

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: P458385

Luminaire Tested: **GALN-SA9D-740-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458385  
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-SA9D-740-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 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: 52427 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G5

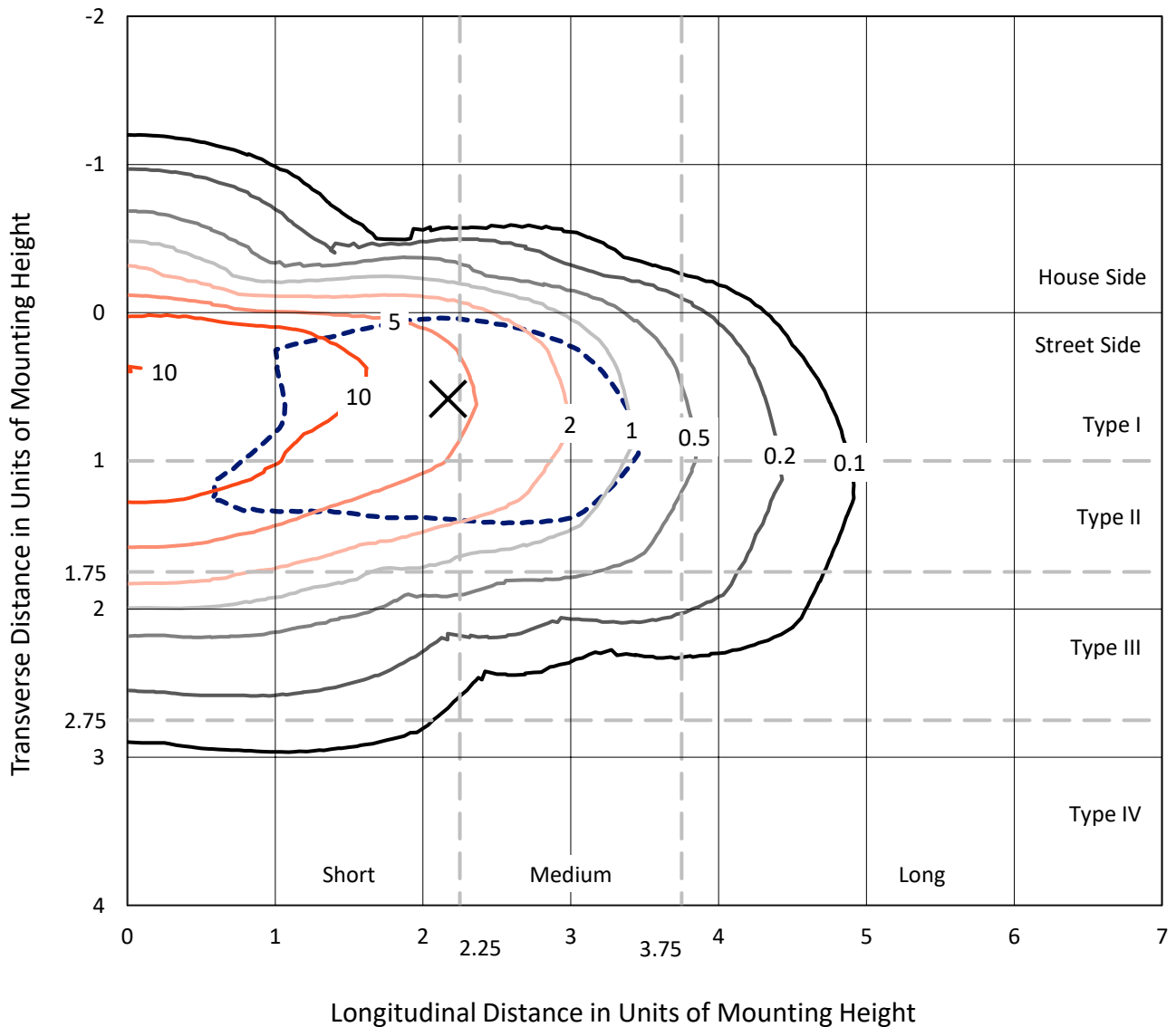
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

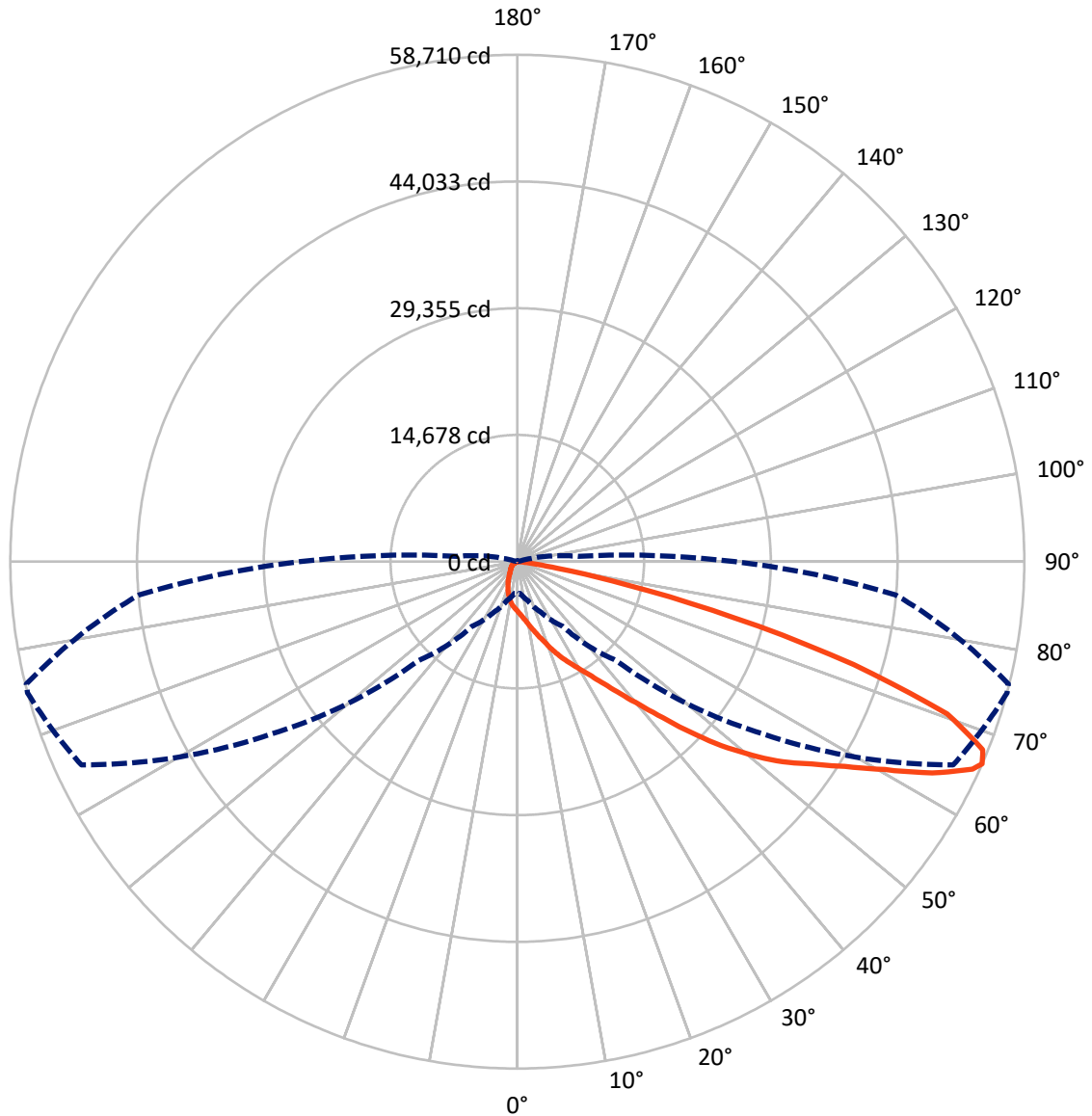
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 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
<b>House Side</b>	Lumens	3236.6	0.0	3236.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	49190.4	0.0	49190.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	52427.0	0.0	52427.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	553.0	1.1
10°-20°	1627.5	3.1
20°-30°	2810.3	5.4
30°-40°	5069.2	9.7
40°-50°	9157.7	17.5
50°-60°	14277.0	27.2
60°-70°	13562.5	25.9
70°-80°	5082.9	9.7
80°-90°	286.8	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°	52427.0	100.0
0°-180°	52427.0	100.0

**Coefficient of Utilization**



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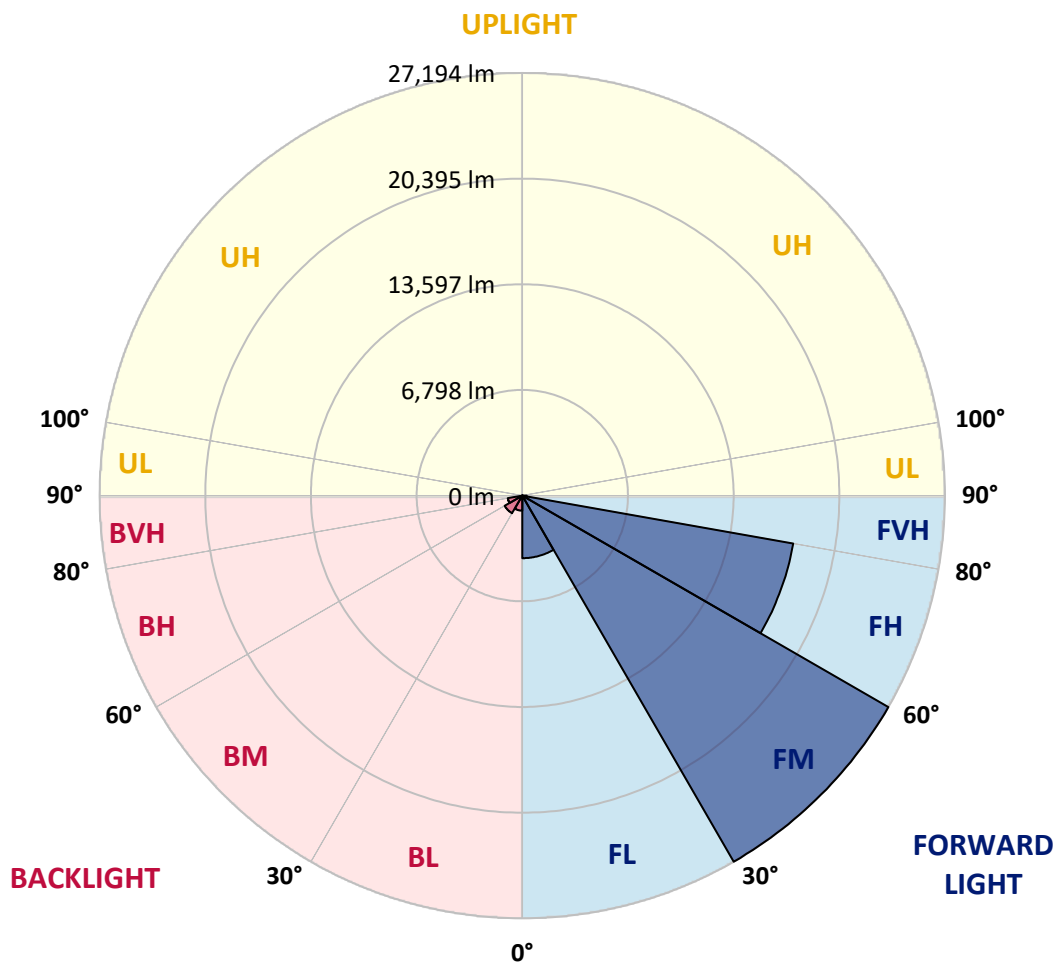
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4024.2	7.7			
FM	(30°-60°)	27193.9	51.9			
FH	(60°-80°)	17700.3	33.8			G5
FVH	(80°-90°)	272.0	0.5			G3/500
BL	(0°-30°)	966.6	1.8	B2/1000		
BM	(30°-60°)	1310.1	2.5	B2/2500		
BH	(60°-80°)	945.1	1.8	B2/1000		G2/1000
BVH	(80°-90°)	14.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4
2.5°	6849.9	6764.6	6791.7	6752.9	6663.8	6532.0	6415.7	6249.0	6082.3	6055.2	5869.1
5°	7753.1	7729.8	7698.8	7586.4	7524.4	7322.8	7082.4	6795.6	6450.6	6388.5	6051.3
7.5°	8369.5	8357.8	8373.3	8315.2	8260.9	8078.7	7822.9	7431.3	6896.4	6861.5	6299.4
10°	8571.0	8602.1	8660.2	8753.2	8838.5	8780.4	8586.5	8098.1	7474.0	7373.2	6582.4
12.5°	8454.7	8489.6	8629.2	8877.3	9152.5	9311.5	9233.9	8877.3	8086.5	8005.1	6900.3
15°	8156.3	8198.9	8396.6	8780.4	9272.7	9722.4	9916.2	9660.4	8799.8	8668.0	7284.0
17.5°	7714.3	7776.4	8059.3	8567.2	9241.7	10017.0	10563.6	10478.3	9559.6	9435.5	7702.7
20°	7380.9	7427.5	7667.8	8249.3	9109.9	10179.8	11180.0	11420.3	10497.7	10284.5	8195.0
22.5°	7601.9	7617.4	7698.8	8047.7	8873.4	10222.5	11722.7	12401.1	11494.0	11304.0	8706.7
25°	8683.5	8528.4	8447.0	8369.5	8823.0	10183.7	12215.0	13424.5	12486.4	12284.8	9214.5
27.5°	10389.1	10319.4	9908.5	9358.0	9253.3	10234.1	12540.6	14393.6	13420.6	13203.5	9710.7
30°	12246.0	12125.8	11873.9	11067.5	10257.3	10590.7	12777.1	15335.6	14525.4	14238.6	10164.3
32.5°	13951.7	14029.2	13653.2	12823.6	11885.5	11350.5	13083.3	16362.9	15793.0	15436.4	10691.5
35°	15940.4	16095.4	15517.8	14723.1	13626.1	12722.8	13680.3	17522.0	17401.8	16952.1	11505.6
37.5°	17960.0	18053.1	17700.3	16583.9	15595.3	14467.3	14804.5	18952.4	19382.7	18998.9	12478.6
40°	19658.0	19785.9	19526.2	18533.8	17479.3	16486.9	16436.6	20510.8	21739.7	21344.3	13928.4
42.5°	20956.6	21053.5	21061.3	20359.6	19409.9	18960.2	18518.3	22499.5	24693.6	24236.2	15610.8
45°	22596.4	22735.9	22654.5	22177.7	21468.3	21386.9	21158.2	24902.9	28229.0	27651.4	17793.3
47.5°	25131.6	25224.7	25023.1	24461.0	23740.0	23867.9	23732.2	27597.1	31834.2	31338.0	20053.4
50°	26891.6	27046.7	27333.5	27558.4	27035.0	26562.1	26158.9	30113.0	35257.2	34811.4	22363.8
52.5°	26872.2	27128.1	28035.2	29167.1	30310.7	30167.3	29008.2	32892.5	38525.1	37974.6	24534.7
55°	25061.9	25558.1	26891.6	28899.6	32066.8	33644.5	33117.3	36110.0	41347.2	40975.1	27050.5
57.5°	21324.9	21627.2	23480.2	26286.9	31086.0	35280.4	37877.7	40471.1	44731.5	44557.0	30958.1
60°	14343.2	14478.9	16863.0	20332.5	26465.2	33648.4	41366.6	45747.1	48898.7	48813.5	35520.8
62.5°	8218.3	8276.4	10005.4	12932.2	18832.3	28515.9	41661.2	52255.8	53895.6	53942.1	40800.6
65°	4423.1	4454.2	5849.7	7590.3	11459.1	20324.7	37462.9	55822.3	57935.0	58024.1	44072.4
66°	3818.4	3671.1	4655.7	6470.0	9117.6	16176.8	34807.5	55694.3	58710.3	58613.4	43956.1
67.5°	2903.5	3035.3	3717.6	4973.6	6756.8	11501.7	28736.8	53217.2	58121.0	57818.7	42169.1
70°	2077.8	2132.1	2647.7	3547.0	4601.5	6311.0	18363.2	44200.4	52825.7	52418.6	36738.0
72.5°	1341.3	1399.4	1876.2	2566.3	3326.1	3446.2	10280.6	31935.0	40727.0	40668.8	27666.9
75°	957.5	1011.8	1240.5	1837.5	2500.4	2132.1	4950.3	21522.6	25891.4	25717.0	17114.9
77.5°	693.9	721.0	829.6	1201.7	1787.1	1527.4	2294.9	11494.0	12889.5	13498.1	7563.1
80°	399.3	422.5	577.6	732.7	1209.5	1042.8	1097.1	4613.1	4756.5	4527.8	2364.7
82.5°	197.7	224.8	345.0	500.1	755.9	701.7	504.0	1387.8	1465.3	1426.6	597.0
85°	46.5	58.1	193.8	329.5	368.3	314.0	244.2	407.0	504.0	492.3	228.7
87.5°	3.9	7.8	69.8	58.1	62.0	104.7	85.3	104.7	162.8	151.2	81.4
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°	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4	5733.4
2.5°	5783.8	5710.2	5496.9	5287.6	5113.2	4931.0	4764.3	4667.4	4628.6	4586.0	4605.3
5°	5865.2	5686.9	5256.6	4884.4	4520.1	4209.9	3961.8	3802.9	3725.4	3713.7	3694.3
7.5°	5973.8	5667.5	5000.7	4419.3	3942.4	3597.4	3314.4	3085.7	3016.0	2953.9	2903.5
10°	6105.6	5632.6	4682.9	3930.8	3423.0	2988.8	2616.7	2345.3	2205.8	2167.0	2194.1
12.5°	6245.1	5566.7	4349.5	3481.1	2895.8	2341.4	1996.4	1860.7	1822.0	1806.5	1810.3
15°	6384.7	5485.3	4000.6	3047.0	2306.5	1868.5	1709.6	1674.7	1659.2	1651.4	1643.7
17.5°	6512.6	5353.5	3609.1	2624.4	1868.5	1597.1	1539.0	1508.0	1477.0	1465.3	1446.0
20°	6663.8	5202.3	3256.3	2151.5	1581.6	1446.0	1376.2	1318.0	1271.5	1240.5	1236.6
22.5°	6807.2	5008.5	2888.0	1783.2	1442.1	1298.6	1186.2	1124.2	1069.9	1031.2	1042.8
25°	6884.7	4772.0	2558.5	1554.5	1314.1	1151.3	1027.3	949.8	891.6	872.2	868.3
27.5°	6884.7	4481.3	2236.8	1422.7	1197.9	1019.5	891.6	818.0	779.2	752.0	755.9
30°	6830.5	4159.5	1938.3	1321.9	1097.1	903.2	783.1	717.2	686.1	666.8	662.9
32.5°	6787.8	3853.3	1682.4	1225.0	992.4	802.4	697.8	647.4	616.4	597.0	597.0
35°	6853.7	3589.7	1484.7	1128.1	895.5	724.9	631.9	585.4	554.3	538.8	535.0
37.5°	7028.2	3349.3	1333.5	1023.4	806.3	659.0	585.4	531.1	500.1	480.7	472.9
40°	7458.5	3213.7	1221.1	926.5	721.0	604.7	531.1	480.7	441.9	422.5	418.7
42.5°	8148.5	3217.5	1112.6	837.3	655.1	558.2	484.6	426.4	383.8	364.4	360.5
45°	9187.4	3364.8	1027.3	752.0	597.0	507.8	434.2	372.1	333.4	314.0	314.0
47.5°	10431.8	3651.7	953.6	678.4	542.7	461.3	383.8	321.8	283.0	267.5	267.5
50°	11780.8	4023.9	880.0	600.9	496.2	410.9	329.5	279.1	248.1	236.5	236.5
52.5°	13157.0	4473.5	806.3	538.8	445.8	356.6	283.0	248.1	221.0	213.2	209.3
55°	14963.5	5047.3	728.8	472.9	391.5	306.2	252.0	217.1	186.1	174.4	170.6
57.5°	17742.9	5911.7	643.5	414.8	321.8	255.9	217.1	182.2	147.3	127.9	124.0
60°	21096.2	6966.2	554.3	364.4	259.7	209.3	174.4	139.6	108.5	85.3	81.4
62.5°	24236.2	7636.8	469.1	306.2	205.5	158.9	124.0	104.7	77.5	54.3	50.4
65°	25624.0	7412.0	387.7	248.1	162.8	112.4	81.4	73.7	46.5	23.3	19.4
66°	25162.7	7078.6	356.6	224.8	147.3	96.9	69.8	62.0	34.9	11.6	11.6
67.5°	23802.0	6291.6	310.1	193.8	127.9	77.5	54.3	46.5	19.4	3.9	0.0
70°	20394.5	5089.9	244.2	143.4	93.0	54.3	31.0	23.3	11.6	0.0	0.0
72.5°	15665.1	3791.3	193.8	108.5	65.9	31.0	15.5	7.8	11.6	0.0	0.0
75°	9598.3	2167.0	151.2	81.4	42.6	19.4	11.6	0.0	11.6	3.9	0.0
77.5°	4260.3	973.0	100.8	54.3	31.0	15.5	7.8	0.0	7.8	3.9	0.0
80°	1077.7	317.9	58.1	38.8	23.3	11.6	3.9	0.0	7.8	7.8	3.9
82.5°	294.6	116.3	42.6	31.0	19.4	11.6	3.9	0.0	7.8	7.8	7.8
85°	116.3	54.3	38.8	31.0	23.3	11.6	3.9	0.0	7.8	7.8	7.8
87.5°	54.3	38.8	38.8	34.9	27.1	11.6	3.9	0.0	7.8	3.9	7.8
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)