

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: P454565

Luminaire Tested: **GALN-SA5C-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20146 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

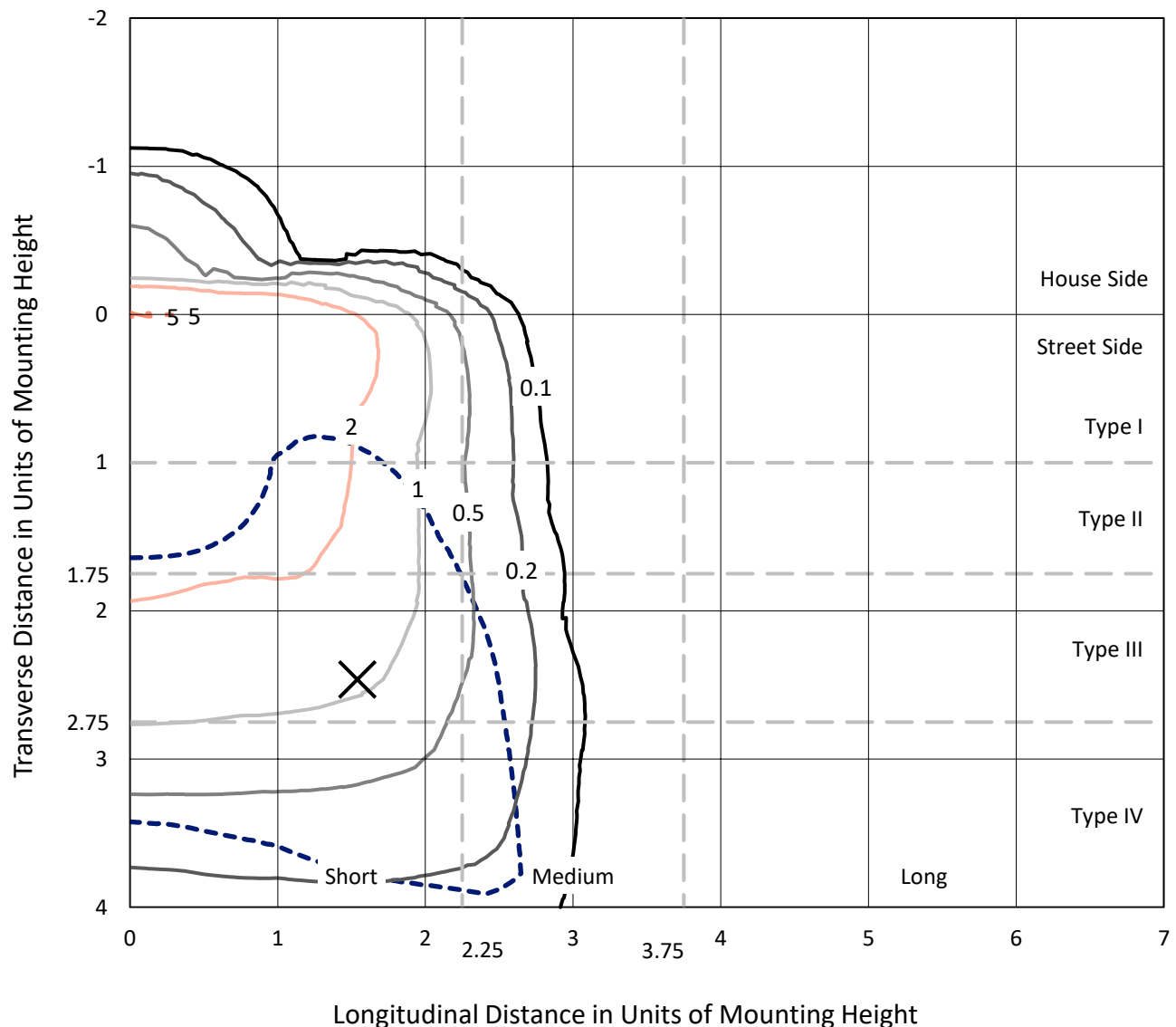


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

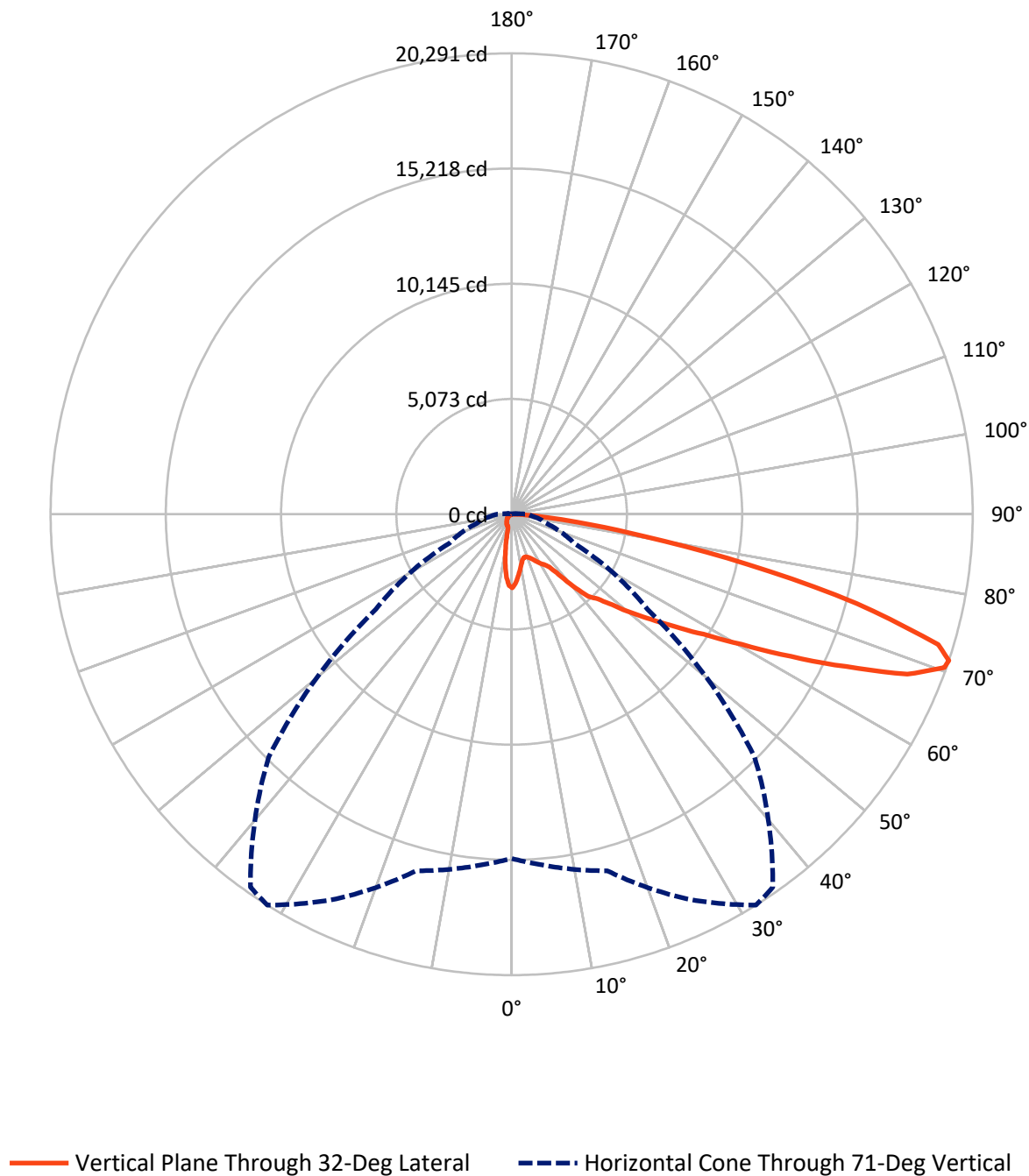


Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1687.4	0.0	1687.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	18458.6	0.0	18458.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	20146.0	0.0	20146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	1.3
10°-20°	571.8	2.8
20°-30°	889.5	4.4
30°-40°	1481.8	7.4
40°-50°	2756.5	13.7
50°-60°	4425.6	22.0
60°-70°	5952.7	29.5
70°-80°	3531.8	17.5
80°-90°	273.0	1.4
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°	20146.0	100.0
0°-180°	20146.0	100.0

Coefficient of Utilization



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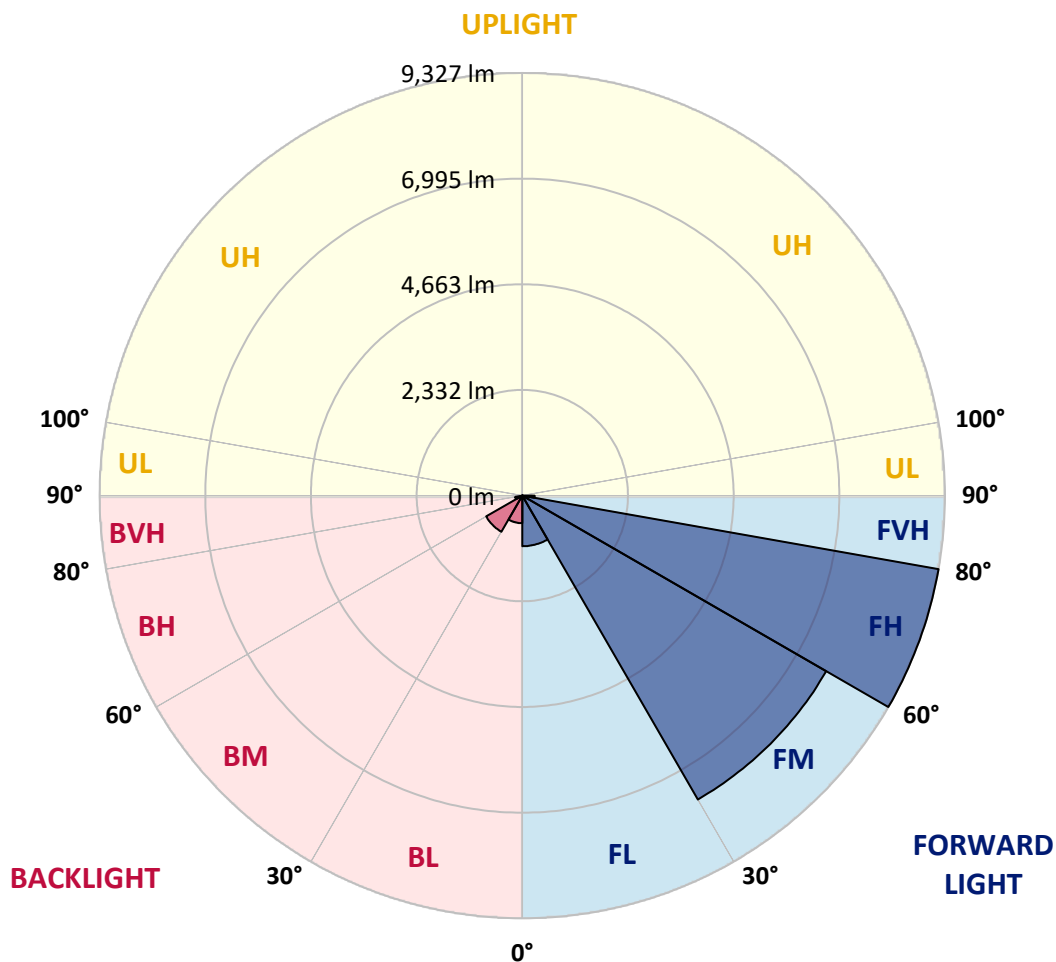
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1116.6	5.5			
FM	(30°-60°)	7743.4	38.4			
FH	(60°-80°)	9326.6	46.3			G4/12000
FVH	(80°-90°)	271.9	1.3			G3/500
BL	(0°-30°)	608.0	3.0	B2/1000		
BM	(30°-60°)	920.5	4.6	B1/1000		
BH	(60°-80°)	157.8	0.8	B1/500		G1/500
BVH	(80°-90°)	1.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8
2.5°	3004.7	3035.7	3031.0	3041.8	3068.1	3079.0	3108.3	3140.8	3185.7	3216.6	3236.7
5°	2690.8	2714.0	2717.1	2771.2	2797.5	2826.9	2913.5	3007.8	3113.0	3196.5	3252.2
7.5°	2355.2	2367.6	2392.3	2463.5	2530.0	2559.4	2690.8	2854.7	3020.2	3176.4	3276.9
10°	2078.4	2092.3	2137.2	2213.0	2274.8	2313.5	2496.0	2701.6	2933.6	3165.6	3312.5
12.5°	1920.7	1928.4	1945.4	2013.5	2092.3	2134.1	2330.5	2565.5	2864.0	3170.2	3372.8
15°	1909.9	1906.8	1886.7	1914.5	1985.6	2028.9	2220.7	2472.8	2802.1	3185.7	3443.9
17.5°	1967.1	1959.3	1911.4	1911.4	1970.2	2005.7	2174.3	2423.3	2771.2	3221.2	3544.4
20°	2055.2	2042.8	1964.0	1957.8	2015.0	2052.1	2202.1	2426.4	2777.4	3287.7	3679.0
22.5°	2166.6	2152.6	2033.6	2036.7	2098.5	2135.6	2282.5	2482.0	2816.1	3369.7	3822.8
25°	2311.9	2296.5	2155.7	2149.6	2214.5	2247.0	2401.6	2581.0	2870.2	3471.8	4011.5
27.5°	2505.2	2472.8	2304.2	2294.9	2364.5	2406.3	2545.4	2714.0	2966.1	3612.5	4265.1
30°	2664.5	2628.9	2468.1	2443.4	2517.6	2550.1	2693.9	2893.4	3154.7	3858.4	4616.1
32.5°	2873.3	2820.7	2632.0	2567.1	2646.0	2687.7	2908.9	3227.4	3434.6	4118.2	5033.7
35°	3343.4	3310.9	3080.5	2853.2	2848.5	2901.1	3225.9	3564.5	3722.3	4523.3	5602.8
37.5°	4016.1	3992.9	3748.6	3443.9	3355.8	3331.0	3610.9	3935.7	4181.6	5080.1	6264.6
40°	4797.1	4742.9	4518.7	4260.4	4146.0	4073.3	4065.6	4487.8	4781.6	5836.3	6954.3
42.5°	5356.9	5257.9	4985.7	4967.2	4942.4	4866.6	4647.1	5295.0	5556.4	6649.7	7692.0
45°	5944.5	5794.5	5389.3	5319.8	5310.5	5305.8	5525.4	6250.7	6400.7	7531.2	8449.7
47.5°	6400.7	6281.6	5949.2	5918.2	5956.9	6062.0	6686.8	7265.2	7234.2	8316.8	9085.3
50°	7008.5	6918.8	6549.2	6607.9	6807.4	6979.1	7996.6	8370.9	7919.3	8935.3	9547.7
52.5°	7726.0	7560.5	7217.2	7376.5	7682.7	7968.8	9386.9	9339.0	8400.3	9400.8	9892.6
55°	8347.7	8230.2	8112.6	8278.1	8735.8	9093.1	10642.6	10064.2	8749.8	9775.0	10044.1
57.5°	9399.3	9371.4	9250.8	9419.4	9974.5	10345.7	11766.9	10627.1	8974.0	9969.9	9866.3
60°	10955.0	10910.1	10685.9	10900.9	11624.6	12207.6	12803.0	11132.8	9025.0	9894.1	9354.4
62.5°	12826.2	12673.1	12481.3	12798.3	13791.2	14047.9	13778.8	11432.8	8834.8	9291.0	8120.4
65°	14573.6	14415.9	14420.6	15088.6	16169.6	16344.3	14917.0	11388.0	8278.1	7780.1	5989.4
67.5°	15911.3	15885.0	16073.7	17377.3	18790.8	18670.2	15934.5	10716.8	6628.0	5042.9	3182.6
70°	15979.4	16030.4	16571.6	18772.2	20207.3	20015.6	15847.9	8711.1	4132.1	2319.7	1254.2
71°	15156.7	15500.0	16248.4	18728.9	20290.8	20041.9	15118.0	7296.1	3031.0	1617.6	904.7
72.5°	12915.9	13096.8	14714.4	17626.3	19630.5	19098.5	13266.9	5114.1	1940.8	989.7	519.6
75°	7113.6	7559.0	9853.9	13828.3	15701.0	15234.0	8646.1	2429.5	968.1	541.3	215.0
77.5°	3386.7	3300.1	4807.9	8224.0	10645.7	10620.9	4356.3	1079.4	564.5	366.5	108.3
80°	968.1	1088.7	1840.3	3909.4	5910.5	5975.4	1673.2	521.2	391.2	286.1	55.7
82.5°	292.3	298.5	675.8	1728.9	2939.8	2771.2	627.9	266.0	281.5	227.3	32.5
85°	51.0	63.4	199.5	609.3	1121.2	850.5	157.7	126.8	185.6	150.0	18.6
87.5°	3.1	4.6	66.5	69.6	99.0	57.2	27.8	18.6	40.2	40.2	10.8
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°	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8	3239.8
2.5°	3250.6	3259.9	3253.7	3239.8	3216.6	3188.8	3151.6	3120.7	3094.4	3080.5	3097.5
5°	3270.7	3283.1	3252.2	3182.6	3077.4	2963.0	2833.1	2732.6	2653.7	2628.9	2619.7
7.5°	3301.6	3309.4	3225.9	3071.2	2848.5	2577.9	2341.3	2141.8	1987.2	1940.8	1872.7
10°	3341.9	3337.2	3179.5	2891.8	2500.6	2093.9	1727.4	1455.2	1249.5	1175.3	1169.1
12.5°	3403.7	3379.0	3120.7	2647.5	2086.1	1554.2	1101.1	861.4	731.5	688.2	678.9
15°	3481.0	3422.3	3027.9	2361.4	1597.5	1003.6	678.9	606.2	589.2	586.1	583.0
17.5°	3572.3	3479.5	2905.8	2010.4	1122.7	651.1	567.5	566.0	567.5	564.5	562.9
20°	3696.0	3539.8	2760.4	1594.4	742.3	549.0	541.3	541.3	542.8	541.3	541.3
22.5°	3827.4	3610.9	2581.0	1217.0	559.8	521.2	519.6	522.7	525.8	524.2	524.2
25°	3989.8	3703.7	2344.4	833.5	501.0	498.0	499.5	505.7	511.9	513.4	511.9
27.5°	4224.9	3818.2	2090.8	573.7	459.3	462.4	477.8	493.3	502.6	504.1	504.1
30°	4489.3	3945.0	1759.8	465.5	425.3	425.3	443.8	473.2	493.3	496.4	498.0
32.5°	4829.5	4091.9	1393.3	419.1	392.8	389.7	406.7	442.3	479.4	490.2	490.2
35°	5250.2	4265.1	1036.1	389.7	369.6	361.9	371.1	400.5	448.5	479.4	482.5
37.5°	5743.5	4429.0	757.8	363.4	347.9	337.1	343.3	366.5	405.2	451.6	463.9
40°	6199.7	4574.4	566.0	341.8	326.3	318.6	323.2	334.0	366.5	409.8	417.5
42.5°	6697.6	4687.3	450.0	318.6	304.6	301.6	301.6	306.2	327.8	352.6	354.1
45°	7194.0	4727.5	377.3	290.7	281.5	284.5	283.0	279.9	289.2	286.1	286.1
47.5°	7548.2	4679.5	312.4	264.4	264.4	269.1	261.3	250.5	245.9	227.3	228.9
50°	7791.0	4504.8	256.7	233.5	245.9	252.1	236.6	219.6	202.6	182.5	177.8
52.5°	7891.5	4193.9	210.3	193.3	218.0	225.8	207.2	187.1	160.8	143.8	139.2
55°	7826.5	3810.4	174.7	157.7	184.0	193.3	174.7	151.6	122.2	103.6	100.5
57.5°	7540.4	3352.7	148.5	125.3	146.9	153.1	140.7	116.0	86.6	68.0	68.0
60°	7045.6	2879.5	120.6	99.0	109.8	119.1	106.7	83.5	58.8	41.8	38.7
62.5°	6041.9	2338.2	97.4	77.3	77.3	85.1	74.2	60.3	37.1	21.7	20.1
65°	4362.5	1603.7	77.3	57.2	55.7	55.7	46.4	40.2	21.7	9.3	6.2
67.5°	2370.7	904.7	61.9	43.3	38.7	37.1	29.4	23.2	9.3	1.5	0.0
70°	932.5	347.9	47.9	29.4	24.7	23.2	15.5	10.8	6.2	0.0	0.0
71°	632.5	239.7	41.8	24.7	20.1	17.0	12.4	9.3	4.6	0.0	0.0
72.5°	361.9	148.5	32.5	18.6	15.5	12.4	9.3	6.2	4.6	0.0	0.0
75°	157.7	75.8	20.1	13.9	10.8	7.7	6.2	4.6	1.5	0.0	0.0
77.5°	80.4	41.8	13.9	10.8	6.2	4.6	3.1	1.5	0.0	0.0	0.0
80°	44.8	21.7	9.3	6.2	4.6	3.1	1.5	1.5	0.0	0.0	0.0
82.5°	24.7	12.4	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.5	7.7	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	3.1	0.0	0.0	0.0	0.0	1.5	1.5	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)