

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: P458242

Luminaire Tested: **GALN-SA9C-827-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458242
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-SA9C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1050mA 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: 37511 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

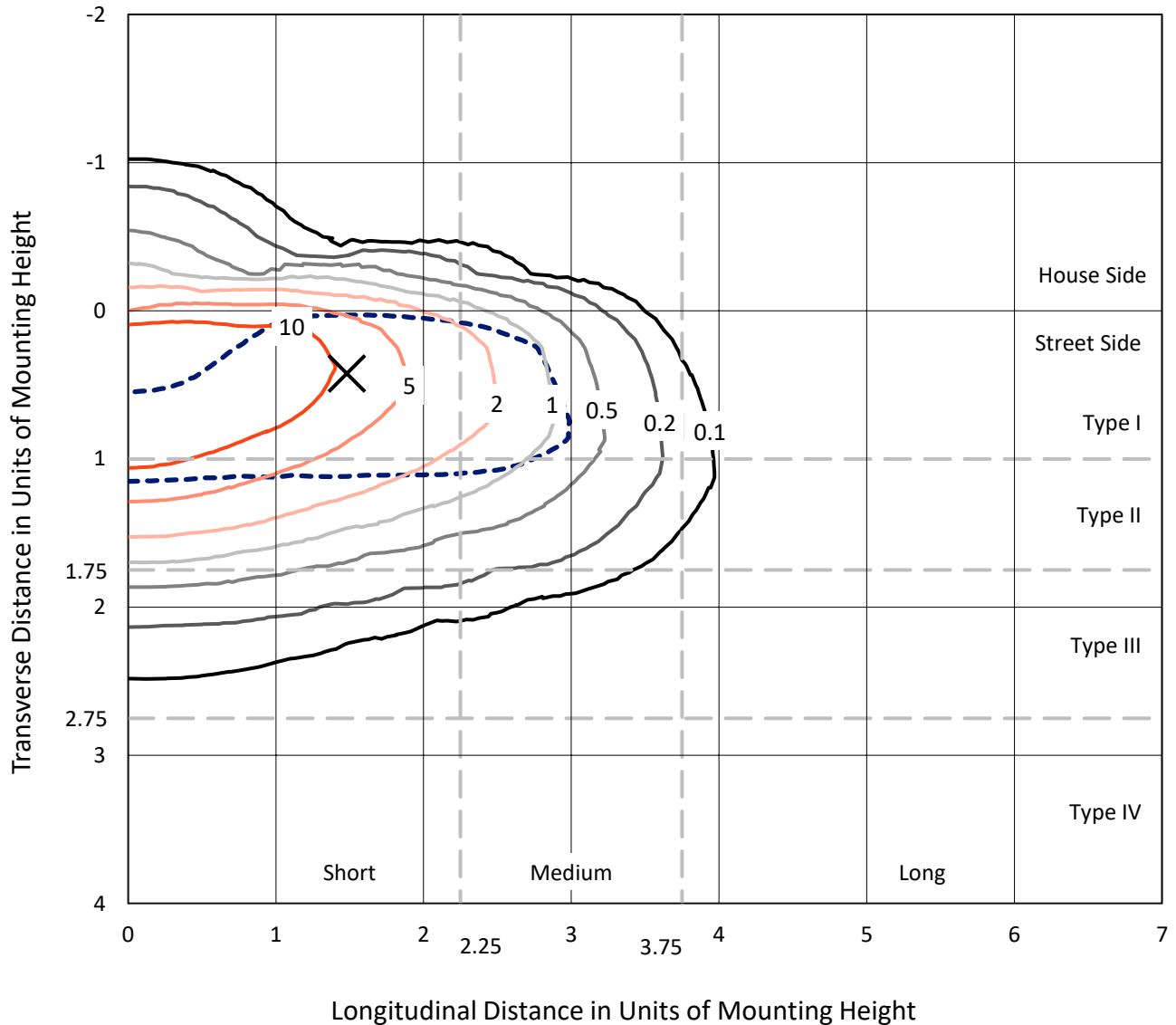
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458242
 CATALOG NUMBER: GALN-SA9C-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

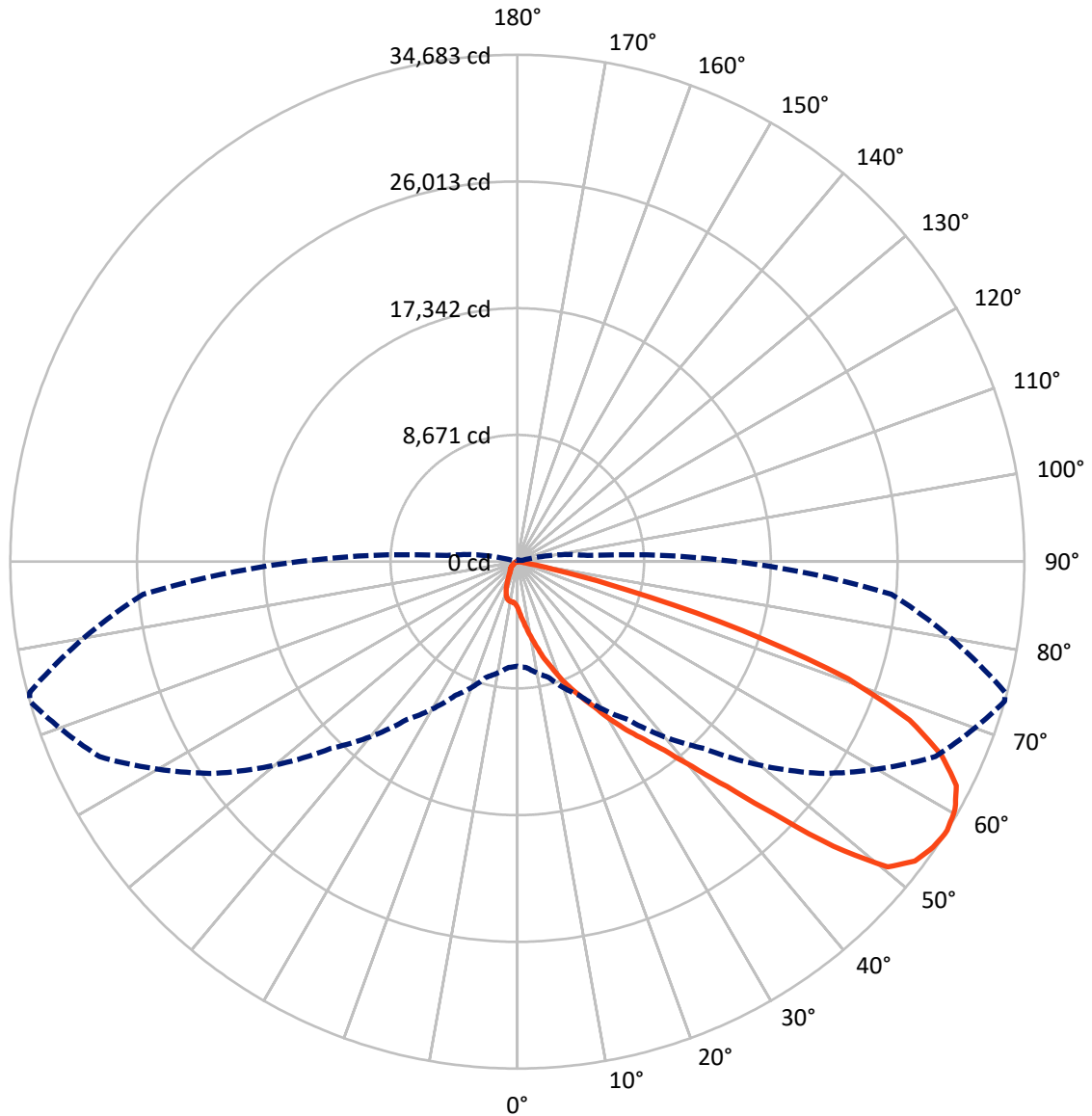
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type II - Short - N/A

REPORT NUMBER: P458242
CATALOG NUMBER: GALN-SA9C-827-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458242

CATALOG NUMBER: GALN-SA9C-827-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2163.5	0.0	2163.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	35347.5	0.0	35347.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	37511.0	0.0	37511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.2	1.0
10°-20°	1494.6	4.0
20°-30°	3198.1	8.5
30°-40°	5878.0	15.7
40°-50°	9011.1	24.0
50°-60°	9532.5	25.4
60°-70°	6225.0	16.6
70°-80°	1700.9	4.5
80°-90°	91.6	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°	37511.0	100.0
0°-180°	37511.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458242

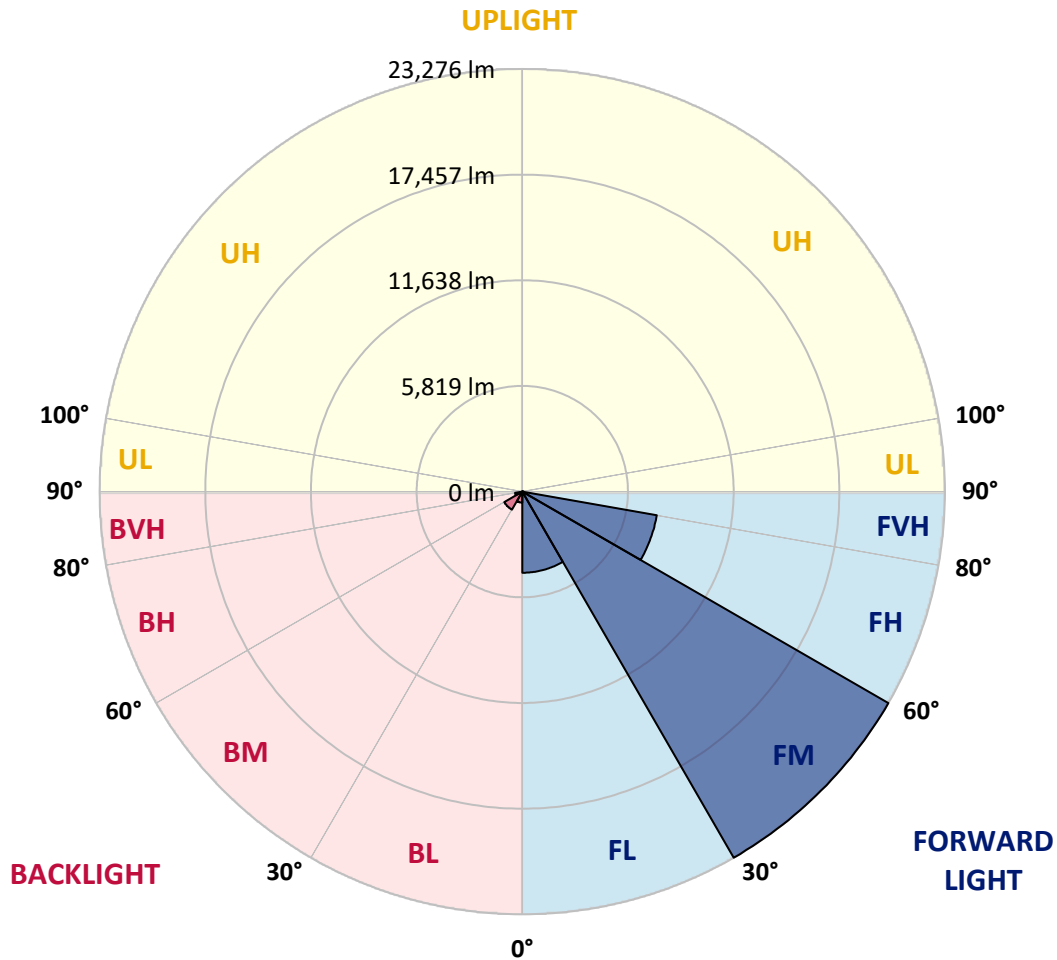
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4467.5	11.9			
FM (30°-60°)	23276.3	62.1			
FH (60°-80°)	7519.7	20.0			G4/12000
FVH (80°-90°)	84.0	0.2			G1/100
BL (0°-30°)	604.3	1.6	B2/1000		
BM (30°-60°)	1145.4	3.1	B2/2500		
BH (60°-80°)	406.2	1.1	B1/500		G1/500
BVH (80°-90°)	7.6	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-G4

Type II Short





REPORT NUMBER: P458242

CATALOG NUMBER: GALN-SA9C-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	4597.0	4555.6	4472.7	4444.2	4322.5	4133.4	3967.7	3744.9	3568.8	3550.7	3338.3
5°	6156.1	6062.9	6024.0	5837.5	5544.9	5270.4	4799.0	4441.6	4029.8	3998.7	3571.4
7.5°	7658.2	7528.7	7489.9	7313.8	6971.9	6539.4	5928.2	5278.1	4625.5	4565.9	3884.8
10°	8745.9	8764.1	8694.2	8577.6	8300.5	7860.2	7106.6	6218.2	5288.5	5213.4	4237.0
12.5°	9525.5	9522.9	9535.9	9533.3	9385.6	9051.6	8259.1	7236.1	6018.8	5871.2	4641.0
15°	10033.1	10040.9	10079.7	10214.4	10229.9	10022.7	9362.3	8209.8	6865.7	6681.8	5078.7
17.5°	10545.9	10600.3	10662.4	10789.3	10903.3	10820.4	10354.3	9225.1	7632.3	7495.0	5547.5
20°	11392.8	11467.9	11431.6	11509.3	11568.9	11576.7	11216.7	10162.6	8562.1	8331.6	6083.6
22.5°	12747.3	12744.7	12651.5	12511.6	12395.1	12389.9	12063.6	11126.0	9406.4	9183.6	6622.3
25°	14459.2	14466.9	14285.7	13886.8	13596.8	13241.9	12866.4	11970.3	10310.2	10035.7	7189.4
27.5°	16422.3	16373.1	16098.6	15549.5	14974.6	14368.5	13827.3	12951.9	11268.5	11040.6	7839.5
30°	18186.0	18167.9	17846.7	17175.9	16419.7	15811.1	15026.4	14182.1	12509.0	12229.3	8567.2
32.5°	19828.0	19853.8	19408.4	18714.3	17984.0	17282.1	16453.4	15357.9	13726.2	13330.0	9359.7
35°	21109.9	21135.8	20674.8	20097.3	19346.2	18763.5	17973.6	16611.3	14927.9	14593.8	10271.4
37.5°	21793.7	21827.3	21560.6	21125.5	20656.7	20364.1	19628.5	18224.8	16388.6	16186.6	11348.8
40°	21923.1	21962.0	21845.4	21728.9	21703.0	21912.8	21697.8	20125.8	18413.9	18097.9	12954.5
42.5°	21534.7	21586.5	21638.3	21897.2	22425.6	23194.8	23943.2	22705.3	21021.9	20597.1	14917.6
45°	20514.3	20509.1	20713.7	21384.5	22568.0	24210.0	26289.6	25934.8	24575.2	24070.1	17691.3
47.5°	18768.7	18742.8	19185.7	20141.3	21985.3	24396.5	28203.6	29855.9	29110.0	28643.8	20672.2
50°	16108.9	16235.8	16932.5	18266.3	20537.6	23831.9	28794.0	32427.6	32831.6	32337.0	23080.8
52.5°	12993.3	12988.1	14081.1	15891.4	18393.2	22588.7	28382.3	32893.8	34041.1	33663.0	24267.0
55°	9616.1	9683.5	10820.4	12646.3	15609.1	20320.0	27038.1	32414.7	34502.1	34235.3	25049.1
57°	7153.2	7272.3	8184.0	10116.0	13185.0	18074.6	25248.5	31557.4	34683.4	34538.3	25699.2
57.5°	6676.7	6681.8	7570.2	9326.1	12475.3	17212.2	24735.7	31200.0	34678.2	34597.9	25805.3
60°	4110.1	4239.6	4853.4	6303.7	9131.8	13433.6	21299.0	29146.3	34408.8	34525.4	26258.6
62.5°	2460.4	2514.8	2913.6	3799.3	5886.7	9805.2	17429.7	26517.6	33707.0	34061.8	26227.5
65°	1582.4	1595.4	1776.6	2299.8	3680.2	6627.4	13431.0	23044.6	31891.5	32544.2	25201.9
67.5°	1222.4	1243.1	1315.6	1509.9	2134.0	4128.2	9499.6	19338.5	28954.6	29796.3	22715.6
70°	1085.2	1095.5	1121.4	1183.6	1411.5	2330.9	5910.1	15106.6	24010.6	24248.8	17776.8
72.5°	885.7	914.2	994.5	1015.2	1118.8	1455.5	3289.1	10139.3	16132.2	16191.8	9945.1
75°	686.3	691.5	810.6	870.2	942.7	1002.3	1468.4	5112.4	7748.9	7334.5	3833.0
77.5°	512.8	536.1	590.5	665.6	769.2	717.4	657.8	1926.9	2406.0	2362.0	1113.6
80°	328.9	341.9	411.8	499.8	598.3	468.8	370.3	564.6	528.3	543.9	266.8
82.5°	165.8	168.3	264.2	406.6	380.7	235.7	233.1	230.5	196.8	194.2	124.3
85°	18.1	38.8	170.9	233.1	170.9	77.7	108.8	106.2	103.6	106.2	72.5
87.5°	2.6	2.6	28.5	33.7	23.3	25.9	31.1	33.7	41.4	38.8	31.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458242

CATALOG NUMBER: GALN-SA9C-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	3234.7	3131.1	2939.5	2755.6	2618.3	2530.3	2416.3	2374.9	2315.3	2307.6	2279.1
5°	3374.6	3177.8	2843.7	2579.5	2367.1	2206.6	2066.7	1950.2	1856.9	1836.2	1846.6
7.5°	3574.0	3281.3	2815.2	2455.2	2159.9	1885.4	1662.7	1525.4	1427.0	1390.8	1395.9
10°	3799.3	3418.6	2810.0	2323.1	1872.5	1535.8	1292.3	1170.6	1113.6	1092.9	1069.6
12.5°	4066.1	3576.6	2797.0	2118.5	1556.5	1225.0	1051.5	979.0	924.6	909.0	909.0
15°	4366.5	3744.9	2734.9	1864.7	1263.9	1012.6	896.1	839.1	821.0	805.4	805.4
17.5°	4679.9	3910.7	2605.4	1551.3	1048.9	867.6	795.1	761.4	735.5	717.4	717.4
20°	5037.3	4073.8	2398.2	1274.2	885.7	774.4	717.4	678.5	657.8	642.3	637.1
22.5°	5376.5	4205.9	2134.0	1046.3	771.8	696.7	644.9	603.4	582.7	574.9	574.9
25°	5728.8	4286.2	1815.5	865.0	704.4	631.9	574.9	541.3	523.2	518.0	515.4
27.5°	6070.6	4332.8	1535.8	756.2	642.3	572.4	518.0	492.1	473.9	468.8	471.4
30°	6485.0	4340.6	1263.9	678.5	587.9	515.4	466.2	442.9	432.5	427.3	424.7
32.5°	6904.6	4330.2	1061.8	631.9	536.1	466.2	424.7	406.6	398.8	391.1	391.1
35°	7375.9	4275.9	903.9	585.3	486.9	424.7	388.5	372.9	362.6	354.8	352.2
37.5°	7961.2	4247.4	813.2	533.5	442.9	385.9	352.2	336.7	328.9	318.6	316.0
40°	8883.2	4374.3	784.7	486.9	398.8	349.6	318.6	300.4	290.1	279.7	277.1
42.5°	10033.1	4597.0	738.1	440.3	360.0	316.0	284.9	264.2	246.0	233.1	227.9
45°	11522.3	4889.7	665.6	391.1	326.3	279.7	251.2	225.3	202.0	191.6	189.1
47.5°	13084.0	5171.9	600.8	352.2	290.1	248.6	217.5	189.1	168.3	160.6	158.0
50°	14042.2	5228.9	559.4	308.2	253.8	215.0	183.9	158.0	145.0	137.3	137.3
52.5°	14479.9	5138.3	502.4	269.3	220.1	189.1	158.0	137.3	129.5	124.3	121.7
55°	14785.5	4998.4	427.3	233.1	189.1	160.6	139.9	124.3	114.0	108.8	106.2
57°	14964.2	4809.4	370.3	204.6	163.2	139.9	124.3	111.4	101.0	90.6	90.6
57.5°	14972.0	4736.8	354.8	202.0	155.4	134.7	121.7	108.8	95.8	85.5	82.9
60°	14741.5	4239.6	284.9	170.9	124.3	114.0	101.0	85.5	67.3	57.0	54.4
62.5°	14000.8	3607.7	235.7	145.0	101.0	88.1	72.5	64.7	46.6	33.7	33.7
65°	12879.4	2926.5	202.0	116.5	82.9	64.7	49.2	46.6	28.5	15.5	12.9
67.5°	11258.1	2279.1	170.9	95.8	69.9	46.6	33.7	31.1	15.5	5.2	0.0
70°	8577.6	1553.9	142.4	77.7	51.8	33.7	23.3	18.1	10.4	2.6	0.0
72.5°	4944.0	854.7	119.1	59.6	38.8	25.9	18.1	10.4	10.4	0.0	0.0
75°	1766.3	367.8	90.6	44.0	31.1	20.7	12.9	5.2	7.8	2.6	0.0
77.5°	562.0	196.8	59.6	33.7	25.9	15.5	10.4	5.2	5.2	2.6	0.0
80°	165.8	103.6	36.3	28.5	18.1	12.9	7.8	2.6	5.2	2.6	0.0
82.5°	90.6	51.8	28.5	20.7	18.1	10.4	7.8	2.6	2.6	2.6	0.0
85°	46.6	31.1	23.3	20.7	18.1	10.4	7.8	2.6	0.0	2.6	2.6
87.5°	25.9	23.3	23.3	20.7	18.1	12.9	7.8	2.6	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)