

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: P459027

Luminaire Tested: **GALN-SA5B-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459027
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-SA5B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 19489 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

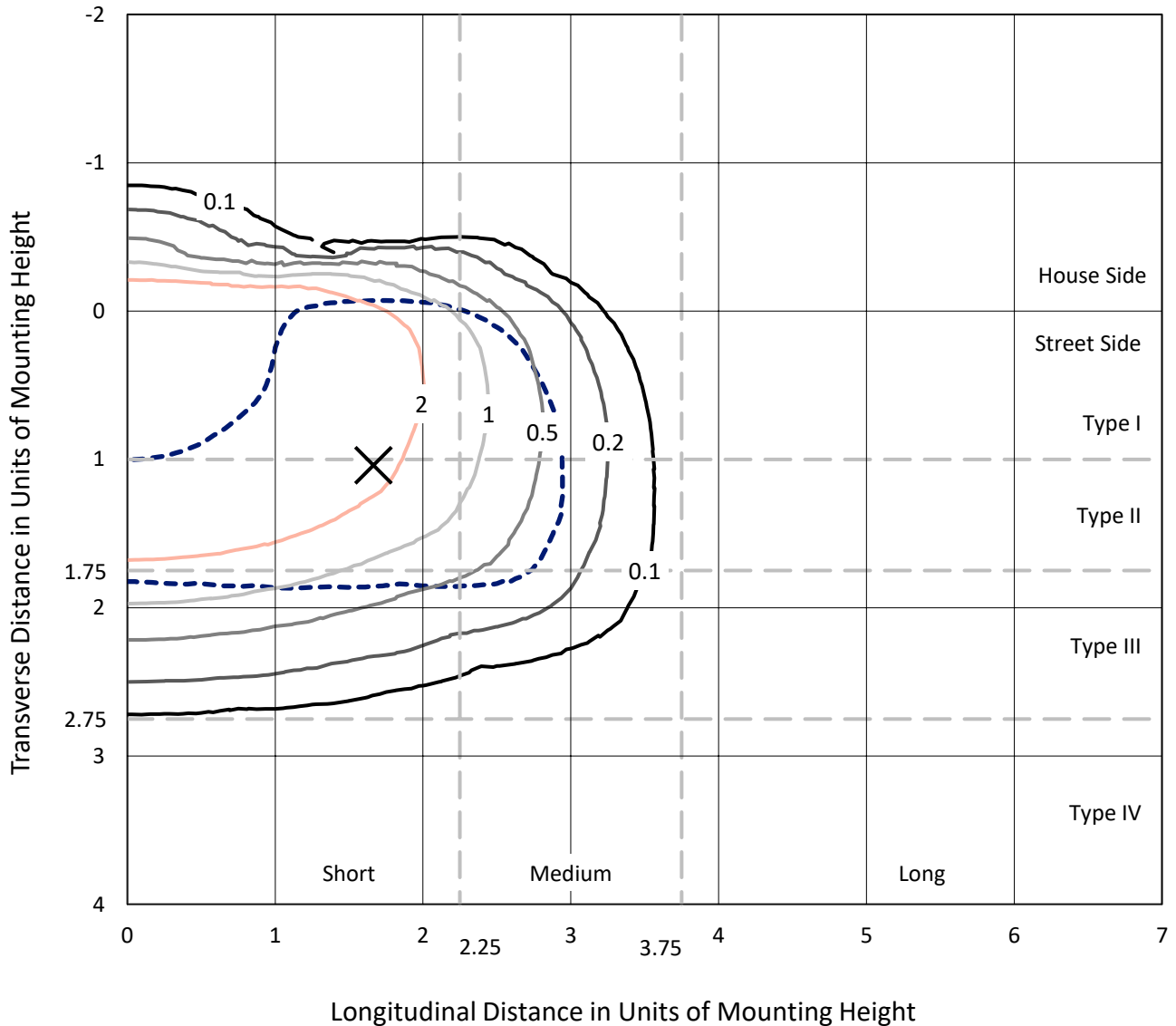
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

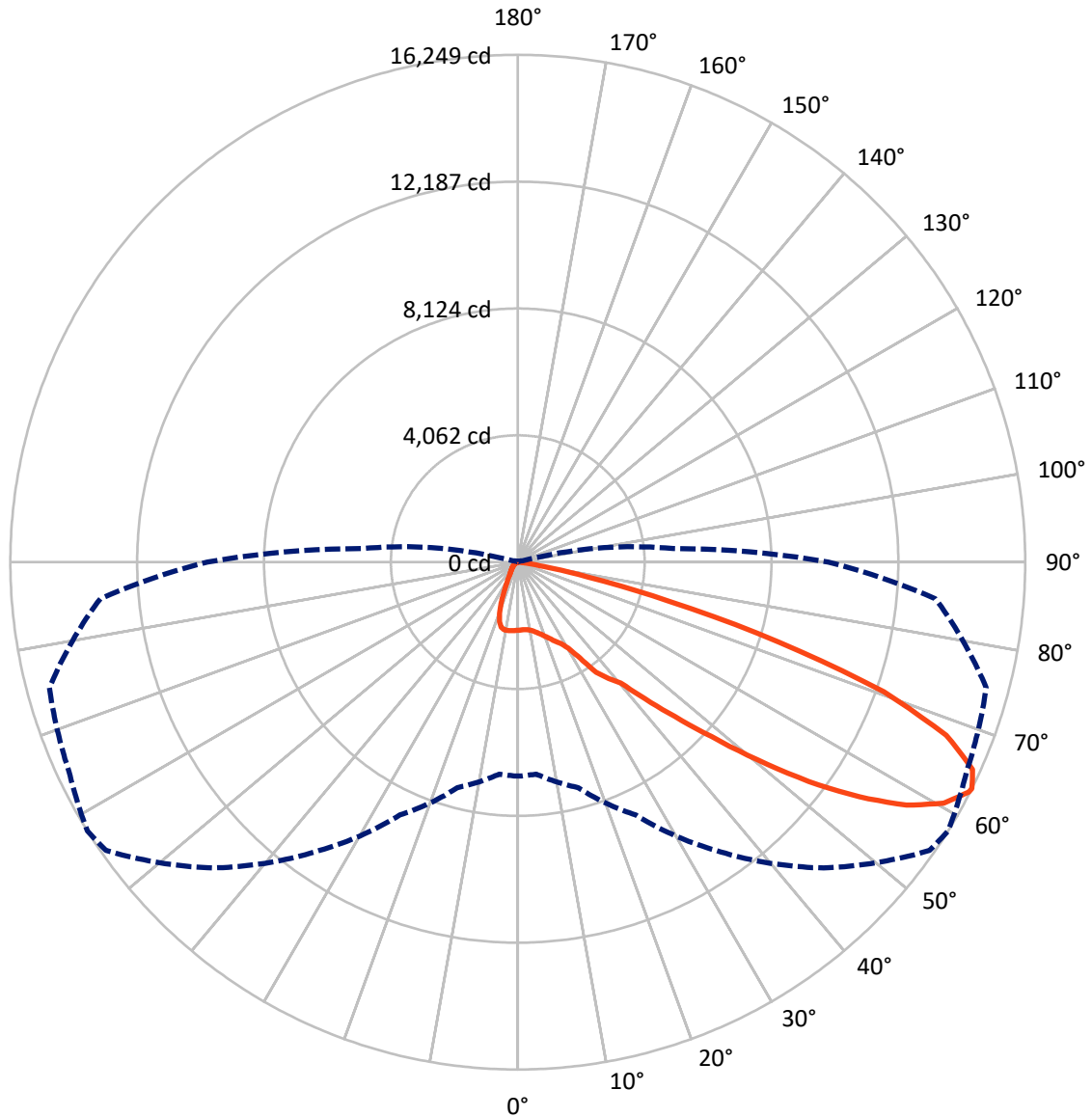
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	2018.0	0.0	2018.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	17471.0	0.0	17471.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	19489.0	0.0	19489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	1.0
10°-20°	556.3	2.9
20°-30°	965.5	5.0
30°-40°	1774.2	9.1
40°-50°	3339.9	17.1
50°-60°	5712.7	29.3
60°-70°	5469.9	28.1
70°-80°	1394.8	7.2
80°-90°	71.3	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°	19489.0	100.0
0°-180°	19489.0	100.0

Coefficient of Utilization



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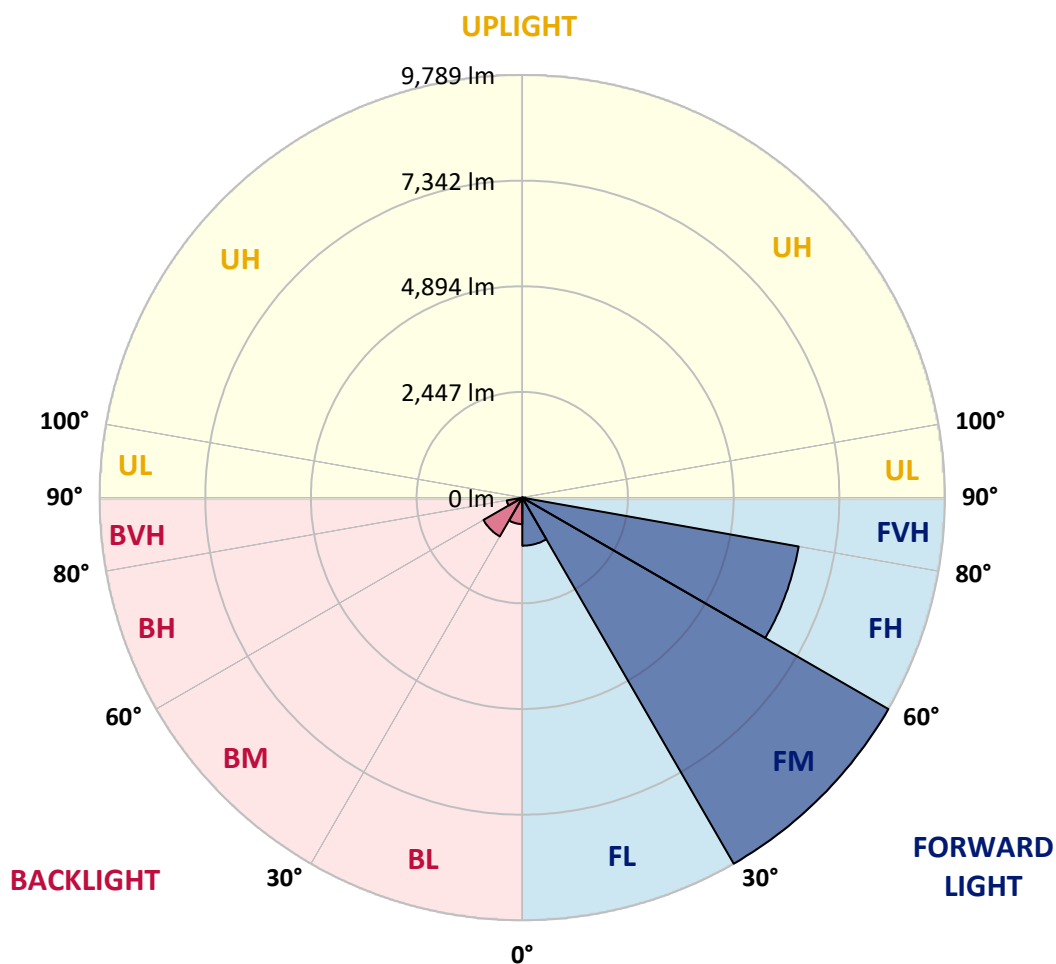
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1114.1	5.7			
FM (30°-60°)	9788.9	50.2			
FH (60°-80°)	6499.5	33.3			G3/7500
FVH (80°-90°)	68.6	0.4			G1/100
BL (0°-30°)	612.0	3.1	B2/1000		
BM (30°-60°)	1037.9	5.3	B2/2500		
BH (60°-80°)	365.3	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9
2.5°	2127.6	2134.9	2142.3	2145.2	2155.5	2165.7	2173.1	2171.6	2183.3	2189.2	2189.2
5°	2042.5	2042.5	2061.6	2079.2	2108.5	2137.9	2165.7	2171.6	2193.6	2214.1	2221.5
7.5°	1970.6	1975.0	1989.7	2021.9	2061.6	2112.9	2168.7	2181.9	2220.0	2265.5	2284.6
10°	1936.8	1939.8	1958.8	1992.6	2042.5	2112.9	2190.7	2215.6	2274.3	2346.2	2372.6
12.5°	1929.5	1933.9	1953.0	1991.1	2048.3	2133.4	2239.1	2265.5	2350.6	2443.0	2482.7
15°	1942.7	1945.6	1964.7	2005.8	2068.9	2170.1	2303.7	2340.3	2441.6	2548.7	2600.0
17.5°	1989.7	1986.7	1999.9	2033.7	2104.1	2215.6	2381.4	2425.4	2544.3	2691.0	2724.8
20°	2189.2	2170.1	2158.4	2129.0	2156.9	2280.2	2475.3	2539.9	2686.6	2836.3	2859.8
22.5°	2619.1	2576.6	2492.9	2378.5	2290.4	2368.2	2588.3	2663.1	2852.4	2999.2	2999.2
25°	3166.4	3112.1	3028.5	2779.1	2563.4	2513.5	2716.0	2809.9	3032.9	3181.1	3132.7
27.5°	3851.7	3809.1	3646.2	3355.7	3025.6	2767.3	2864.2	2950.7	3192.8	3371.8	3270.6
30°	4409.2	4388.7	4255.2	3995.4	3631.6	3254.5	3140.0	3197.2	3405.6	3612.5	3508.3
32.5°	4880.2	4880.2	4743.8	4501.7	4161.3	3826.7	3608.1	3649.2	3848.7	4087.9	3894.2
35°	5398.2	5380.6	5270.5	5040.2	4658.7	4363.7	4274.2	4330.0	4510.5	4688.0	4211.1
37.5°	5942.5	5936.7	5822.2	5599.2	5288.1	4916.9	4707.1	4721.8	4814.2	4922.8	4582.4
40°	6533.9	6542.7	6393.0	6255.1	5961.6	5581.6	5179.6	5087.1	5173.7	5480.4	5267.6
42.5°	7232.3	7211.8	7147.2	6959.4	6723.1	6495.7	6013.0	5979.2	6055.5	6384.2	6153.8
45°	8043.7	8073.1	7961.5	7857.4	7698.9	7509.6	7106.1	7047.4	7131.1	7641.7	7314.5
47.5°	8856.6	8828.7	8900.6	8881.5	8966.6	8825.8	8469.2	8348.9	8549.9	9034.1	8552.9
50°	9475.8	9506.6	9656.3	9874.9	10240.3	10319.5	9977.6	9936.5	10026.0	10337.1	9660.7
52.5°	9877.8	9980.5	10215.3	10777.3	11436.1	11948.2	11688.5	11666.5	11629.8	11713.4	10720.1
55°	10140.5	10244.7	10551.3	11378.9	12513.1	13345.1	13358.3	13264.4	13022.3	12962.1	11710.5
57.5°	9979.1	9999.6	10436.9	11543.2	13110.3	14341.3	14772.7	14678.8	14231.3	14003.9	12585.0
60°	8969.6	9012.1	9621.1	10921.1	12850.6	14667.1	15710.3	15667.8	15177.7	14920.9	13265.8
62.5°	7180.9	7304.2	7930.7	9380.4	11643.0	14118.3	16090.4	16210.7	15829.2	15475.6	13480.0
63°	6852.3	6812.7	7474.4	8931.4	11323.1	13846.9	16096.2	16248.8	15858.5	15528.4	13421.4
65°	5072.4	5191.3	5621.2	7043.0	9423.0	12583.5	15733.8	16003.8	15750.0	15295.1	12771.3
67.5°	2848.0	2842.2	3317.6	4608.8	6595.5	9870.5	14226.9	14797.7	14744.9	13725.1	10586.5
70°	1393.9	1415.9	1611.1	2388.8	3825.2	6809.7	11822.0	12438.3	12457.3	10780.2	7320.3
72.5°	630.9	641.2	780.6	1163.6	1966.2	3625.7	8146.4	8734.8	8626.2	6869.9	4042.4
75°	333.1	355.1	429.9	585.5	947.9	1495.2	4431.2	5000.5	4773.1	3138.5	1487.8
77.5°	246.5	253.8	292.0	372.7	507.7	582.5	1911.9	2274.3	2130.5	1135.7	493.0
80°	180.5	186.3	217.2	264.1	319.9	296.4	720.4	826.1	741.0	385.9	151.1
82.5°	110.0	111.5	158.5	196.6	201.0	165.8	237.7	255.3	267.0	217.2	82.2
85°	39.6	49.9	107.1	142.3	118.9	83.6	99.8	110.0	120.3	137.9	48.4
87.5°	4.4	5.9	51.4	69.0	33.7	30.8	36.7	41.1	44.0	51.4	23.5
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°	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9	2181.9
2.5°	2195.1	2200.9	2196.5	2189.2	2187.7	2183.3	2174.5	2174.5	2174.5	2177.5	2174.5
5°	2227.4	2231.8	2221.5	2206.8	2190.7	2170.1	2148.1	2134.9	2133.4	2130.5	2123.2
7.5°	2289.0	2294.9	2271.4	2236.2	2192.1	2142.3	2095.3	2051.3	2030.7	2014.6	2014.6
10°	2378.5	2384.4	2337.4	2274.3	2186.3	2085.0	1973.5	1872.3	1793.0	1756.4	1747.5
12.5°	2485.6	2488.5	2410.8	2300.7	2155.5	1960.3	1722.6	1501.0	1347.0	1276.5	1269.2
15°	2603.0	2582.4	2479.7	2311.0	2067.4	1703.5	1292.7	1021.2	861.3	814.3	832.0
17.5°	2721.8	2683.7	2532.6	2294.9	1869.3	1292.7	868.6	697.0	647.1	633.9	633.9
20°	2833.3	2780.5	2570.7	2224.4	1526.0	890.6	644.1	603.1	594.3	585.5	586.9
22.5°	2944.9	2864.2	2604.5	2067.4	1137.2	636.8	576.6	563.4	551.7	540.0	538.5
25°	3053.4	2941.9	2617.7	1776.9	774.7	547.3	526.8	509.2	485.7	472.5	469.5
27.5°	3166.4	3035.8	2608.9	1410.1	564.9	490.1	469.5	444.6	416.7	393.2	393.2
30°	3383.6	3214.8	2578.0	1013.9	475.4	431.4	405.0	365.4	334.5	311.1	309.6
32.5°	3680.0	3448.1	2472.4	713.1	422.6	380.0	340.4	296.4	264.1	246.5	246.5
35°	3944.1	3682.9	2274.3	525.3	380.0	330.1	281.7	239.2	214.2	202.5	198.1
37.5°	4346.1	4026.3	2001.4	427.0	338.9	286.1	236.2	196.6	176.1	167.3	167.3
40°	4949.2	4445.9	1666.8	374.2	299.3	243.6	196.6	165.8	149.7	139.4	139.4
42.5°	5697.5	4959.5	1327.9	336.0	262.6	209.8	164.3	140.9	126.2	118.9	117.4
45°	6639.5	5500.9	1022.7	300.8	233.3	179.0	139.4	118.9	104.2	99.8	101.2
47.5°	7622.6	5977.8	792.3	270.0	202.5	151.1	118.9	102.7	92.4	86.6	86.6
50°	8461.9	6306.4	601.6	234.8	179.0	127.7	104.2	92.4	83.6	80.7	79.2
52.5°	9163.3	6401.8	460.7	204.0	157.0	110.0	92.4	83.6	76.3	71.9	71.9
55°	9760.5	6318.2	361.0	171.7	132.1	95.4	82.2	74.8	66.0	61.6	60.2
57.5°	10109.7	6049.7	275.9	142.3	107.1	79.2	71.9	63.1	52.8	45.5	45.5
60°	10285.7	5659.4	211.3	117.4	82.2	63.1	58.7	47.0	36.7	30.8	29.3
62.5°	10074.5	5141.4	159.9	92.4	61.6	47.0	39.6	33.7	23.5	17.6	17.6
63°	9943.9	4991.7	154.1	88.0	57.2	44.0	36.7	30.8	20.5	16.1	14.7
65°	9065.0	4338.8	126.2	70.4	45.5	30.8	24.9	22.0	14.7	7.3	5.9
67.5°	7198.6	3319.0	99.8	52.8	32.3	22.0	14.7	13.2	4.4	0.0	0.0
70°	4867.0	2143.7	77.8	38.1	22.0	13.2	7.3	5.9	1.5	0.0	0.0
72.5°	2538.4	1099.0	60.2	27.9	13.2	8.8	4.4	1.5	0.0	0.0	0.0
75°	898.0	374.2	44.0	17.6	8.8	4.4	1.5	0.0	0.0	0.0	0.0
77.5°	271.4	139.4	27.9	13.2	5.9	2.9	0.0	0.0	0.0	0.0	0.0
80°	95.4	51.4	16.1	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	47.0	24.9	10.3	7.3	4.4	1.5	0.0	0.0	0.0	0.0	0.0
85°	26.4	16.1	8.8	7.3	4.4	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	11.7	8.8	7.3	5.9	2.9	1.5	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)