

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: P454532

Luminaire Tested: **GALN-SA5C-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454532
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-SA5C-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 19002 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

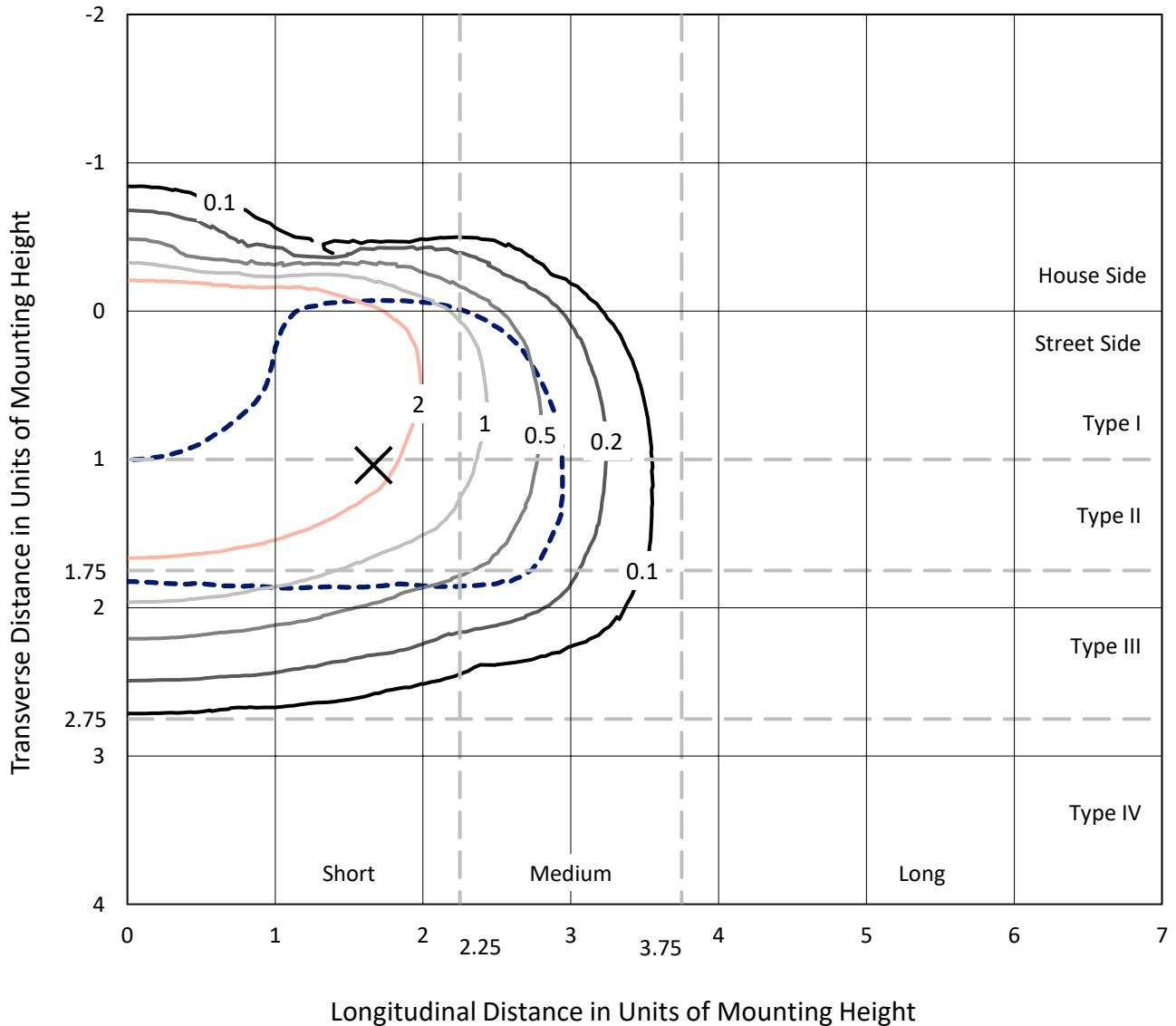
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

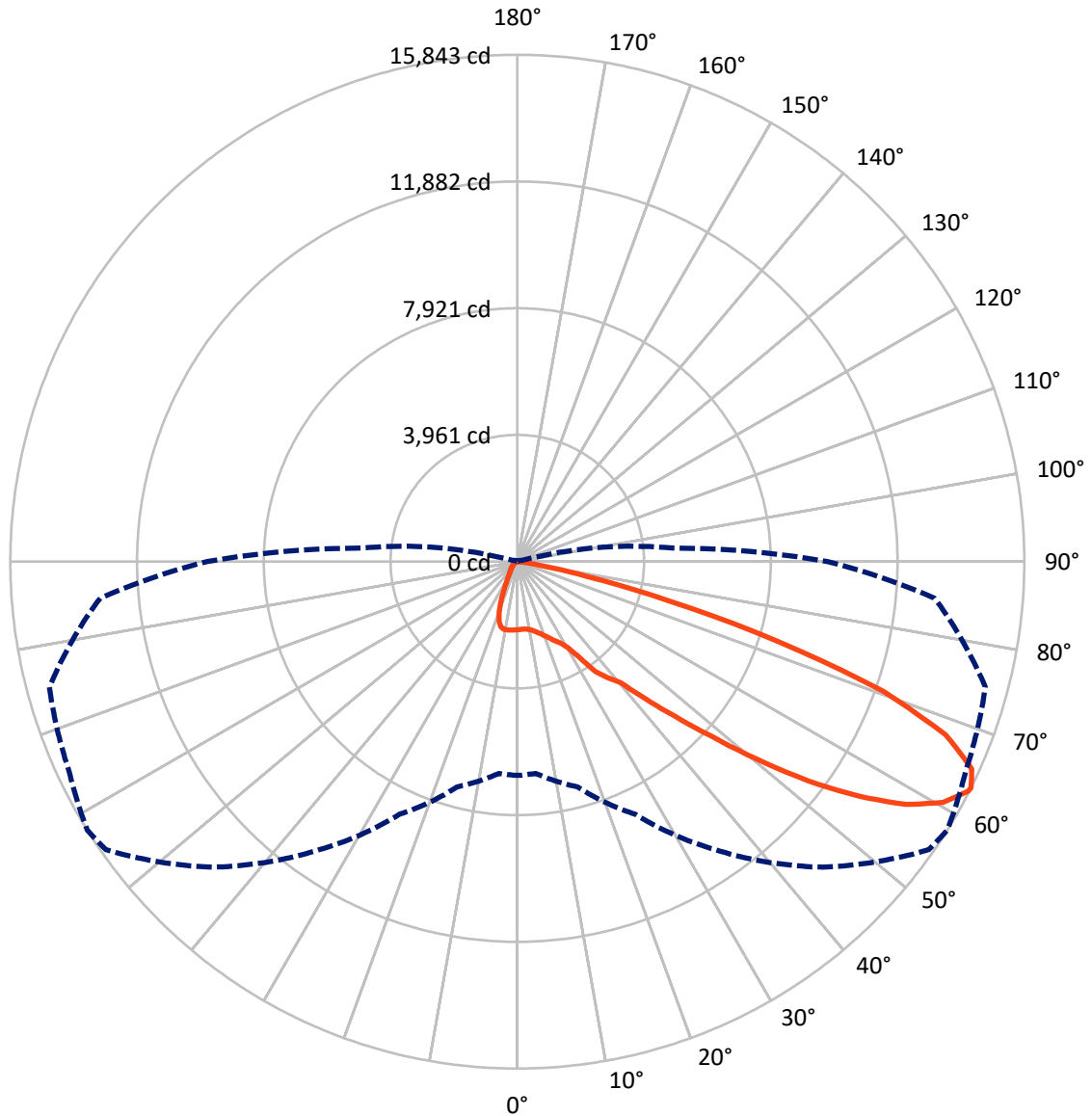
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1967.5	0.0	1967.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17034.5	0.0	17034.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	19002.0	0.0	19002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.0
10°-20°	542.4	2.9
20°-30°	941.4	5.0
30°-40°	1729.9	9.1
40°-50°	3256.5	17.1
50°-60°	5569.9	29.3
60°-70°	5333.2	28.1
70°-80°	1360.0	7.2
80°-90°	69.5	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°	19002.0	100.0
0°-180°	19002.0	100.0

Coefficient of Utilization



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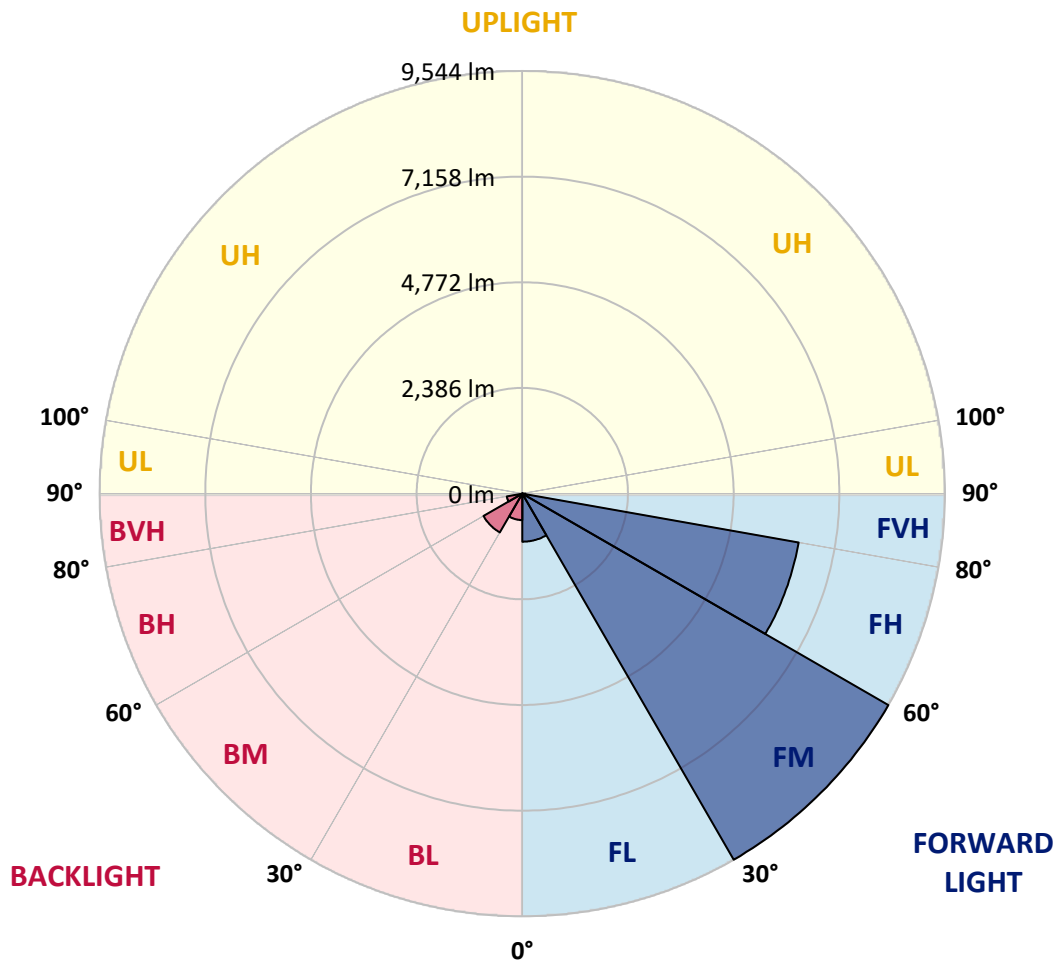
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.2	5.7			
FM (30°-60°)	9544.3	50.2			
FH (60°-80°)	6337.1	33.3			G3/7500
FVH (80°-90°)	66.8	0.4			G1/100
BL (0°-30°)	596.7	3.1	B2/1000		
BM (30°-60°)	1012.0	5.3	B2/2500		
BH (60°-80°)	356.2	1.9	B1/500		G1/500
BVH (80°-90°)	2.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3
2.5°	2074.4	2081.6	2088.7	2091.6	2101.6	2111.6	2118.8	2117.3	2128.8	2134.5	2134.5
5°	1991.4	1991.4	2010.0	2027.2	2055.8	2084.4	2111.6	2117.3	2138.8	2158.8	2166.0
7.5°	1921.3	1925.6	1939.9	1971.4	2010.0	2060.1	2114.5	2127.3	2164.5	2208.9	2227.5
10°	1888.4	1891.3	1909.9	1942.8	1991.4	2060.1	2135.9	2160.3	2217.5	2287.6	2313.3
12.5°	1881.3	1885.6	1904.2	1941.4	1997.2	2080.1	2183.1	2208.9	2291.9	2382.0	2420.6
15°	1894.2	1897.0	1915.6	1955.7	2017.2	2115.9	2246.1	2281.9	2380.6	2485.0	2535.1
17.5°	1939.9	1937.1	1949.9	1982.9	2051.5	2160.3	2321.9	2364.8	2480.7	2623.8	2656.7
20°	2134.5	2115.9	2104.5	2075.8	2103.0	2223.2	2413.5	2476.4	2619.5	2765.4	2788.3
22.5°	2553.7	2512.2	2430.6	2319.1	2233.2	2309.0	2523.6	2596.6	2781.1	2924.2	2924.2
25°	3087.3	3034.4	2952.8	2709.6	2499.3	2450.7	2648.1	2739.7	2957.1	3101.6	3054.4
27.5°	3755.4	3713.9	3555.1	3271.9	2950.0	2698.2	2792.6	2877.0	3113.1	3287.6	3188.9
30°	4299.0	4279.0	4148.8	3895.6	3540.8	3173.1	3061.5	3117.3	3320.5	3522.2	3420.6
32.5°	4758.3	4758.3	4625.2	4389.2	4057.3	3731.1	3517.9	3558.0	3752.5	3985.7	3796.9
35°	5263.3	5246.1	5138.8	4914.2	4542.3	4254.7	4167.4	4221.8	4397.8	4570.9	4105.9
37.5°	5794.1	5788.3	5676.7	5459.3	5156.0	4794.0	4589.5	4603.8	4693.9	4799.8	4467.9
40°	6370.6	6379.2	6233.3	6098.8	5812.7	5442.1	5050.1	4960.0	5044.4	5343.4	5136.0
42.5°	7051.6	7031.5	6968.6	6785.5	6555.1	6333.4	5862.7	5829.8	5904.2	6224.7	6000.1
45°	7842.7	7871.3	7762.6	7661.0	7506.5	7322.0	6928.5	6871.3	6952.9	7450.7	7131.7
47.5°	8635.3	8608.1	8678.2	8659.6	8742.6	8605.2	8257.6	8140.3	8336.3	8808.4	8339.1
50°	9239.0	9269.1	9415.0	9628.1	9984.4	10061.6	9728.3	9688.2	9775.5	10078.8	9419.3
52.5°	9631.0	9731.1	9960.0	10508.0	11150.3	11649.6	11396.4	11374.9	11339.2	11420.7	10452.2
55°	9887.1	9988.7	10287.7	11094.5	12200.4	13011.6	13024.5	12932.9	12696.8	12638.2	11417.9
57.5°	9729.7	9749.7	10176.1	11254.8	12782.7	13983.0	14403.6	14312.0	13875.7	13653.9	12270.5
60°	8745.4	8786.9	9380.6	10648.2	12529.5	14300.6	15317.8	15276.3	14798.4	14548.1	12934.3
62.5°	7001.5	7121.7	7732.6	9146.0	11352.1	13765.5	15688.3	15805.6	15433.6	15088.9	13143.2
63°	6681.0	6642.4	7287.6	8708.2	11040.2	13500.9	15694.0	15842.8	15462.3	15140.4	13086.0
65°	4945.7	5061.6	5480.7	6867.0	9187.5	12269.1	15340.6	15603.9	15356.4	14912.9	12452.2
67.5°	2776.9	2771.1	3234.7	4493.6	6430.7	9623.9	13871.4	14427.9	14376.4	13382.1	10322.0
70°	1359.1	1380.6	1570.8	2329.1	3729.7	6639.6	11526.6	12127.5	12146.1	10510.8	7137.4
72.5°	615.2	625.2	761.1	1134.5	1917.0	3535.1	7942.9	8516.5	8410.7	6698.2	3941.4
75°	324.8	346.2	419.2	570.8	924.2	1457.8	4320.5	4875.6	4653.8	3060.1	1450.7
77.5°	240.3	247.5	284.7	363.4	495.0	568.0	1864.1	2217.5	2077.3	1107.3	480.7
80°	176.0	181.7	211.7	257.5	311.9	289.0	702.4	805.4	722.5	376.3	147.4
82.5°	107.3	108.7	154.5	191.7	196.0	161.7	231.8	248.9	260.4	211.7	80.1
85°	38.6	48.6	104.4	138.8	115.9	81.5	97.3	107.3	117.3	134.5	47.2
87.5°	4.3	5.7	50.1	67.2	32.9	30.0	35.8	40.1	42.9	50.1	22.9
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°	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3	2127.3
2.5°	2140.2	2145.9	2141.7	2134.5	2133.1	2128.8	2120.2	2120.2	2120.2	2123.1	2120.2
5°	2171.7	2176.0	2166.0	2151.7	2135.9	2115.9	2094.4	2081.6	2080.1	2077.3	2070.1
7.5°	2231.8	2237.5	2214.6	2180.3	2137.4	2088.7	2042.9	2000.0	1980.0	1964.3	1964.3
10°	2319.1	2324.8	2279.0	2217.5	2131.6	2032.9	1924.2	1825.5	1748.2	1712.5	1703.9
12.5°	2423.5	2426.3	2350.5	2243.2	2101.6	1911.3	1679.6	1463.5	1313.3	1244.6	1237.5
15°	2537.9	2517.9	2417.8	2253.2	2015.8	1661.0	1260.4	995.7	839.8	794.0	811.2
17.5°	2653.8	2616.6	2469.3	2237.5	1822.6	1260.4	846.9	679.5	630.9	618.0	618.0
20°	2762.5	2711.0	2506.5	2168.8	1487.9	868.4	628.0	588.0	579.4	570.8	572.3
22.5°	2871.3	2792.6	2539.4	2015.8	1108.7	620.9	562.2	549.4	537.9	526.5	525.0
25°	2977.1	2868.4	2552.2	1732.5	755.4	533.6	513.6	496.4	473.5	460.7	457.8
27.5°	3087.3	2960.0	2543.7	1374.8	550.8	477.8	457.8	433.5	406.3	383.4	383.4
30°	3299.0	3134.5	2513.6	988.6	463.5	420.6	394.9	356.2	326.2	303.3	301.9
32.5°	3588.0	3362.0	2410.6	695.3	412.0	370.5	331.9	289.0	257.5	240.3	240.3
35°	3845.5	3590.9	2217.5	512.2	370.5	321.9	274.7	233.2	208.9	197.4	193.1
37.5°	4237.5	3925.6	1951.4	416.3	330.5	279.0	230.3	191.7	171.7	163.1	163.1
40°	4825.5	4334.8	1625.2	364.8	291.8	237.5	191.7	161.7	145.9	135.9	135.9
42.5°	5555.1	4835.5	1294.7	327.6	256.1	204.6	160.2	137.3	123.0	115.9	114.5
45°	6473.6	5363.4	997.1	293.3	227.5	174.5	135.9	115.9	101.6	97.3	98.7
47.5°	7432.1	5828.4	772.5	263.2	197.4	147.4	115.9	100.1	90.1	84.4	84.4
50°	8250.4	6148.8	586.6	228.9	174.5	124.5	101.6	90.1	81.5	78.7	77.3
52.5°	8934.3	6241.8	449.2	198.9	153.1	107.3	90.1	81.5	74.4	70.1	70.1
55°	9516.6	6160.3	351.9	167.4	128.8	93.0	80.1	73.0	64.4	60.1	58.7
57.5°	9857.0	5898.5	269.0	138.8	104.4	77.3	70.1	61.5	51.5	44.3	44.3
60°	10028.7	5517.9	206.0	114.5	80.1	61.5	57.2	45.8	35.8	30.0	28.6
62.5°	9822.7	5012.9	155.9	90.1	60.1	45.8	38.6	32.9	22.9	17.2	17.2
63°	9695.4	4867.0	150.2	85.8	55.8	42.9	35.8	30.0	20.0	15.7	14.3
65°	8838.4	4230.4	123.0	68.7	44.3	30.0	24.3	21.5	14.3	7.2	5.7
67.5°	7018.7	3236.1	97.3	51.5	31.5	21.5	14.3	12.9	4.3	0.0	0.0
70°	4745.4	2090.2	75.8	37.2	21.5	12.9	7.2	5.7	1.4	0.0	0.0
72.5°	2475.0	1071.5	58.7	27.2	12.9	8.6	4.3	1.4	0.0	0.0	0.0
75°	875.5	364.8	42.9	17.2	8.6	4.3	1.4	0.0	0.0	0.0	0.0
77.5°	264.7	135.9	27.2	12.9	5.7	2.9	0.0	0.0	0.0	0.0	0.0
80°	93.0	50.1	15.7	8.6	4.3	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	45.8	24.3	10.0	7.2	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	25.8	15.7	8.6	7.2	4.3	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	11.4	8.6	7.2	5.7	2.9	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)