

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: P459199

Luminaire Tested: **GALN-SA6D-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34213 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

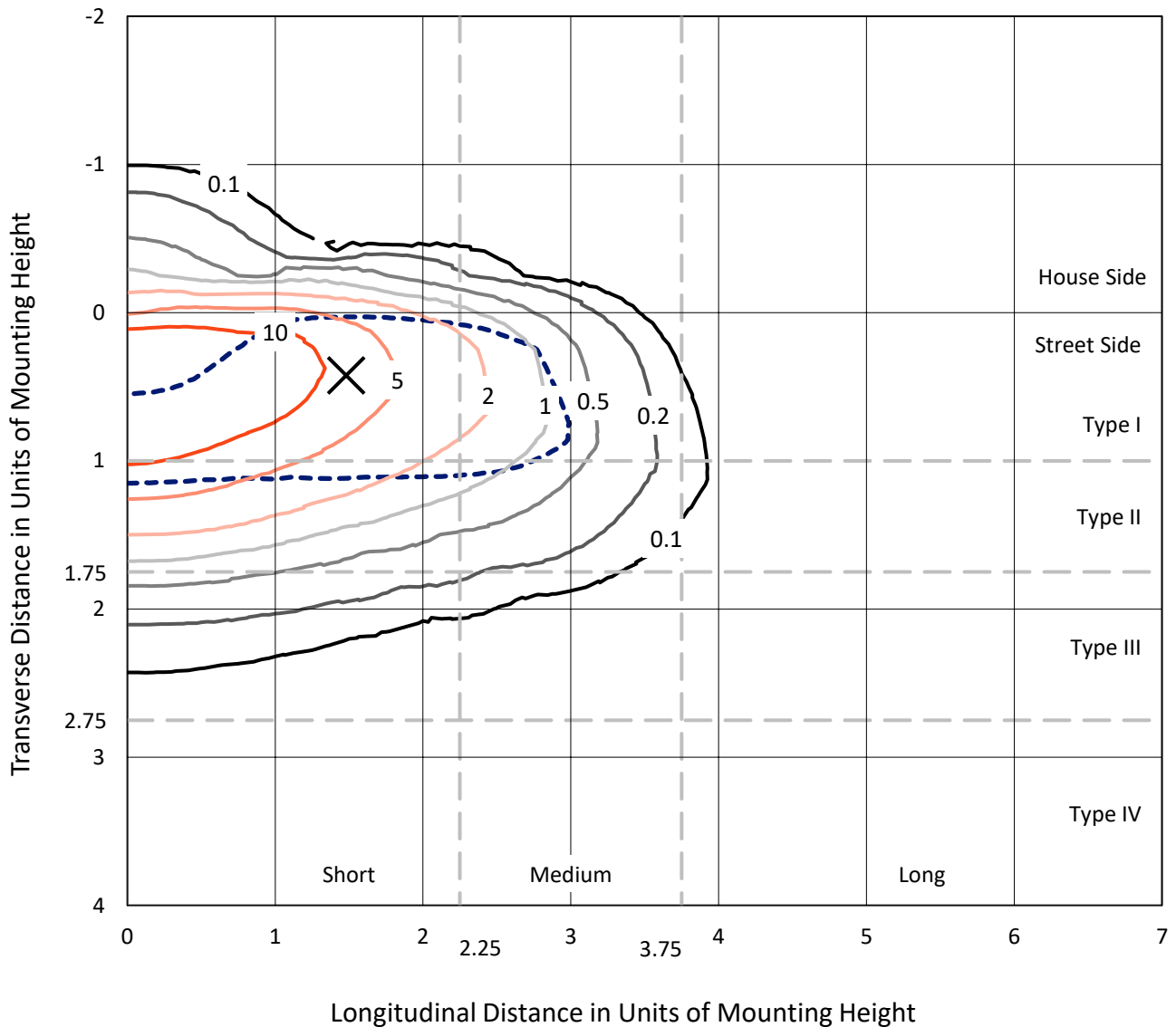
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

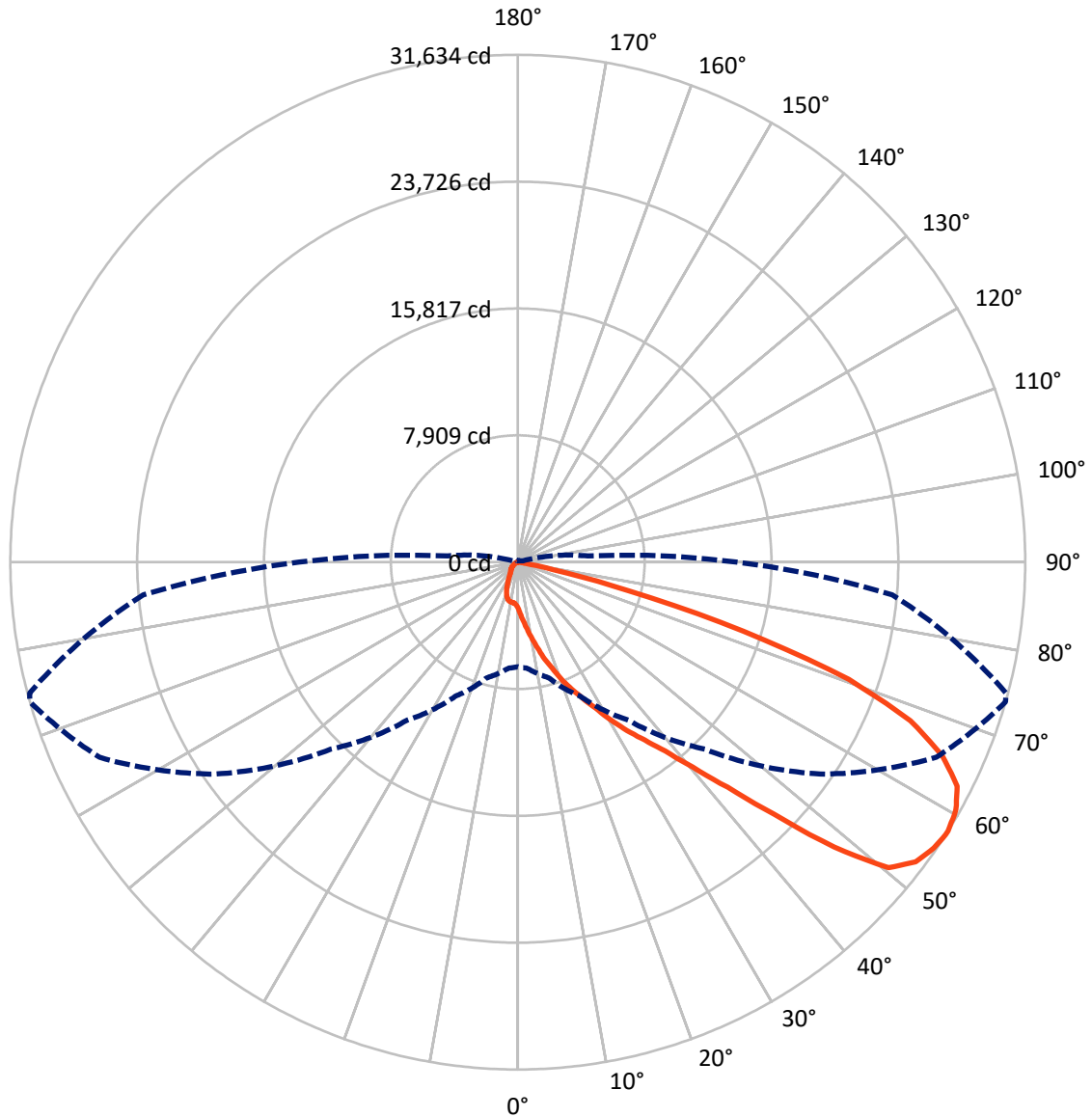
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1973.3	0.0	1973.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	32239.7	0.0	32239.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	34213.0	0.0	34213.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	1.0
10°-20°	1363.2	4.0
20°-30°	2916.9	8.5
30°-40°	5361.2	15.7
40°-50°	8218.8	24.0
50°-60°	8694.4	25.4
60°-70°	5677.7	16.6
70°-80°	1551.4	4.5
80°-90°	83.5	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°	34213.0	100.0
0°-180°	34213.0	100.0

Coefficient of Utilization



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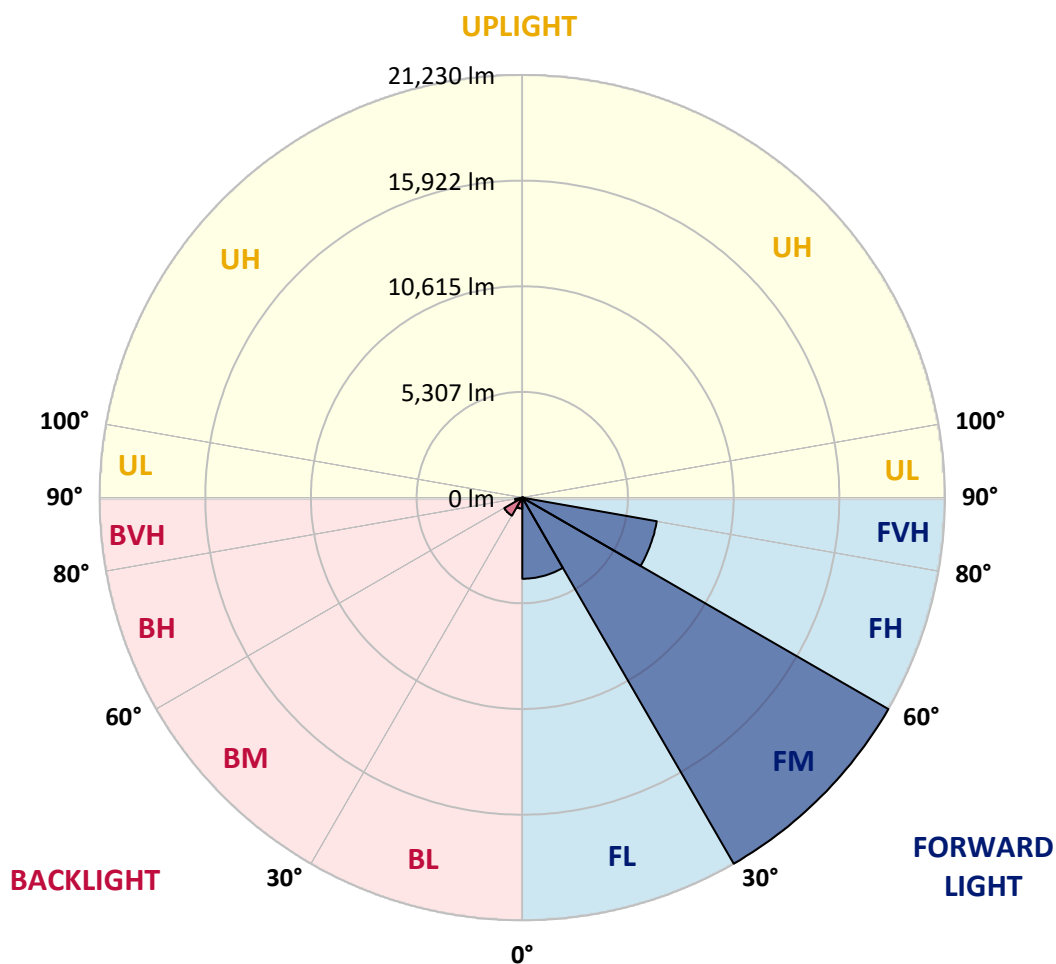
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4074.7	11.9			
FM	(30°-60°)	21229.8	62.1			
FH	(60°-80°)	6858.6	20.0			G3/7500
FVH	(80°-90°)	76.6	0.2			G1/100
BL	(0°-30°)	551.2	1.6	B2/1000		
BM	(30°-60°)	1044.7	3.1	B2/2500		
BH	(60°-80°)	370.5	1.1	B1/500		G1/500
BVH	(80°-90°)	6.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3
2.5°	4192.8	4155.0	4079.4	4053.5	3942.4	3770.0	3618.8	3415.7	3255.0	3238.5	3044.8
5°	5614.8	5529.8	5494.4	5324.3	5057.4	4807.0	4377.1	4051.1	3675.5	3647.2	3257.4
7.5°	6984.9	6866.8	6831.4	6670.7	6358.9	5964.4	5407.0	4814.1	4218.8	4164.5	3543.2
10°	7977.0	7993.5	7929.8	7823.5	7570.7	7169.1	6481.8	5671.5	4823.5	4755.0	3864.5
12.5°	8688.0	8685.6	8697.5	8695.1	8560.5	8255.7	7532.9	6599.9	5489.6	5355.0	4233.0
15°	9151.0	9158.1	9193.5	9316.3	9330.5	9141.5	8539.2	7488.0	6262.1	6094.4	4632.2
17.5°	9618.7	9668.3	9725.0	9840.7	9944.7	9869.1	9443.9	8414.0	6961.3	6836.1	5059.7
20°	10391.1	10459.6	10426.6	10497.4	10551.7	10558.8	10230.5	9269.1	7809.3	7599.1	5548.7
22.5°	11626.5	11624.2	11539.1	11411.6	11305.3	11300.6	11002.9	10147.8	8579.3	8376.2	6040.0
25°	13187.9	13195.0	13029.6	12665.9	12401.3	12077.7	11735.2	10917.9	9403.7	9153.4	6557.3
27.5°	14978.4	14933.5	14683.2	14182.4	13658.0	13105.2	12611.5	11813.1	10277.7	10069.9	7150.2
30°	16587.1	16570.5	16277.6	15665.8	14976.1	14421.0	13705.2	12935.2	11409.2	11154.1	7814.0
32.5°	18084.7	18108.3	17702.0	17068.9	16402.8	15762.7	15006.8	14007.6	12519.4	12158.0	8536.8
35°	19253.9	19277.5	18857.1	18330.3	17645.3	17113.8	16393.4	15150.9	13615.5	13310.7	9368.3
37.5°	19877.5	19908.2	19664.9	19268.1	18840.5	18573.6	17902.8	16622.5	14947.7	14763.5	10351.0
40°	19995.6	20031.1	19924.8	19818.5	19794.9	19986.2	19790.1	18356.3	16794.9	16506.7	11815.5
42.5°	19641.3	19688.6	19735.8	19972.0	20453.9	21155.5	21838.1	20709.0	19173.6	18786.2	13606.0
45°	18710.6	18705.9	18892.5	19504.3	20583.8	22081.4	23978.2	23654.6	22414.5	21953.9	16135.9
47.5°	17118.5	17094.9	17498.8	18370.5	20052.3	22251.5	25723.9	27230.9	26550.6	26125.4	18854.7
50°	14692.6	14808.4	15443.8	16660.3	18731.9	21736.6	26262.4	29576.5	29945.0	29493.9	21051.5
52.5°	11850.9	11846.2	12843.0	14494.2	16776.0	20602.7	25886.9	30001.7	31048.2	30703.3	22133.4
55°	8770.7	8832.1	9869.1	11534.4	14236.7	18533.5	24660.9	29564.7	31468.6	31225.3	22846.8
57°	6524.3	6632.9	7464.4	9226.6	12025.7	16485.5	23028.7	28782.9	31634.0	31501.7	23439.7
57.5°	6089.6	6094.4	6904.6	8506.1	11378.5	15698.9	22560.9	28456.9	31629.3	31556.0	23536.5
60°	3748.7	3866.8	4426.7	5749.5	8329.0	12252.5	19426.4	26583.7	31383.6	31489.9	23949.9
62.5°	2244.0	2293.7	2657.4	3465.3	5369.2	8943.1	15897.3	24186.1	30743.4	31067.1	23921.5
65°	1443.3	1455.1	1620.4	2097.6	3356.6	6044.8	12250.1	21018.5	29087.6	29682.8	22986.1
67.5°	1114.9	1133.8	1200.0	1377.1	1946.4	3765.3	8664.4	17638.2	26408.9	27176.6	20718.5
70°	989.7	999.2	1022.8	1079.5	1287.4	2125.9	5390.4	13778.5	21899.5	22116.9	16213.8
72.5°	807.9	833.8	907.1	926.0	1020.5	1327.5	2999.9	9247.8	14713.9	14768.2	9070.7
75°	626.0	630.7	739.4	793.7	859.8	914.2	1339.3	4662.9	7067.6	6689.6	3496.0
77.5°	467.7	489.0	538.6	607.1	701.6	654.3	600.0	1757.4	2194.4	2154.3	1015.7
80°	300.0	311.8	375.6	455.9	545.7	427.6	337.8	514.9	481.9	496.1	243.3
82.5°	151.2	153.5	240.9	370.9	347.2	215.0	212.6	210.2	179.5	177.2	113.4
85°	16.5	35.4	155.9	212.6	155.9	70.9	99.2	96.8	94.5	96.8	66.1
87.5°	2.4	2.4	26.0	30.7	21.3	23.6	28.3	30.7	37.8	35.4	28.3
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°	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3	2865.3
2.5°	2950.3	2855.8	2681.0	2513.3	2388.1	2307.8	2203.9	2166.1	2111.8	2104.7	2078.7
5°	3077.9	2898.4	2593.6	2352.7	2159.0	2012.6	1885.0	1778.7	1693.7	1674.8	1684.2
7.5°	3259.8	2992.9	2567.7	2239.3	1970.0	1719.6	1516.5	1391.3	1301.5	1268.5	1273.2
10°	3465.3	3118.0	2562.9	2118.9	1707.8	1400.8	1178.7	1067.7	1015.7	996.8	975.6
12.5°	3708.6	3262.1	2551.1	1932.2	1419.7	1117.3	959.0	892.9	843.3	829.1	829.1
15°	3982.6	3415.7	2494.4	1700.8	1152.7	923.6	817.3	765.3	748.8	734.6	734.6
17.5°	4268.4	3566.9	2376.3	1414.9	956.7	791.3	725.2	694.5	670.9	654.3	654.3
20°	4594.4	3715.7	2187.4	1162.2	807.9	706.3	654.3	618.9	600.0	585.8	581.1
22.5°	4903.8	3836.1	1946.4	954.3	703.9	635.4	588.2	550.4	531.5	524.4	524.4
25°	5225.1	3909.4	1655.9	789.0	642.5	576.4	524.4	493.7	477.2	472.4	470.1
27.5°	5536.9	3951.9	1400.8	689.7	585.8	522.0	472.4	448.8	432.3	427.6	429.9
30°	5914.8	3959.0	1152.7	618.9	536.2	470.1	425.2	403.9	394.5	389.8	387.4
32.5°	6297.5	3949.5	968.5	576.4	489.0	425.2	387.4	370.9	363.8	356.7	356.7
35°	6727.4	3899.9	824.4	533.8	444.1	387.4	354.3	340.2	330.7	323.6	321.3
37.5°	7261.3	3873.9	741.7	486.6	403.9	352.0	321.3	307.1	300.0	290.5	288.2
40°	8102.2	3989.7	715.7	444.1	363.8	318.9	290.5	274.0	264.6	255.1	252.8
42.5°	9151.0	4192.8	673.2	401.6	328.3	288.2	259.8	240.9	224.4	212.6	207.9
45°	10509.2	4459.7	607.1	356.7	297.6	255.1	229.1	205.5	184.2	174.8	172.4
47.5°	11933.6	4717.2	548.0	321.3	264.6	226.8	198.4	172.4	153.5	146.5	144.1
50°	12807.6	4769.2	510.2	281.1	231.5	196.1	167.7	144.1	132.3	125.2	125.2
52.5°	13206.8	4686.5	458.3	245.7	200.8	172.4	144.1	125.2	118.1	113.4	111.0
55°	13485.5	4559.0	389.8	212.6	172.4	146.5	127.6	113.4	103.9	99.2	96.8
57°	13648.5	4386.5	337.8	186.6	148.8	127.6	113.4	101.6	92.1	82.7	82.7
57.5°	13655.6	4320.4	323.6	184.2	141.7	122.8	111.0	99.2	87.4	78.0	75.6
60°	13445.4	3866.8	259.8	155.9	113.4	103.9	92.1	78.0	61.4	52.0	49.6
62.5°	12769.8	3290.5	215.0	132.3	92.1	80.3	66.1	59.1	42.5	30.7	30.7
65°	11747.0	2669.2	184.2	106.3	75.6	59.1	44.9	42.5	26.0	14.2	11.8
67.5°	10268.3	2078.7	155.9	87.4	63.8	42.5	30.7	28.3	14.2	4.7	0.0
70°	7823.5	1417.3	129.9	70.9	47.2	30.7	21.3	16.5	9.4	2.4	0.0
72.5°	4509.4	779.5	108.7	54.3	35.4	23.6	16.5	9.4	9.4	0.0	0.0
75°	1611.0	335.4	82.7	40.2	28.3	18.9	11.8	4.7	7.1	2.4	0.0
77.5°	512.6	179.5	54.3	30.7	23.6	14.2	9.4	4.7	4.7	2.4	0.0
80°	151.2	94.5	33.1	26.0	16.5	11.8	7.1	2.4	4.7	2.4	0.0
82.5°	82.7	47.2	26.0	18.9	16.5	9.4	7.1	2.4	2.4	2.4	0.0
85°	42.5	28.3	21.3	18.9	16.5	9.4	7.1	2.4	0.0	2.4	2.4
87.5°	23.6	21.3	21.3	18.9	16.5	11.8	7.1	2.4	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)