

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: P453267

Luminaire Tested: **GALN-SA4B-740-U-AFL-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453267  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4B-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18443 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

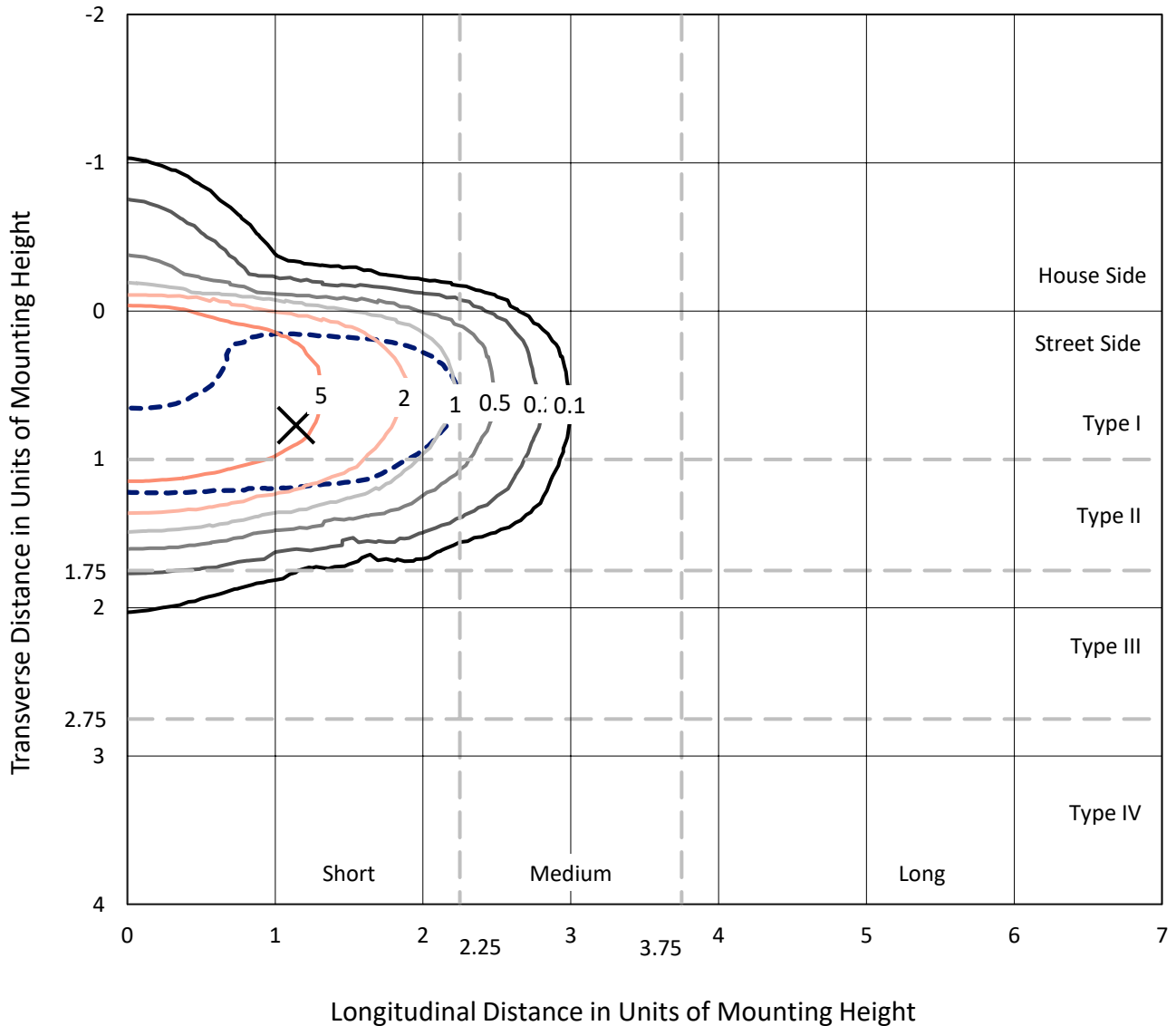
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

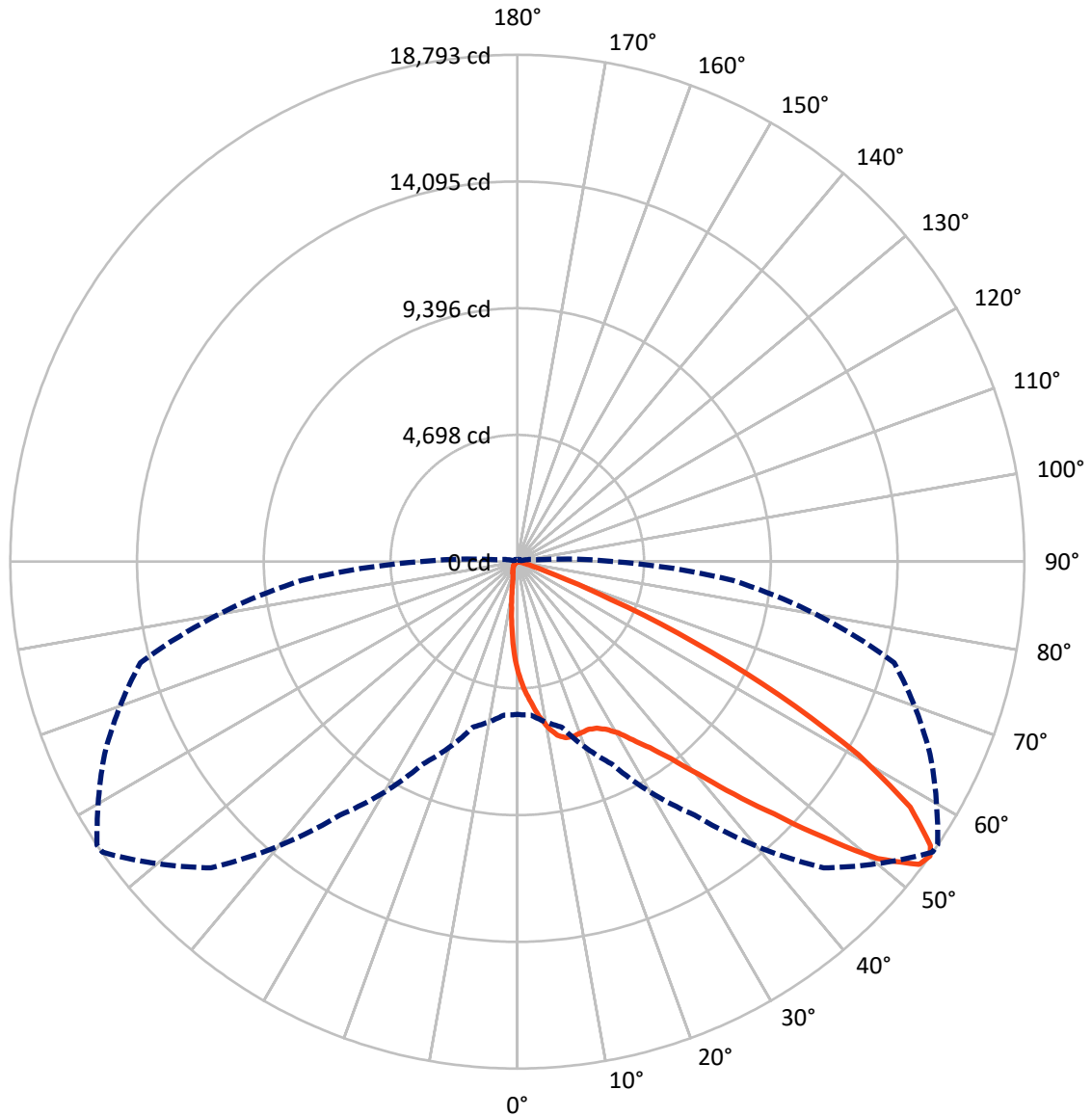
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	872.1	0.0	872.1
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	17570.9	0.0	17570.9
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	18443.0	0.0	18443.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.1	2.0
10°-20°	978.8	5.3
20°-30°	1695.2	9.2
30°-40°	2926.2	15.9
40°-50°	4980.6	27.0
50°-60°	4928.9	26.7
60°-70°	2249.6	12.2
70°-80°	288.9	1.6
80°-90°	32.6	0.2
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°	18443.0	100.0
0°-180°	18443.0	100.0

**Coefficient of Utilization**



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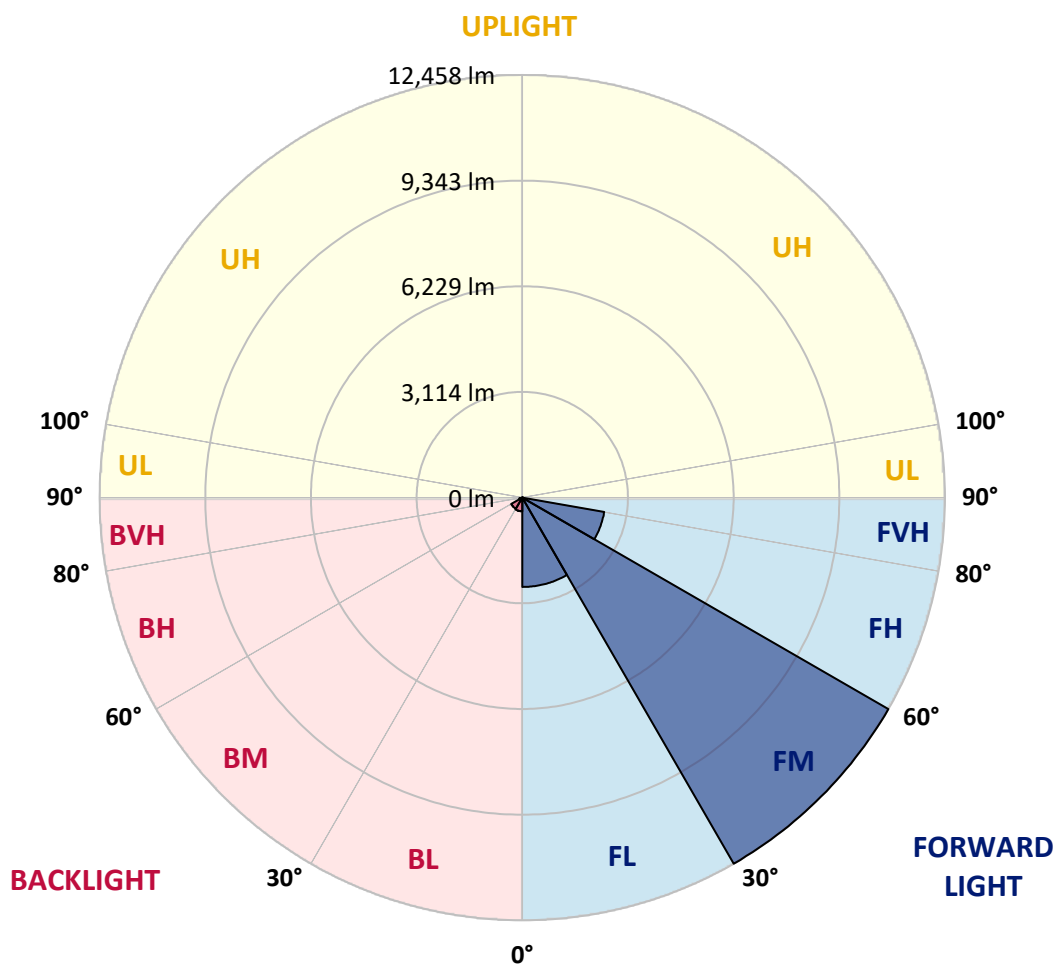
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.8	14.3			
FM (30°-60°)	12457.8	67.5			
FH (60°-80°)	2451.2	13.3			G2/5000
FVH (80°-90°)	29.1	0.2			G1/100
BL (0°-30°)	403.3	2.2	B1/500		
BM (30°-60°)	378.0	2.0	B1/1000		
BH (60°-80°)	87.3	0.5	B0/110		G0/110
BVH (80°-90°)	3.5	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5
2.5°	5207.4	5171.3	5121.6	5083.0	4992.2	4861.5	4723.4	4723.4	4590.3	4404.8	4215.7
5°	6006.3	5982.6	5934.1	5834.6	5732.5	5549.6	5272.1	5223.6	4985.9	4650.0	4296.6
7.5°	6331.0	6342.2	6344.7	6318.6	6270.1	6089.6	5814.6	5781.1	5401.5	4951.1	4402.4
10°	6020.0	6074.7	6128.2	6236.5	6389.5	6433.1	6277.5	6242.7	5869.4	5256.0	4516.8
12.5°	5557.1	5586.9	5616.8	5787.3	6094.6	6446.8	6609.8	6608.5	6292.5	5559.6	4662.4
15°	5341.8	5367.9	5370.4	5446.3	5712.6	6225.3	6751.6	6770.3	6705.6	5934.1	4819.2
17.5°	5386.6	5407.8	5390.3	5409.0	5548.4	5981.4	6735.4	6797.7	7040.3	6293.7	4961.1
20°	5679.0	5720.1	5652.9	5600.6	5642.9	5916.7	6680.7	6767.8	7276.7	6644.6	5090.5
22.5°	6204.1	6226.5	6141.9	5998.8	5924.1	6052.3	6665.8	6751.6	7478.3	6932.0	5165.1
25°	6787.7	6780.2	6686.9	6526.4	6369.6	6326.1	6764.1	6841.2	7645.0	7190.9	5187.5
27.5°	7371.3	7393.7	7236.9	7037.8	6849.9	6736.7	6984.3	7041.5	7832.9	7485.8	5214.9
30°	8049.4	8013.3	7859.0	7631.3	7416.1	7258.0	7338.9	7355.1	8091.7	7876.5	5287.1
32.5°	8931.6	8832.1	8659.1	8261.0	8106.7	7839.1	7859.0	7879.0	8406.5	8263.4	5374.2
35°	10128.7	10123.7	9785.2	9248.9	8873.2	8540.9	8453.8	8470.0	8883.1	8838.3	5567.0
37.5°	11569.6	11589.5	11203.7	10663.7	9971.9	9444.3	9265.1	9267.6	9607.3	9632.2	5860.7
40°	12743.0	12795.2	12565.0	12200.4	11517.3	10692.3	10391.2	10363.8	10625.1	10594.0	6280.0
42.5°	13248.1	13296.7	13382.5	13509.4	13133.7	12453.0	11742.5	11779.9	11859.5	11641.7	6750.4
45°	13000.5	13077.7	13414.9	14198.8	14552.2	14323.2	13475.8	13345.2	13008.0	12780.3	7223.2
47.5°	11969.0	12156.9	12720.6	14025.8	15262.7	16036.6	15431.9	15258.9	14157.7	13611.5	7524.3
50°	10273.0	10284.2	11069.4	12738.0	14894.4	17117.9	17429.0	17299.6	15229.1	14078.1	7676.1
52.5°	7447.2	7692.3	8411.5	10343.9	13299.2	16953.7	18701.9	18648.4	16334.0	14317.0	7895.1
54°	5661.6	5708.9	6348.5	8265.9	11466.3	16051.6	18780.3	18792.8	16882.8	14461.3	8024.5
55°	4641.3	4528.0	5200.0	7041.5	10215.8	15254.0	18524.0	18583.7	17129.1	14536.0	8120.4
57.5°	2199.9	2201.2	2715.1	3714.3	6398.2	11844.6	16957.4	17169.0	17156.5	14664.2	8415.3
60°	1113.7	1121.1	1234.4	1714.7	3160.5	7874.0	14020.9	14524.8	15836.3	14682.8	8512.3
62.5°	778.9	770.2	751.6	825.0	1330.2	4001.7	10438.5	10876.5	13454.7	13972.3	8203.7
65°	666.9	648.3	596.0	584.8	671.9	1594.0	6501.5	7215.7	10273.0	12098.4	7325.2
67.5°	569.9	562.4	515.1	486.5	475.3	694.3	3354.7	3730.4	7021.6	8696.5	5548.4
70°	484.0	480.3	451.7	415.6	384.5	415.6	1244.3	1541.7	3913.3	4682.3	2618.0
72.5°	393.2	396.9	401.9	355.9	323.5	294.9	531.3	618.4	1637.5	1673.6	915.8
75°	344.7	340.9	340.9	309.8	270.0	219.0	292.4	314.8	501.5	465.4	212.8
77.5°	242.6	233.9	273.7	255.1	225.2	155.5	166.7	176.7	207.8	177.9	99.5
80°	168.0	168.0	175.4	229.0	202.8	113.2	102.0	109.5	123.2	105.8	57.2
82.5°	94.6	97.1	114.5	121.9	118.2	75.9	67.2	68.4	82.1	72.2	36.1
85°	11.2	18.7	65.9	64.7	48.5	33.6	37.3	38.6	51.0	44.8	21.2
87.5°	1.2	2.5	13.7	17.4	12.4	13.7	13.7	13.7	17.4	19.9	14.9
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°	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5
2.5°	4113.7	4019.1	3793.9	3532.6	3365.9	3094.6	2865.6	2700.1	2659.1	2579.4	2603.1
5°	4108.7	3912.1	3453.0	2967.7	2450.0	2064.3	1776.9	1550.4	1450.9	1384.9	1338.9
7.5°	4111.2	3803.8	3067.2	2294.5	1676.1	1297.8	1031.5	893.4	801.3	762.8	767.7
10°	4118.7	3681.9	2619.3	1699.7	1131.1	838.7	675.7	609.7	578.6	573.6	572.4
12.5°	4136.1	3548.8	2191.2	1261.7	791.4	609.7	547.5	525.1	515.1	515.1	511.4
15°	4154.7	3401.9	1835.4	938.2	609.7	523.9	495.2	484.0	477.8	477.8	476.6
17.5°	4154.7	3232.7	1503.1	727.9	525.1	481.5	459.1	444.2	439.2	439.2	438.0
20°	4128.6	3036.1	1208.2	586.1	476.6	441.7	419.3	403.2	396.9	394.4	393.2
22.5°	4037.8	2773.6	961.8	503.9	436.8	406.9	378.3	359.6	354.6	352.1	353.4
25°	3876.0	2477.4	761.5	443.0	400.7	364.6	339.7	326.0	321.0	321.0	322.3
27.5°	3709.3	2167.6	603.5	396.9	357.1	324.8	304.9	296.1	294.9	298.6	299.9
30°	3555.0	1856.5	489.0	359.6	318.5	291.2	277.5	275.0	275.0	276.2	277.5
32.5°	3383.3	1584.0	409.4	327.3	287.4	263.8	256.3	256.3	258.8	258.8	261.3
35°	3275.0	1350.1	359.6	296.1	263.8	243.9	238.9	240.2	243.9	248.9	251.4
37.5°	3216.5	1163.4	327.3	271.3	241.4	227.7	222.7	225.2	233.9	242.6	243.9
40°	3221.5	1022.8	301.1	250.1	224.0	209.0	205.3	212.8	221.5	230.2	231.4
42.5°	3276.3	918.3	276.2	225.2	209.0	187.9	186.6	194.1	197.8	206.6	207.8
45°	3341.0	842.4	250.1	199.1	181.7	163.0	164.2	170.5	175.4	189.1	191.6
47.5°	3360.9	790.1	220.2	169.2	149.3	143.1	144.3	148.1	158.0	170.5	171.7
50°	3383.3	757.8	191.6	143.1	126.9	125.7	126.9	129.4	135.6	140.6	139.4
52.5°	3479.1	756.5	168.0	124.4	108.3	110.7	112.0	110.7	105.8	98.3	95.8
54°	3568.7	760.3	156.8	115.7	99.5	103.3	102.0	95.8	83.4	75.9	72.2
55°	3640.8	764.0	150.6	109.5	94.6	95.8	97.1	84.6	68.4	61.0	58.5
57.5°	3782.7	755.3	135.6	95.8	83.4	78.4	77.1	56.0	37.3	32.4	29.9
60°	3711.8	681.9	123.2	82.1	70.9	63.5	52.3	31.1	18.7	13.7	13.7
62.5°	3433.0	578.6	109.5	67.2	58.5	48.5	27.4	17.4	8.7	5.0	3.7
65°	3071.0	486.5	98.3	53.5	46.0	31.1	14.9	11.2	3.7	0.0	0.0
67.5°	2283.3	360.8	83.4	42.3	34.8	19.9	10.0	6.2	1.2	0.0	0.0
70°	1057.7	220.2	70.9	32.4	24.9	14.9	7.5	3.7	0.0	0.0	0.0
72.5°	303.6	138.1	58.5	23.6	17.4	12.4	6.2	2.5	1.2	0.0	0.0
75°	105.8	110.7	43.6	17.4	13.7	8.7	5.0	2.5	1.2	0.0	0.0
77.5°	63.5	89.6	27.4	14.9	11.2	7.5	5.0	2.5	1.2	1.2	0.0
80°	36.1	59.7	17.4	12.4	10.0	6.2	3.7	2.5	1.2	1.2	0.0
82.5°	19.9	28.6	13.7	11.2	8.7	6.2	3.7	2.5	1.2	1.2	1.2
85°	16.2	14.9	11.2	10.0	7.5	5.0	3.7	1.2	0.0	0.0	0.0
87.5°	12.4	10.0	10.0	10.0	7.5	5.0	3.7	1.2	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)