°	29388.9	13064.3	252.0	104.7	54.3	27.1	15.5	15.5	11.6	7.8	7.8
72.5°	22399.3	9753.7	205.5	77.5	38.8	19.4	11.6	11.6	11.6	7.8	7.8
75°	13510.2	5252.9	158.9	58.1	34.9	15.5	7.8	11.6	15.5	11.6	7.8
77.5°	4977.6	1787.1	124.1	46.5	27.1	15.5	7.8	7.8	15.5	11.6	11.6
80°	1221.1	465.2	89.2	38.8	27.1	15.5	7.8	7.8	15.5	15.5	15.5
82.5°	566.0	197.7	62.0	34.9	27.1	15.5	7.8	7.8	11.6	15.5	15.5
85°	325.6	93.0	50.4	38.8	27.1	15.5	7.8	7.8	11.6	15.5	15.5
87.5°	131.8	46.5	46.5	38.8	31.0	19.4	7.8	7.8	7.8	11.6	11.6
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)