

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: P455228

Luminaire Tested: **GALN-SA6B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18211 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

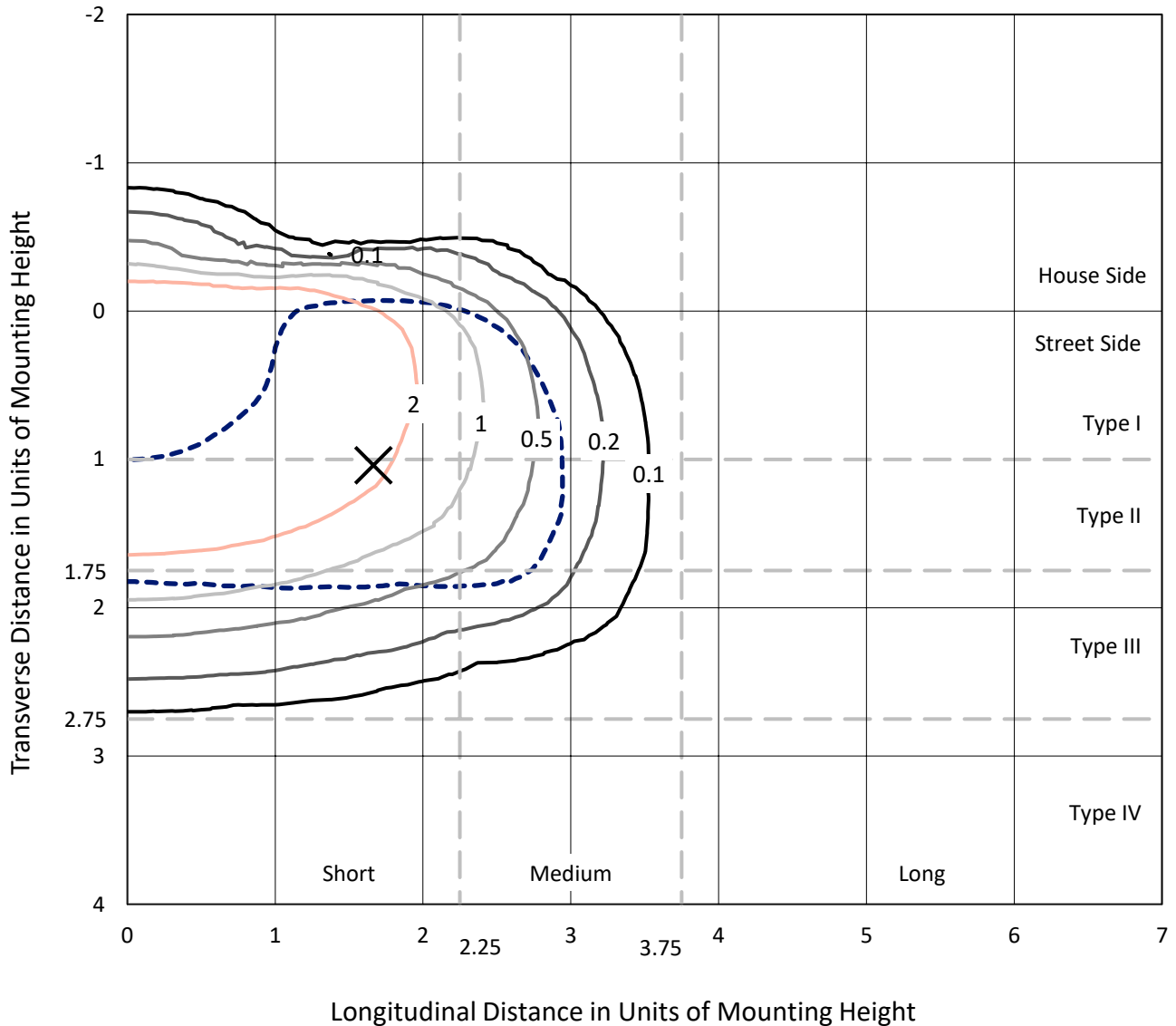
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455228
 CATALOG NUMBER: GALN-SA6B-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

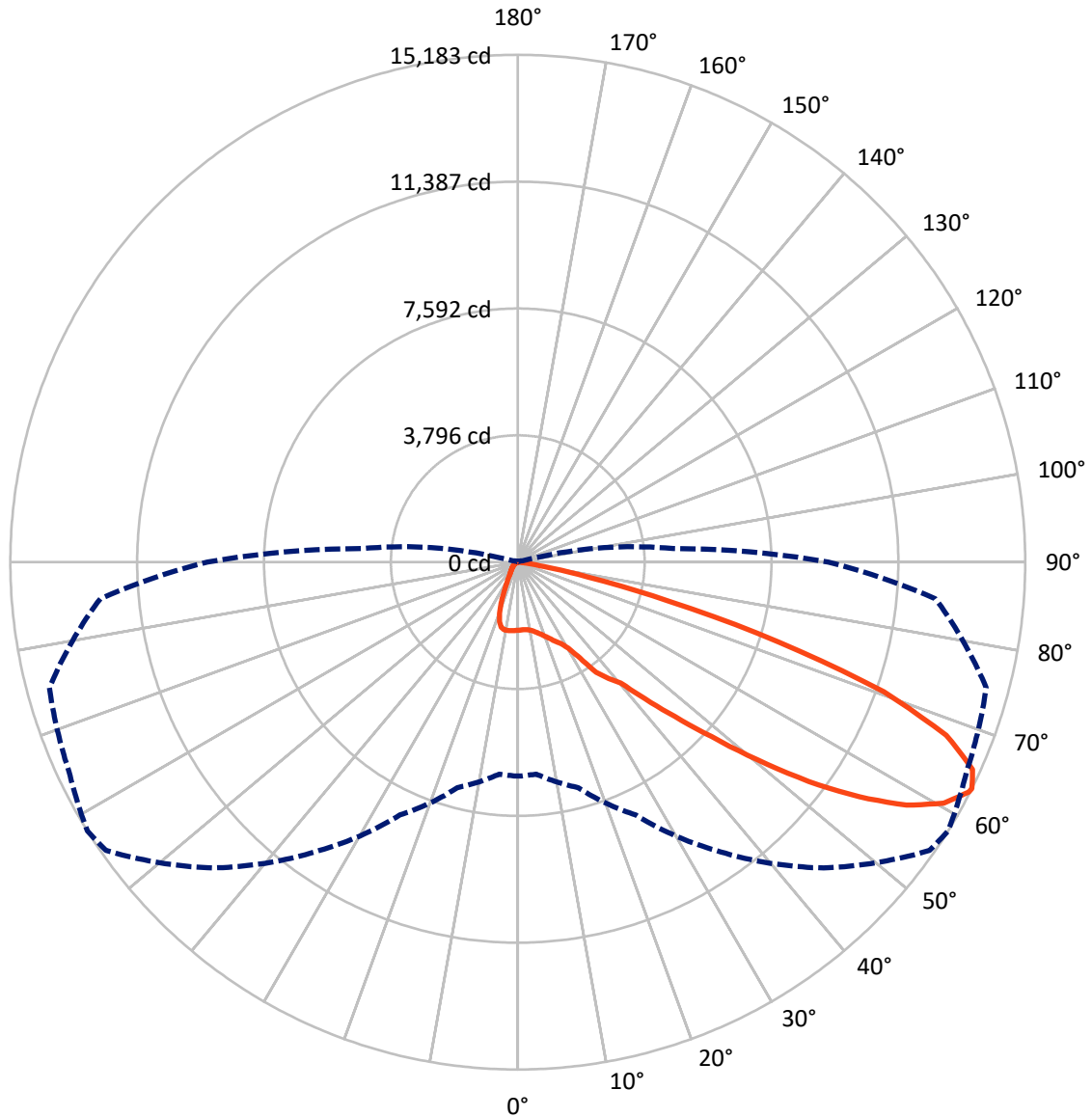
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

REPORT NUMBER: P455228
CATALOG NUMBER: GALN-SA6B-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P455228

CATALOG NUMBER: GALN-SA6B-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1885.6	0.0	1885.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	16325.4	0.0	16325.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	18211.0	0.0	18211.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	1.0
10°-20°	519.8	2.9
20°-30°	902.2	5.0
30°-40°	1657.9	9.1
40°-50°	3120.9	17.1
50°-60°	5338.1	29.3
60°-70°	5111.2	28.1
70°-80°	1303.4	7.2
80°-90°	66.6	0.4
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°	18211.0	100.0
0°-180°	18211.0	100.0



REPORT NUMBER: P455228

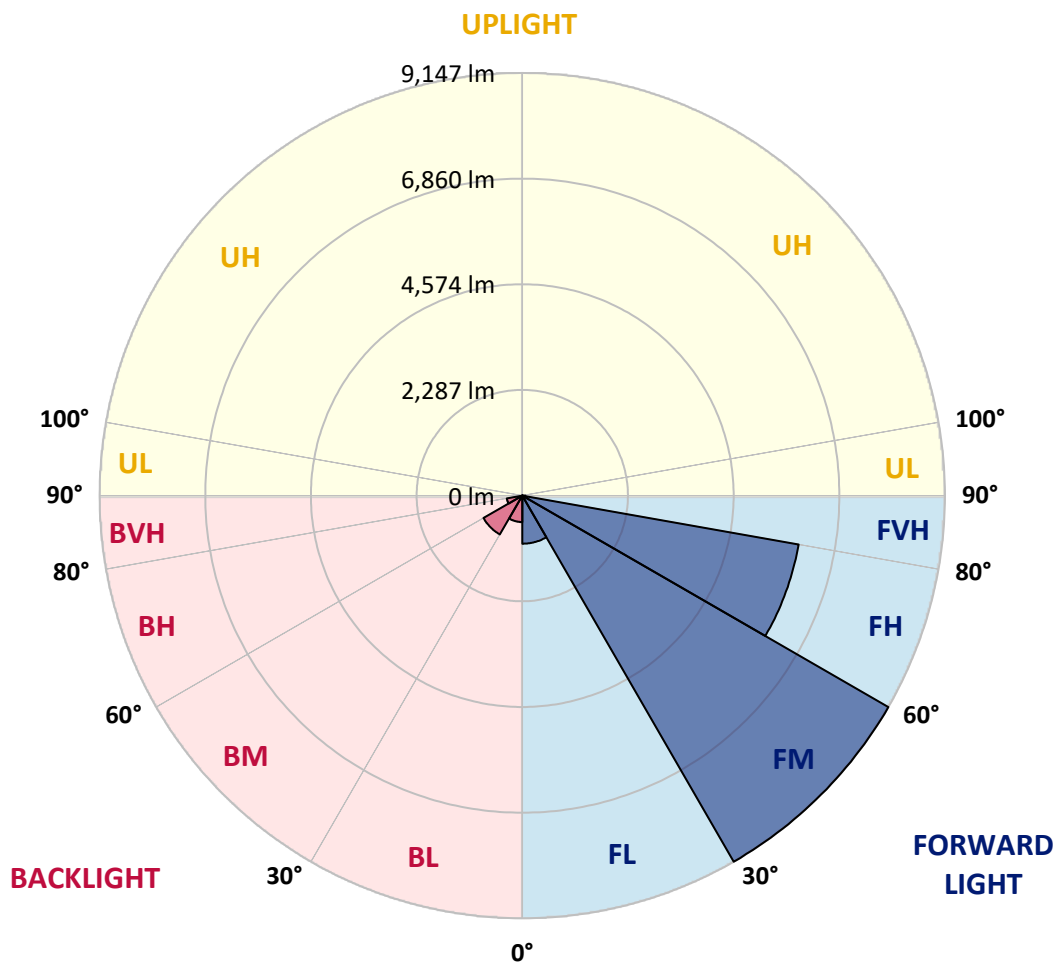
CATALOG NUMBER: GALN-SA6B-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1041.0	5.7			
FM	(30°-60°)	9147.0	50.2			
FH	(60°-80°)	6073.3	33.3			G3/7500
FVH	(80°-90°)	64.1	0.4			G1/100
BL	(0°-30°)	571.9	3.1	B2/1000		
BM	(30°-60°)	969.9	5.3	B1/1000		
BH	(60°-80°)	341.3	1.9	B1/500		G1/500
BVH	(80°-90°)	2.6	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-G3

Type III Short





REPORT NUMBER: P455228

CATALOG NUMBER: GALN-SA6B-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8
2.5°	1988.1	1994.9	2001.8	2004.5	2014.1	2023.7	2030.6	2029.2	2040.2	2045.6	2045.6
5°	1908.5	1908.5	1926.4	1942.8	1970.2	1997.7	2023.7	2029.2	2049.8	2069.0	2075.8
7.5°	1841.4	1845.5	1859.2	1889.3	1926.4	1974.4	2026.5	2038.8	2074.4	2116.9	2134.8
10°	1809.8	1812.6	1830.4	1861.9	1908.5	1974.4	2047.0	2070.3	2125.2	2192.4	2217.0
12.5°	1803.0	1807.1	1824.9	1860.6	1914.0	1993.5	2092.3	2116.9	2196.5	2282.8	2319.9
15°	1815.3	1818.0	1835.9	1874.3	1933.2	2027.8	2152.6	2186.9	2281.5	2381.6	2429.5
17.5°	1859.2	1856.4	1868.8	1900.3	1966.1	2070.3	2225.3	2266.4	2377.4	2514.6	2546.1
20°	2045.6	2027.8	2016.9	1989.4	2015.5	2130.7	2313.0	2373.3	2510.4	2650.3	2672.2
22.5°	2447.4	2407.6	2329.5	2222.5	2140.3	2212.9	2418.6	2488.5	2665.4	2802.5	2802.5
25°	2958.8	2908.1	2829.9	2596.8	2395.3	2348.7	2537.9	2625.6	2834.0	2972.5	2927.2
27.5°	3599.1	3559.3	3407.1	3135.7	2827.2	2585.9	2676.3	2757.2	2983.5	3150.7	3056.1
30°	4120.1	4100.9	3976.1	3733.4	3393.4	3041.0	2934.1	2987.6	3182.3	3375.6	3278.2
32.5°	4560.2	4560.2	4432.7	4206.5	3888.4	3575.8	3371.5	3409.9	3596.3	3819.8	3638.8
35°	5044.2	5027.7	4924.9	4709.7	4353.2	4077.6	3993.9	4046.0	4214.7	4380.6	3935.0
37.5°	5552.9	5547.4	5440.4	5232.0	4941.4	4594.5	4398.4	4412.1	4498.5	4600.0	4281.9
40°	6105.4	6113.6	5973.8	5844.9	5570.7	5215.6	4839.9	4753.5	4834.4	5121.0	4922.2
42.5°	6758.0	6738.8	6678.5	6503.0	6282.3	6069.8	5618.7	5587.1	5658.4	5965.6	5750.3
45°	7516.2	7543.7	7439.5	7342.1	7194.0	7017.2	6640.1	6585.3	6663.4	7140.6	6834.8
47.5°	8275.8	8249.8	8317.0	8299.1	8378.7	8247.0	7913.9	7801.4	7989.3	8441.7	7992.0
50°	8854.4	8883.2	9023.1	9227.3	9568.7	9642.8	9323.3	9284.9	9368.6	9659.2	9027.2
52.5°	9230.1	9326.1	9545.4	10070.6	10686.2	11164.7	10922.0	10901.4	10867.2	10945.3	10017.1
55°	9475.5	9572.9	9859.4	10632.7	11692.5	12469.9	12482.3	12394.5	12168.3	12112.1	10942.6
57.5°	9324.7	9343.9	9752.5	10786.3	12250.6	13400.9	13804.0	13716.3	13298.1	13085.6	11759.7
60°	8381.4	8421.2	8990.2	10204.9	12007.9	13705.3	14680.1	14640.4	14182.4	13942.5	12395.9
62.5°	6710.1	6825.2	7410.7	8765.3	10879.5	13192.5	15035.2	15147.7	14791.2	14460.8	12596.1
63°	6402.9	6365.9	6984.3	8345.7	10580.6	12938.9	15040.7	15183.3	14818.6	14510.1	12541.2
65°	4739.8	4850.9	5252.6	6581.2	8805.1	11758.4	14702.1	14954.3	14717.1	14292.1	11933.9
67.5°	2661.3	2655.8	3100.0	4306.6	6163.0	9223.2	13294.0	13827.3	13778.0	12825.1	9892.3
70°	1302.5	1323.1	1505.4	2232.1	3574.4	6363.2	11046.8	11622.6	11640.4	10073.3	6840.3
72.5°	589.6	599.2	729.4	1087.3	1837.2	3387.9	7612.2	8162.0	8060.6	6419.4	3777.3
75°	311.2	331.8	401.7	547.1	885.7	1397.1	4140.7	4672.6	4460.1	2932.7	1390.3
77.5°	230.3	237.2	272.8	348.3	474.4	544.3	1786.5	2125.2	1990.8	1061.2	460.7
80°	168.6	174.1	202.9	246.8	298.9	277.0	673.2	771.9	692.4	360.6	141.2
82.5°	102.8	104.2	148.1	183.7	187.8	154.9	222.1	238.6	249.5	202.9	76.8
85°	37.0	46.6	100.1	133.0	111.1	78.2	93.2	102.8	112.4	128.9	45.2
87.5°	4.1	5.5	48.0	64.4	31.5	28.8	34.3	38.4	41.1	48.0	21.9
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: P455228
 CATALOG NUMBER: GALN-SA6B-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8	2038.8
2.5°	2051.1	2056.6	2052.5	2045.6	2044.3	2040.2	2031.9	2031.9	2031.9	2034.7	2031.9
5°	2081.3	2085.4	2075.8	2062.1	2047.0	2027.8	2007.3	1994.9	1993.5	1990.8	1983.9
7.5°	2138.9	2144.4	2122.4	2089.5	2048.4	2001.8	1957.9	1916.8	1897.6	1882.5	1882.5
10°	2222.5	2228.0	2184.1	2125.2	2042.9	1948.3	1844.1	1749.5	1675.5	1641.2	1633.0
12.5°	2322.6	2325.3	2252.7	2149.8	2014.1	1831.8	1609.6	1402.6	1258.6	1192.8	1186.0
15°	2432.3	2413.1	2317.1	2159.4	1931.8	1591.8	1207.9	954.3	804.8	760.9	777.4
17.5°	2543.3	2507.7	2366.5	2144.4	1746.8	1207.9	811.7	651.3	604.6	592.3	592.3
20°	2647.6	2598.2	2402.1	2078.6	1425.9	832.2	601.9	563.5	555.3	547.1	548.4
22.5°	2751.8	2676.3	2433.7	1931.8	1062.6	595.0	538.8	526.5	515.5	504.6	503.2
25°	2853.2	2749.0	2446.0	1660.4	723.9	511.4	492.2	475.8	453.8	441.5	438.7
27.5°	2958.8	2836.8	2437.8	1317.6	527.9	457.9	438.7	415.4	389.4	367.4	367.4
30°	3161.7	3004.0	2409.0	947.4	444.2	403.1	378.4	341.4	312.6	290.7	289.3
32.5°	3438.7	3222.0	2310.3	666.3	394.9	355.1	318.1	277.0	246.8	230.3	230.3
35°	3685.5	3441.4	2125.2	490.8	355.1	308.5	263.2	223.5	200.2	189.2	185.1
37.5°	4061.1	3762.2	1870.1	399.0	316.7	267.4	220.7	183.7	164.5	156.3	156.3
40°	4624.6	4154.4	1557.5	349.6	279.7	227.6	183.7	154.9	139.8	130.3	130.3
42.5°	5323.9	4634.2	1240.8	314.0	245.4	196.1	153.6	131.6	117.9	111.1	109.7
45°	6204.1	5140.2	955.6	281.1	218.0	167.3	130.3	111.1	97.3	93.2	94.6
47.5°	7122.7	5585.8	740.4	252.3	189.2	141.2	111.1	96.0	86.4	80.9	80.9
50°	7907.0	5892.9	562.1	219.4	167.3	119.3	97.3	86.4	78.2	75.4	74.0
52.5°	8562.4	5982.0	430.5	190.6	146.7	102.8	86.4	78.2	71.3	67.2	67.2
55°	9120.4	5903.9	337.3	160.4	123.4	89.1	76.8	69.9	61.7	57.6	56.2
57.5°	9446.7	5653.0	257.8	133.0	100.1	74.0	67.2	59.0	49.4	42.5	42.5
60°	9611.3	5288.2	197.4	109.7	76.8	59.0	54.8	43.9	34.3	28.8	27.4
62.5°	9413.8	4804.3	149.4	86.4	57.6	43.9	37.0	31.5	21.9	16.5	16.5
63°	9291.8	4664.4	144.0	82.3	53.5	41.1	34.3	28.8	19.2	15.1	13.7
65°	8470.5	4054.3	117.9	65.8	42.5	28.8	23.3	20.6	13.7	6.9	5.5
67.5°	6726.5	3101.4	93.2	49.4	30.2	20.6	13.7	12.3	4.1	0.0	0.0
70°	4547.9	2003.1	72.7	35.6	20.6	12.3	6.9	5.5	1.4	0.0	0.0
72.5°	2372.0	1026.9	56.2	26.1	12.3	8.2	4.1	1.4	0.0	0.0	0.0
75°	839.1	349.6	41.1	16.5	8.2	4.1	1.4	0.0	0.0	0.0	0.0
77.5°	253.6	130.3	26.1	12.3	5.5	2.7	0.0	0.0	0.0	0.0	0.0
80°	89.1	48.0	15.1	8.2	4.1	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	43.9	23.3	9.6	6.9	4.1	1.4	0.0	0.0	0.0	0.0	0.0
85°	24.7	15.1	8.2	6.9	4.1	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	17.8	11.0	8.2	6.9	5.5	2.7	1.4	0.0	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)