

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: P454561

Luminaire Tested: **GALN-SA5C-830-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454561
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-830-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 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: 20541 lumens
Efficiency: N/A
Efficacy: 76.4 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 (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

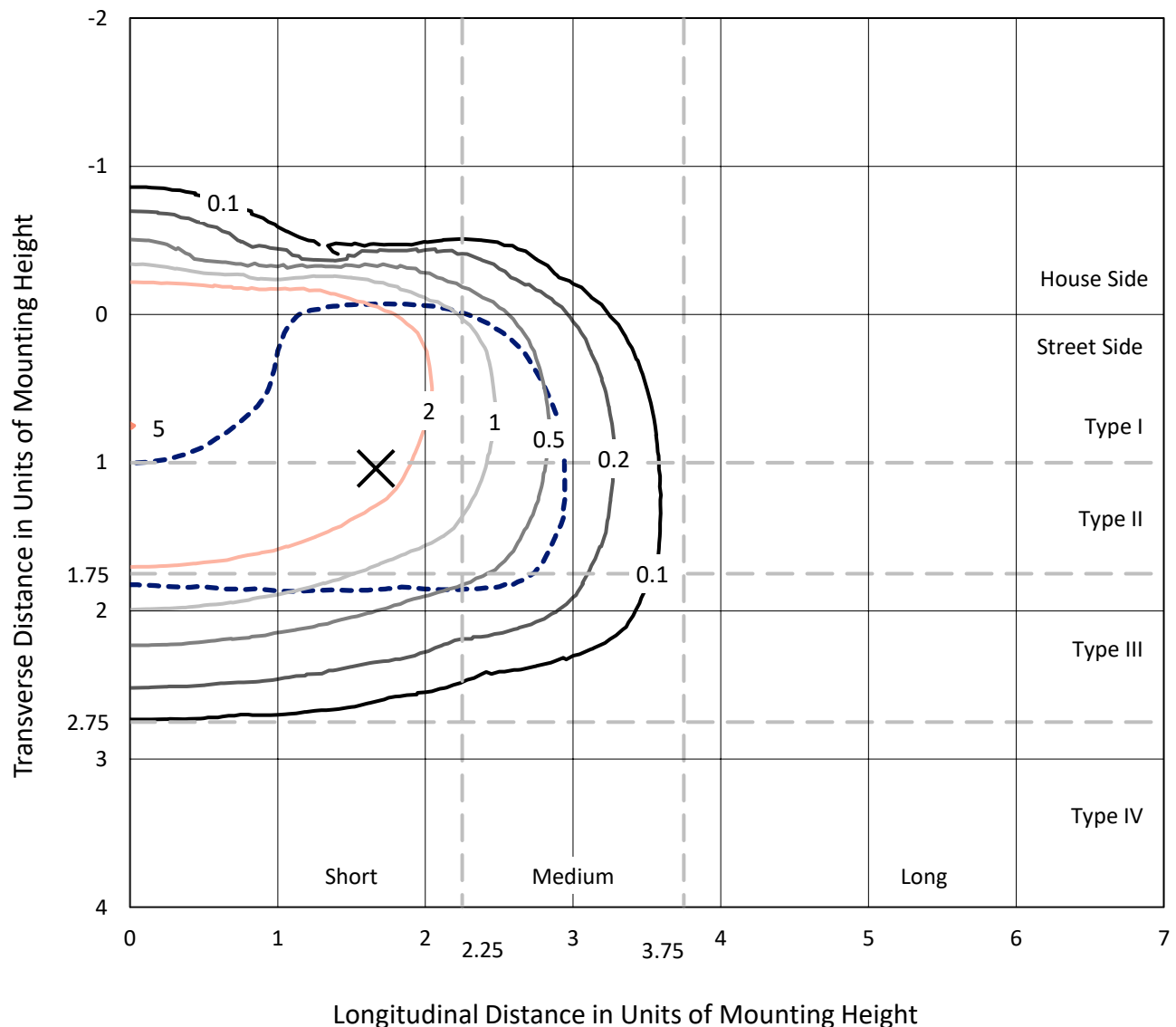


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

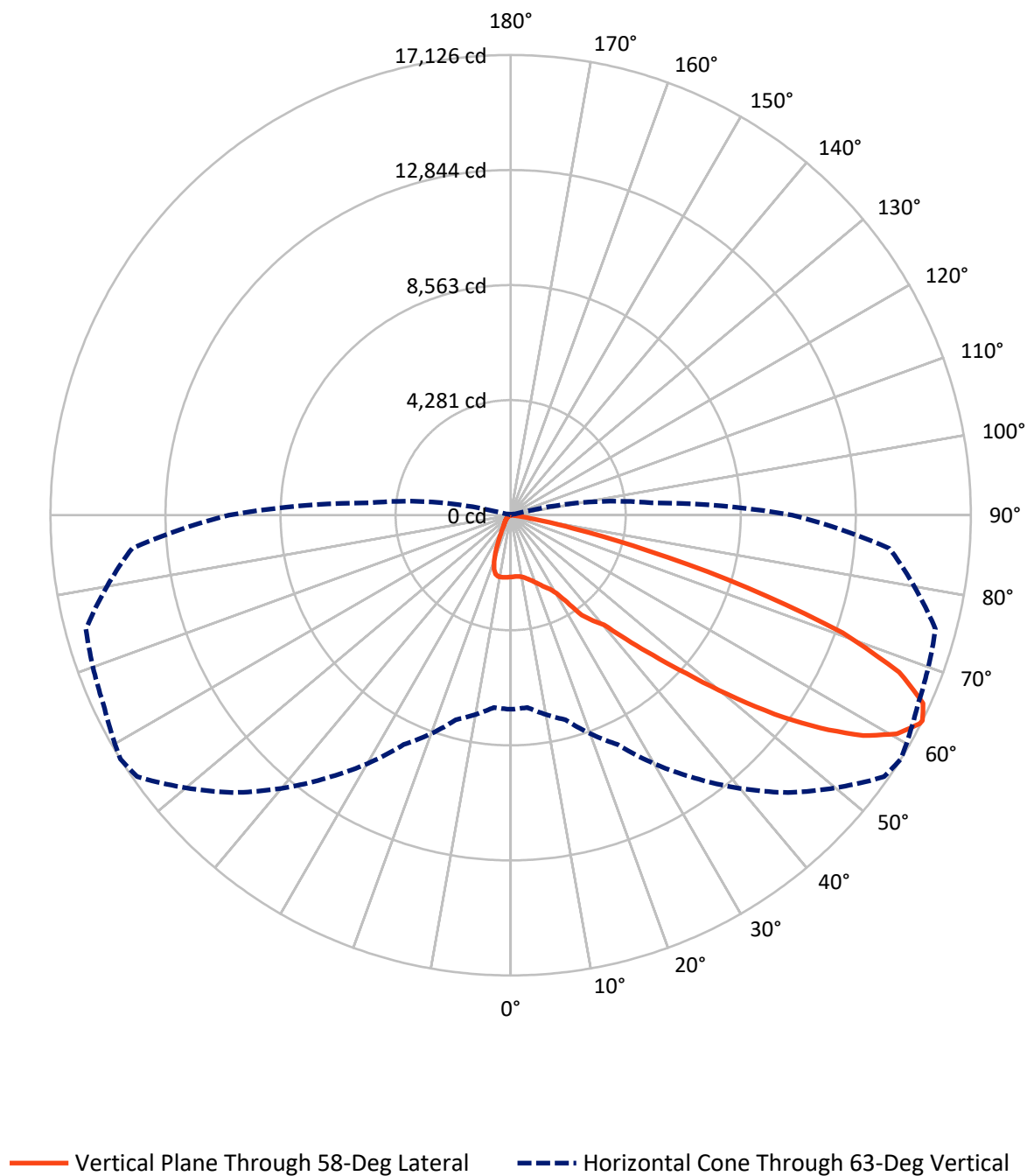


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.9	0.0	2126.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	18414.1	0.0	18414.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	20541.0	0.0	20541.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.3	1.0
10°-20°	586.3	2.9
20°-30°	1017.6	5.0
30°-40°	1870.0	9.1
40°-50°	3520.2	17.1
50°-60°	6021.1	29.3
60°-70°	5765.2	28.1
70°-80°	1470.1	7.2
80°-90°	75.2	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°	20541.0	100.0
0°-180°	20541.0	100.0

Coefficient of Utilization



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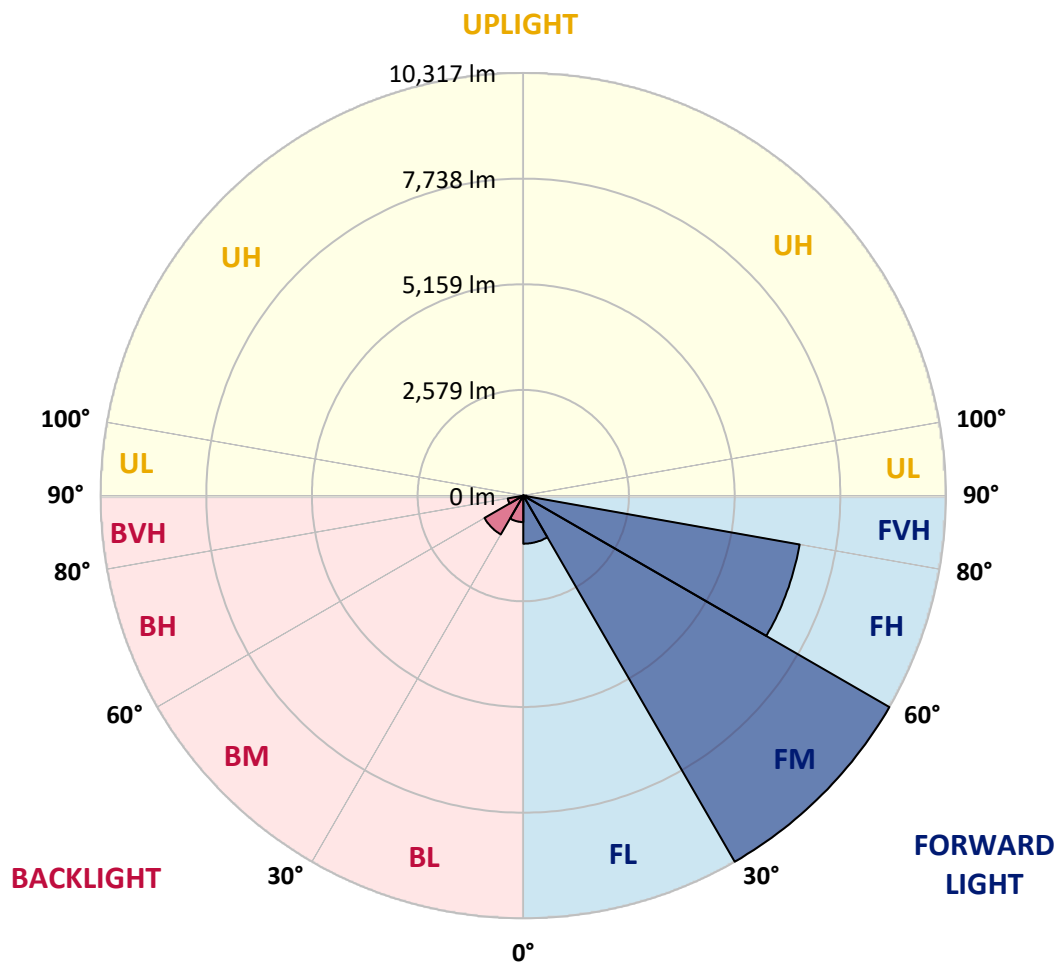
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1174.2	5.7			
FM	(30°-60°)	10317.3	50.2			
FH	(60°-80°)	6850.3	33.3			G3/7500
FVH	(80°-90°)	72.3	0.4			G1/100
BL	(0°-30°)	645.0	3.1	B2/1000		
BM	(30°-60°)	1094.0	5.3	B2/2500		
BH	(60°-80°)	385.0	1.9	B1/500		G1/500
BVH	(80°-90°)	2.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6
2.5°	2242.4	2250.2	2257.9	2261.0	2271.8	2282.6	2290.4	2288.8	2301.2	2307.4	2307.4
5°	2152.7	2152.7	2172.8	2191.4	2222.3	2253.2	2282.6	2288.8	2312.0	2333.7	2341.4
7.5°	2076.9	2081.6	2097.1	2131.1	2172.8	2227.0	2285.7	2299.6	2339.9	2387.8	2407.9
10°	2041.4	2044.5	2064.6	2100.1	2152.7	2227.0	2308.9	2335.2	2397.1	2472.9	2500.7
12.5°	2033.6	2038.3	2058.4	2098.6	2158.9	2248.6	2360.0	2387.8	2477.5	2574.9	2616.7
15°	2047.6	2050.7	2070.8	2114.1	2180.6	2287.3	2428.0	2466.7	2573.4	2686.3	2740.4
17.5°	2097.1	2094.0	2107.9	2143.4	2217.7	2335.2	2510.0	2556.4	2681.6	2836.3	2871.8
20°	2307.4	2287.3	2274.9	2244.0	2273.4	2403.3	2608.9	2677.0	2831.6	2989.4	3014.1
22.5°	2760.5	2715.7	2627.5	2506.9	2414.1	2496.0	2728.0	2806.9	3006.4	3161.0	3161.0
25°	3337.3	3280.1	3192.0	2929.1	2701.7	2649.2	2862.6	2961.5	3196.6	3352.8	3301.8
27.5°	4059.6	4014.7	3843.1	3536.8	3188.9	2916.7	3018.8	3110.0	3365.2	3553.9	3447.1
30°	4647.2	4625.6	4484.8	4211.1	3827.6	3430.1	3309.5	3369.8	3589.4	3807.5	3697.7
32.5°	5143.7	5143.7	4999.8	4744.7	4385.9	4033.3	3802.8	3846.1	4056.5	4308.5	4104.4
35°	5689.6	5671.0	5555.0	5312.2	4910.1	4599.3	4505.0	4563.7	4753.9	4941.1	4438.5
37.5°	6263.3	6257.1	6136.5	5901.4	5573.6	5182.3	4961.2	4976.6	5074.1	5188.5	4829.7
40°	6886.6	6895.8	6738.1	6592.7	6283.4	5882.9	5459.1	5361.7	5453.0	5776.2	5551.9
42.5°	7622.7	7601.0	7533.0	7335.0	7086.1	6846.4	6337.6	6302.0	6382.4	6728.8	6486.0
45°	8477.9	8508.8	8391.3	8281.5	8114.5	7915.0	7489.7	7427.8	7516.0	8054.2	7709.3
47.5°	9334.7	9305.3	9381.1	9361.0	9450.7	9302.2	8926.4	8799.6	9011.5	9521.8	9014.5
50°	9987.3	10019.8	10177.5	10407.9	10793.0	10876.5	10516.2	10472.9	10567.2	10895.1	10182.2
52.5°	10411.0	10519.3	10766.7	11359.0	12053.4	12593.1	12319.4	12296.2	12257.6	12345.7	11298.7
55°	10687.9	10797.7	11120.9	11993.1	13188.5	14065.4	14079.3	13980.4	13725.2	13661.8	12342.6
57.5°	10517.7	10539.4	11000.2	12166.3	13818.0	15115.5	15570.2	15471.2	14999.5	14759.8	13264.3
60°	9453.7	9498.6	10140.4	11510.6	13544.2	15458.8	16558.4	16513.5	15997.0	15726.4	13981.9
62.5°	7568.6	7698.5	8358.8	9886.8	12271.5	14880.4	16958.9	17085.7	16683.6	16310.9	14207.7
63°	7222.2	7180.4	7877.9	9413.5	11934.3	14594.3	16965.1	17125.9	16714.6	16366.6	14145.8
65°	5346.2	5471.5	5924.6	7423.2	9931.6	13262.8	16583.1	16867.7	16600.1	16120.7	13460.7
67.5°	3001.8	2995.6	3496.6	4857.6	6951.5	10403.3	14994.9	15596.4	15540.8	14466.0	11158.0
70°	1469.2	1492.4	1698.1	2517.7	4031.7	7177.3	12460.1	13109.7	13129.8	11362.1	7715.5
72.5°	665.0	675.8	822.7	1226.4	2072.3	3821.4	8586.2	9206.3	9091.9	7240.7	4260.6
75°	351.1	374.3	453.1	617.1	999.0	1575.9	4670.4	5270.5	5030.8	3308.0	1568.2
77.5°	259.8	267.5	307.8	392.8	535.1	614.0	2015.1	2397.1	2245.5	1197.0	519.6
80°	190.2	196.4	228.9	278.4	337.1	312.4	759.3	870.7	781.0	406.7	159.3
82.5°	116.0	117.5	167.0	207.2	211.9	174.8	250.5	269.1	281.5	228.9	86.6
85°	41.8	52.6	112.9	150.0	125.3	88.2	105.2	116.0	126.8	145.4	51.0
87.5°	4.6	6.2	54.1	72.7	35.6	32.5	38.7	43.3	46.4	54.1	24.7
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°	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6	2299.6
2.5°	2313.6	2319.7	2315.1	2307.4	2305.8	2301.2	2291.9	2291.9	2291.9	2295.0	2291.9
5°	2347.6	2352.2	2341.4	2325.9	2308.9	2287.3	2264.1	2250.2	2248.6	2245.5	2237.8
7.5°	2412.5	2418.7	2394.0	2356.9	2310.5	2257.9	2208.4	2162.0	2140.4	2123.3	2123.3
10°	2506.9	2513.1	2463.6	2397.1	2304.3	2197.6	2080.0	1973.3	1889.8	1851.2	1841.9
12.5°	2619.8	2622.9	2540.9	2424.9	2271.8	2066.1	1815.6	1582.1	1419.7	1345.5	1337.7
15°	2743.5	2721.8	2613.6	2435.7	2179.0	1795.5	1362.5	1076.4	907.8	858.3	876.9
17.5°	2868.8	2828.5	2669.3	2418.7	1970.2	1362.5	915.5	734.6	682.0	668.1	668.1
20°	2986.3	2930.6	2709.5	2344.5	1608.4	938.7	678.9	635.6	626.3	617.1	618.6
22.5°	3103.8	3018.8	2745.0	2179.0	1198.5	671.2	607.8	593.9	581.5	569.1	567.6
25°	3218.3	3100.7	2759.0	1872.8	816.6	576.8	555.2	536.6	511.9	498.0	494.9
27.5°	3337.3	3199.7	2749.7	1486.2	595.4	516.5	494.9	468.6	439.2	414.5	414.5
30°	3566.2	3388.4	2717.2	1068.6	501.1	454.7	426.8	385.1	352.6	327.9	326.3
32.5°	3878.6	3634.3	2605.9	751.6	445.4	400.5	358.8	312.4	278.4	259.8	259.8
35°	4157.0	3881.7	2397.1	553.6	400.5	348.0	296.9	252.1	225.8	213.4	208.8
37.5°	4580.7	4243.6	2109.4	450.0	357.2	301.6	249.0	207.2	185.6	176.3	176.3
40°	5216.3	4685.9	1756.8	394.4	315.5	256.7	207.2	174.8	157.7	146.9	146.9
42.5°	6005.1	5227.2	1399.6	354.1	276.8	221.1	173.2	148.5	133.0	125.3	123.7
45°	6997.9	5797.8	1077.9	317.0	245.9	188.7	146.9	125.3	109.8	105.2	106.7
47.5°	8034.1	6300.4	835.1	284.6	213.4	159.3	125.3	108.3	97.4	91.2	91.2
50°	8918.7	6646.9	634.1	247.4	188.7	134.5	109.8	97.4	88.2	85.1	83.5
52.5°	9657.9	6747.4	485.6	215.0	165.5	116.0	97.4	88.2	80.4	75.8	75.8
55°	10287.3	6659.2	380.4	180.9	139.2	100.5	86.6	78.9	69.6	65.0	63.4
57.5°	10655.4	6376.2	290.7	150.0	112.9	83.5	75.8	66.5	55.7	47.9	47.9
60°	10841.0	5964.8	222.7	123.7	86.6	66.5	61.9	49.5	38.7	32.5	30.9
62.5°	10618.3	5418.9	168.6	97.4	65.0	49.5	41.8	35.6	24.7	18.6	18.6
63°	10480.6	5261.2	162.4	92.8	60.3	46.4	38.7	32.5	21.7	17.0	15.5
65°	9554.3	4573.0	133.0	74.2	47.9	32.5	26.3	23.2	15.5	7.7	6.2
67.5°	7587.1	3498.2	105.2	55.7	34.0	23.2	15.5	13.9	4.6	0.0	0.0
70°	5129.7	2259.4	82.0	40.2	23.2	13.9	7.7	6.2	1.5	0.0	0.0
72.5°	2675.4	1158.3	63.4	29.4	13.9	9.3	4.6	1.5	0.0	0.0	0.0
75°	946.5	394.4	46.4	18.6	9.3	4.6	1.5	0.0	0.0	0.0	0.0
77.5°	286.1	146.9	29.4	13.9	6.2	3.1	0.0	0.0	0.0	0.0	0.0
80°	100.5	54.1	17.0	9.3	4.6	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	49.5	26.3	10.8	7.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0
85°	27.8	17.0	9.3	7.7	4.6	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	20.1	12.4	9.3	7.7	6.2	3.1	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)