

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: P459531

Luminaire Tested: **GALN-SA9D-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459531
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-SA9D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 53525 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

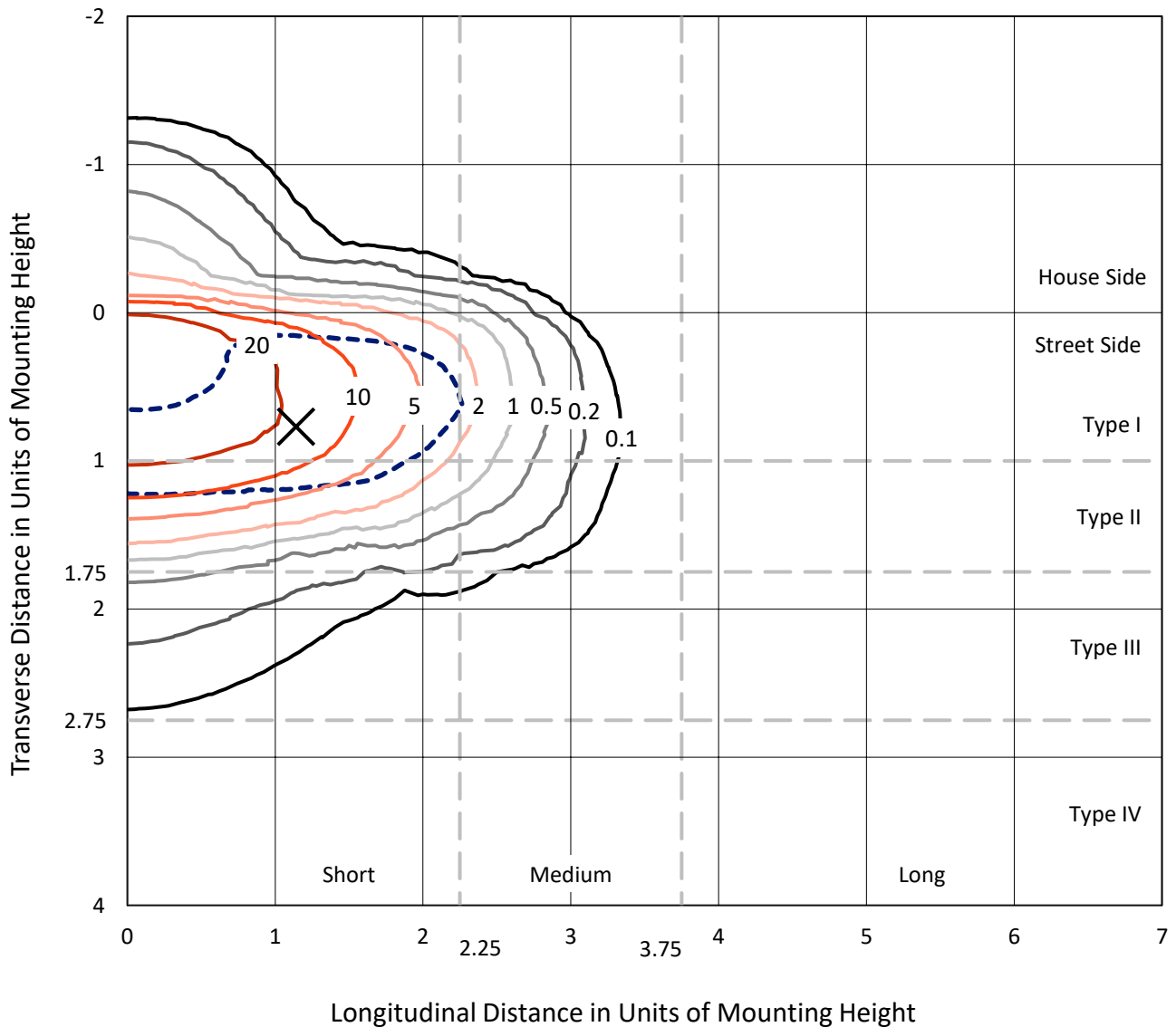
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

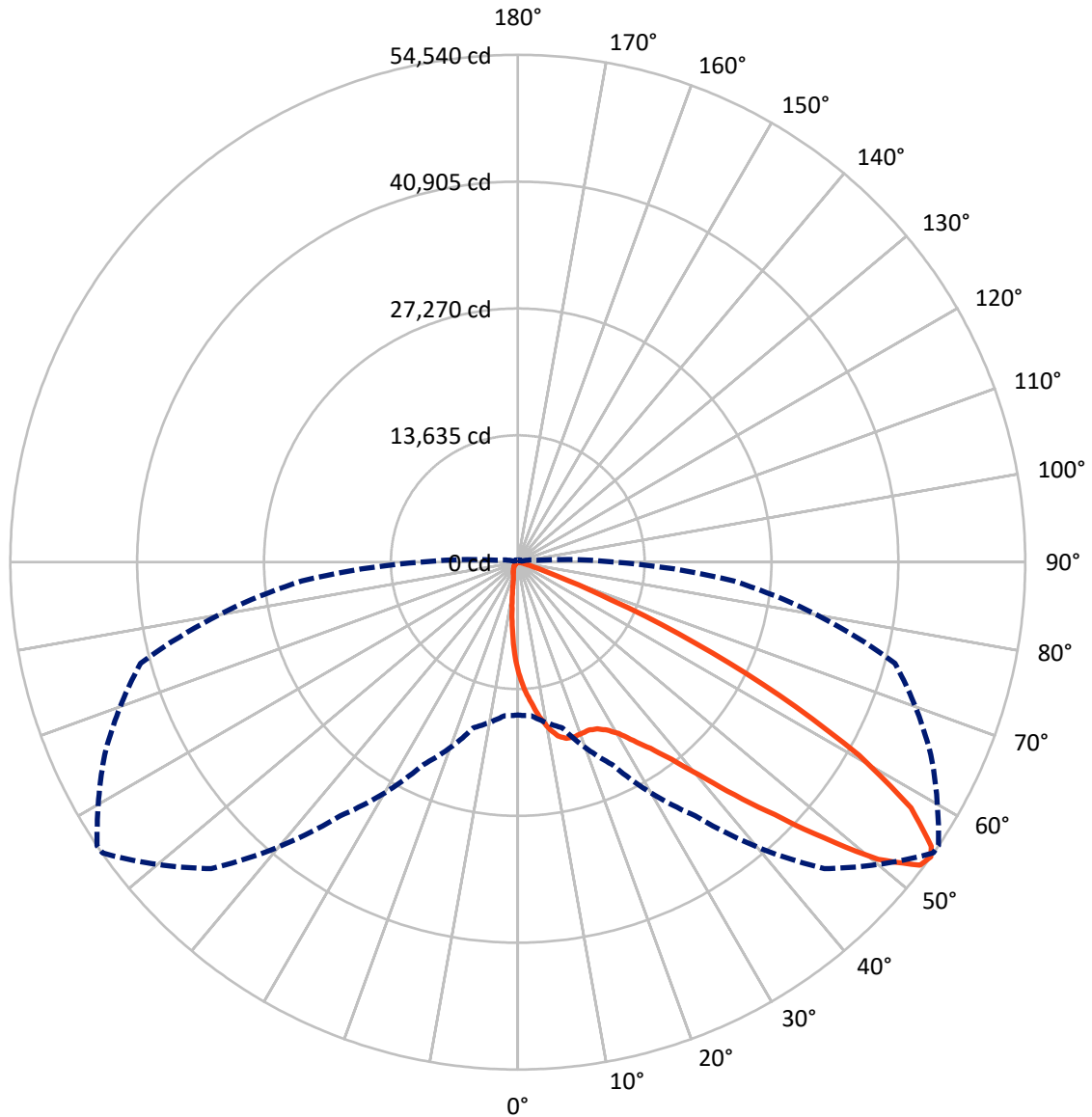
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.5 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
House Side	Lumens	2531.1	0.0	2531.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	50993.9	0.0	50993.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	53525.0	0.0	53525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1050.8	2.0
10°-20°	2840.7	5.3
20°-30°	4919.9	9.2
30°-40°	8492.5	15.9
40°-50°	14454.6	27.0
50°-60°	14304.6	26.7
60°-70°	6528.9	12.2
70°-80°	838.5	1.6
80°-90°	94.5	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°	53525.0	100.0
0°-180°	53525.0	100.0

Coefficient of Utilization



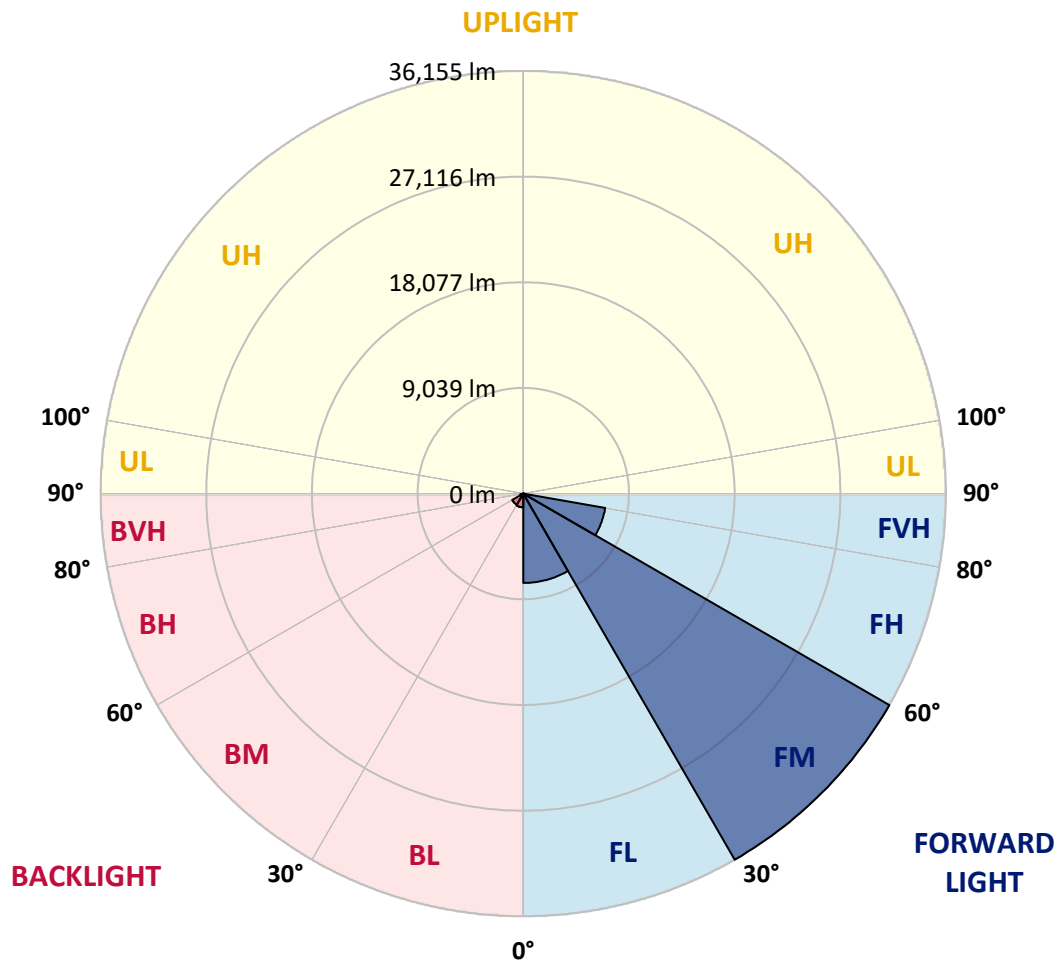
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7640.9	14.3			
FM (30°-60°)	36154.7	67.5			
FH (60°-80°)	7113.9	13.3			G3/7500
FVH (80°-90°)	84.4	0.2			G1/100
BL (0°-30°)	1170.6	2.2	B3/2500		
BM (30°-60°)	1096.9	2.0	B2/2500		
BH (60°-80°)	253.4	0.5	B1/500		G1/500
BVH (80°-90°)	10.1	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7
2.5°	15112.9	15008.2	14863.7	14751.8	14488.2	14109.0	13708.2	13708.2	13321.8	12783.7	12234.8
5°	17431.3	17362.7	17221.9	16933.0	16636.8	16106.0	15300.7	15159.9	14470.1	13495.1	12469.5
7.5°	18373.8	18406.3	18413.6	18337.7	18196.9	17673.3	16875.2	16777.7	15676.3	14369.0	12776.5
10°	17471.0	17629.9	17785.2	18099.4	18543.6	18670.0	18218.6	18117.4	17034.1	15253.8	13108.7
12.5°	16127.7	16214.3	16301.0	16795.7	17687.7	18709.7	19182.8	19179.1	18261.9	16134.9	13531.2
15°	15502.9	15578.8	15586.0	15806.3	16579.1	18066.9	19594.4	19648.6	19460.8	17221.9	13986.2
17.5°	15632.9	15694.3	15643.8	15697.9	16102.4	17359.1	19547.5	19728.0	20432.2	18265.5	14397.9
20°	16481.6	16600.7	16405.7	16254.1	16376.8	17171.3	19388.6	19641.4	21118.4	19283.9	14773.5
22.5°	18005.5	18070.5	17824.9	17409.6	17193.0	17564.9	19345.3	19594.4	21703.4	20118.1	14990.1
25°	19699.2	19677.5	19406.6	18940.8	18485.8	18359.4	19630.5	19854.4	22187.3	20869.2	15055.1
27.5°	21392.8	21457.8	21002.8	20425.0	19879.7	19551.1	20269.7	20435.8	22732.6	21725.0	15134.6
30°	23360.9	23256.2	22808.4	22147.6	21522.8	21064.2	21298.9	21345.9	23483.7	22859.0	15344.0
32.5°	25921.3	25632.4	25130.4	23974.8	23527.0	22750.6	22808.4	22866.2	24397.3	23982.0	15596.8
35°	29395.3	29380.8	28398.6	26842.1	25751.5	24787.3	24534.6	24581.5	25780.4	25650.4	16156.6
37.5°	33577.0	33634.8	32515.3	30948.1	28940.2	27409.1	26889.1	26896.3	27882.2	27954.4	17008.8
40°	36982.4	37134.1	36466.0	35407.9	33425.4	31031.1	30157.2	30077.8	30836.1	30745.8	18225.8
42.5°	38448.6	38589.4	38838.6	39206.9	38116.3	36141.0	34079.0	34187.3	34418.4	33786.5	19590.8
45°	37729.9	37953.8	38932.5	41207.5	42233.1	41568.6	39109.4	38730.2	37751.6	37090.7	20963.1
47.5°	34736.2	35281.5	36917.4	40705.6	44295.1	46541.3	44786.2	44284.3	41088.4	39503.0	21837.0
50°	29814.2	29846.7	32125.3	36968.0	43226.2	49679.4	50582.2	50206.7	44197.6	40857.2	22277.6
52.5°	21613.1	22324.5	24411.8	30020.0	38596.6	49202.7	54276.5	54121.2	47404.4	41550.6	22913.1
54°	16431.0	16568.2	18424.4	23989.3	33277.3	46584.6	54504.0	54540.1	48996.9	41969.5	23288.7
55°	13469.8	13141.2	15091.2	20435.8	29648.0	44269.8	53760.1	53933.4	49711.9	42186.2	23566.8
57.5°	6384.6	6388.2	7879.7	10779.5	18568.8	34375.1	49213.6	49827.5	49791.4	42558.1	24422.6
60°	3232.0	3253.7	3582.3	4976.2	9172.5	22851.7	40691.1	42153.7	45959.9	42612.3	24704.3
62.5°	2260.6	2235.3	2181.2	2394.2	3860.4	11613.7	30294.4	31565.6	39048.0	40550.3	23808.7
65°	1935.6	1881.4	1729.8	1697.3	1950.1	4626.0	18868.6	20941.4	29814.2	35111.8	21259.2
67.5°	1653.9	1632.3	1495.0	1412.0	1379.5	2015.1	9735.8	10826.4	20378.1	25238.8	16102.4
70°	1404.8	1393.9	1310.9	1206.1	1115.9	1206.1	3611.2	4474.3	11357.3	13589.0	7598.0
72.5°	1141.1	1152.0	1166.4	1032.8	938.9	855.9	1542.0	1794.8	4752.4	4857.1	2657.9
75°	1000.3	989.5	989.5	899.2	783.6	635.6	848.6	913.6	1455.3	1350.6	617.5
77.5°	704.2	678.9	794.5	740.3	653.6	451.4	483.9	512.8	603.1	516.4	288.9
80°	487.5	487.5	509.2	664.5	588.6	328.6	296.1	317.8	357.5	307.0	166.1
82.5°	274.5	281.7	332.2	353.9	343.1	220.3	195.0	198.6	238.3	209.5	104.7
85°	32.5	54.2	191.4	187.8	140.8	97.5	108.3	111.9	148.1	130.0	61.4
87.5°	3.6	7.2	39.7	50.6	36.1	39.7	39.7	39.7	50.6	57.8	43.3
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°	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7	11891.7
2.5°	11938.7	11664.2	11010.6	10252.2	9768.3	8981.1	8316.6	7836.3	7717.2	7486.0	7554.7
5°	11924.2	11353.6	10021.1	8612.7	7110.5	5991.0	5156.8	4499.6	4210.7	4019.3	3885.7
7.5°	11931.4	11039.5	8901.6	6659.1	4864.3	3766.5	2993.7	2592.8	2325.6	2213.7	2228.1
10°	11953.1	10685.6	7601.6	4932.9	3282.6	2434.0	1960.9	1769.5	1679.2	1664.8	1661.2
12.5°	12003.7	10299.2	6359.3	3661.8	2296.7	1769.5	1588.9	1523.9	1495.0	1495.0	1484.2
15°	12057.8	9873.0	5326.5	2722.9	1769.5	1520.3	1437.3	1404.8	1386.7	1386.7	1383.1
17.5°	12057.8	9381.9	4362.3	2112.6	1523.9	1397.5	1332.5	1289.2	1274.8	1274.8	1271.1
20°	11982.0	8811.4	3506.5	1700.9	1383.1	1282.0	1217.0	1170.0	1152.0	1144.8	1141.1
22.5°	11718.4	8049.4	2791.5	1462.5	1267.5	1180.9	1097.8	1043.6	1029.2	1022.0	1025.6
25°	11248.9	7189.9	2210.1	1285.6	1162.8	1058.1	985.9	946.1	931.7	931.7	935.3
27.5°	10765.0	6290.7	1751.4	1152.0	1036.4	942.5	884.7	859.5	855.9	866.7	870.3
30°	10317.2	5387.9	1419.2	1043.6	924.5	845.0	805.3	798.1	798.1	801.7	805.3
32.5°	9818.9	4597.1	1188.1	949.7	834.2	765.6	743.9	743.9	751.1	751.1	758.4
35°	9504.7	3918.2	1043.6	859.5	765.6	707.8	693.4	697.0	707.8	722.2	729.5
37.5°	9335.0	3376.5	949.7	787.2	700.6	660.9	646.4	653.6	678.9	704.2	707.8
40°	9349.4	2968.4	873.9	725.9	650.0	606.7	595.8	617.5	642.8	668.1	671.7
42.5°	9508.3	2665.1	801.7	653.6	606.7	545.3	541.7	563.3	574.2	599.5	603.1
45°	9696.1	2444.8	725.9	577.8	527.2	473.1	476.7	494.7	509.2	548.9	556.1
47.5°	9753.9	2293.1	639.2	491.1	433.3	415.3	418.9	429.7	458.6	494.7	498.3
50°	9818.9	2199.2	556.1	415.3	368.3	364.7	368.3	375.6	393.6	408.1	404.5
52.5°	10096.9	2195.6	487.5	361.1	314.2	321.4	325.0	321.4	307.0	285.3	278.1
54°	10357.0	2206.4	455.0	335.8	288.9	299.7	296.1	278.1	242.0	220.3	209.5
55°	10566.4	2217.3	437.0	317.8	274.5	278.1	281.7	245.6	198.6	176.9	169.7
57.5°	10978.1	2192.0	393.6	278.1	242.0	227.5	223.9	162.5	108.3	93.9	86.7
60°	10772.2	1978.9	357.5	238.3	205.8	184.2	151.7	90.3	54.2	39.7	39.7
62.5°	9963.3	1679.2	317.8	195.0	169.7	140.8	79.4	50.6	25.3	14.4	10.8
65°	8912.5	1412.0	285.3	155.3	133.6	90.3	43.3	32.5	10.8	0.0	0.0
67.5°	6626.6	1047.3	242.0	122.8	101.1	57.8	28.9	18.1	3.6	0.0	0.0
70°	3069.5	639.2	205.8	93.9	72.2	43.3	21.7	10.8	0.0	0.0	0.0
72.5°	881.1	400.8	169.7	68.6	50.6	36.1	18.1	7.2	3.6	0.0	0.0
75°	307.0	321.4	126.4	50.6	39.7	25.3	14.4	7.2	3.6	0.0	0.0
77.5°	184.2	260.0	79.4	43.3	32.5	21.7	14.4	7.2	3.6	3.6	0.0
80°	104.7	173.3	50.6	36.1	28.9	18.1	10.8	7.2	3.6	3.6	0.0
82.5°	57.8	83.1	39.7	32.5	25.3	18.1	10.8	7.2	3.6	3.6	3.6
85°	46.9	43.3	32.5	28.9	21.7	14.4	10.8	3.6	0.0	0.0	0.0
87.5°	36.1	28.9	28.9	28.9	21.7	14.4	10.8	3.6	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)