

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: P454557

Luminaire Tested: **GALN-SA5C-830-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20915 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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



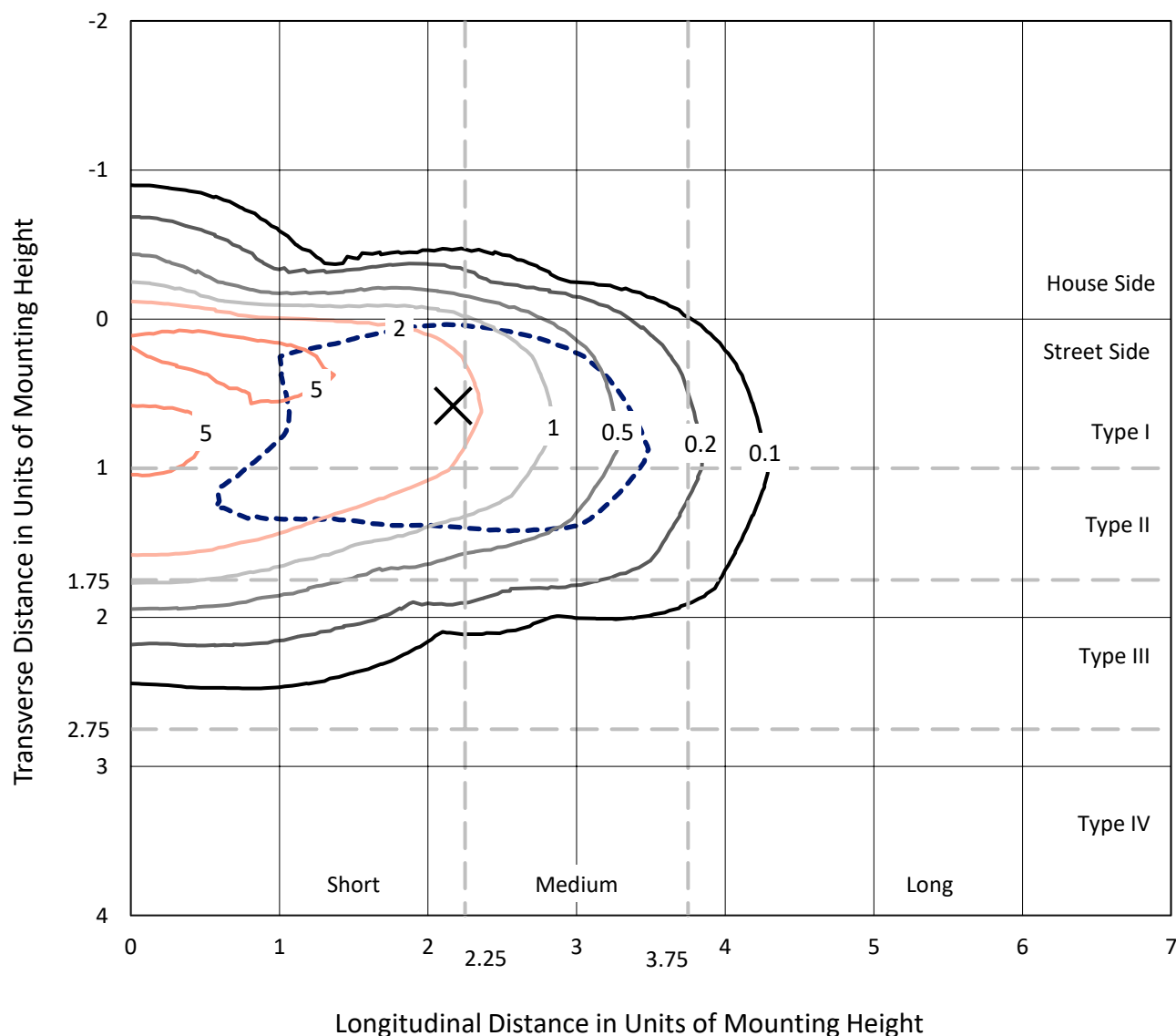
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



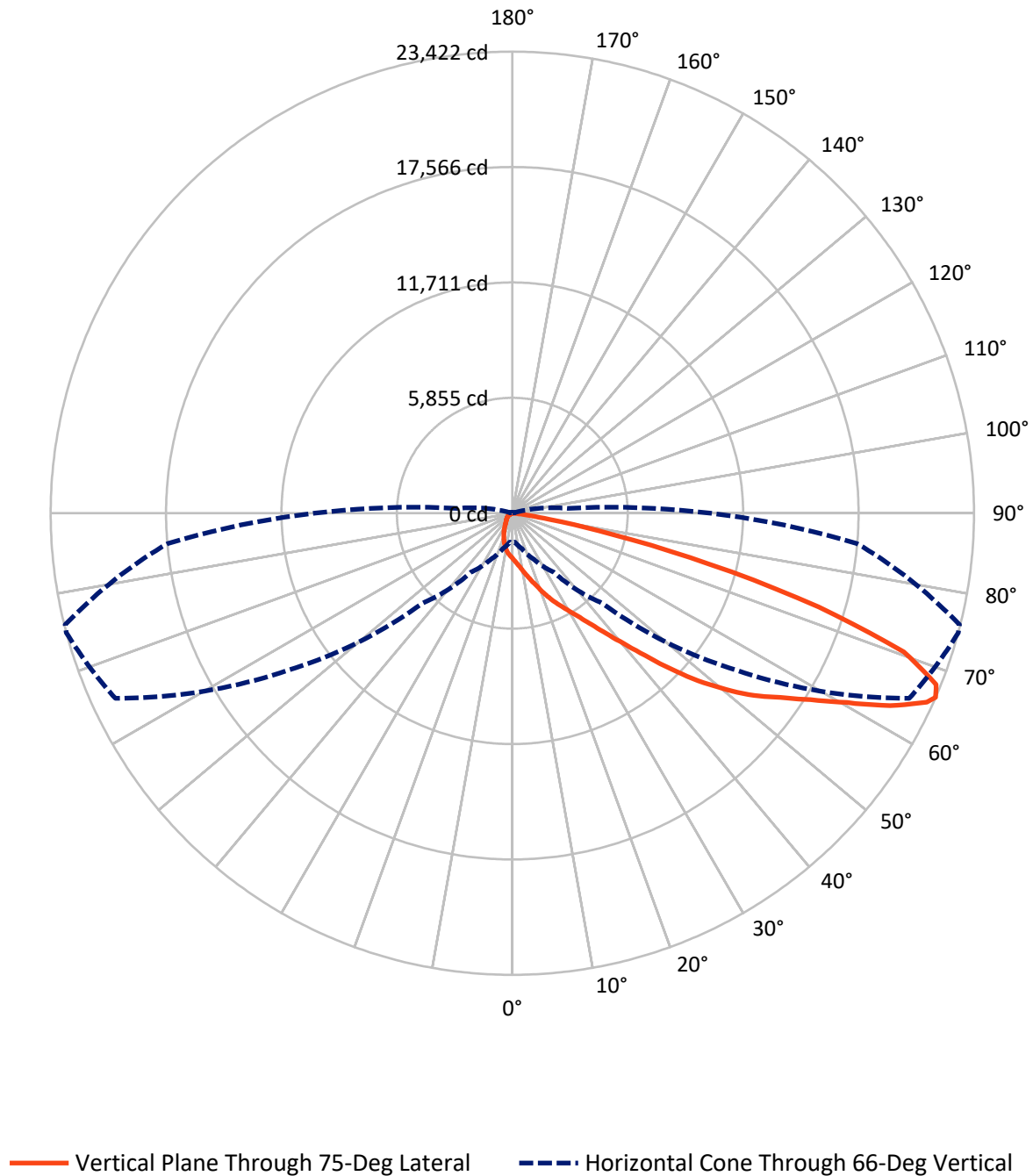
Based on 25 foot mounting height. Maximum calculated value = 6.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.2	0.0	1291.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19623.8	0.0	19623.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	20915.0	0.0	20915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.6	1.1
10°-20°	649.3	3.1
20°-30°	1121.1	5.4
30°-40°	2022.3	9.7
40°-50°	3653.3	17.5
50°-60°	5695.6	27.2
60°-70°	5410.6	25.9
70°-80°	2027.7	9.7
80°-90°	114.4	0.5
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°	20915.0	100.0
0°-180°	20915.0	100.0

Coefficient of Utilization



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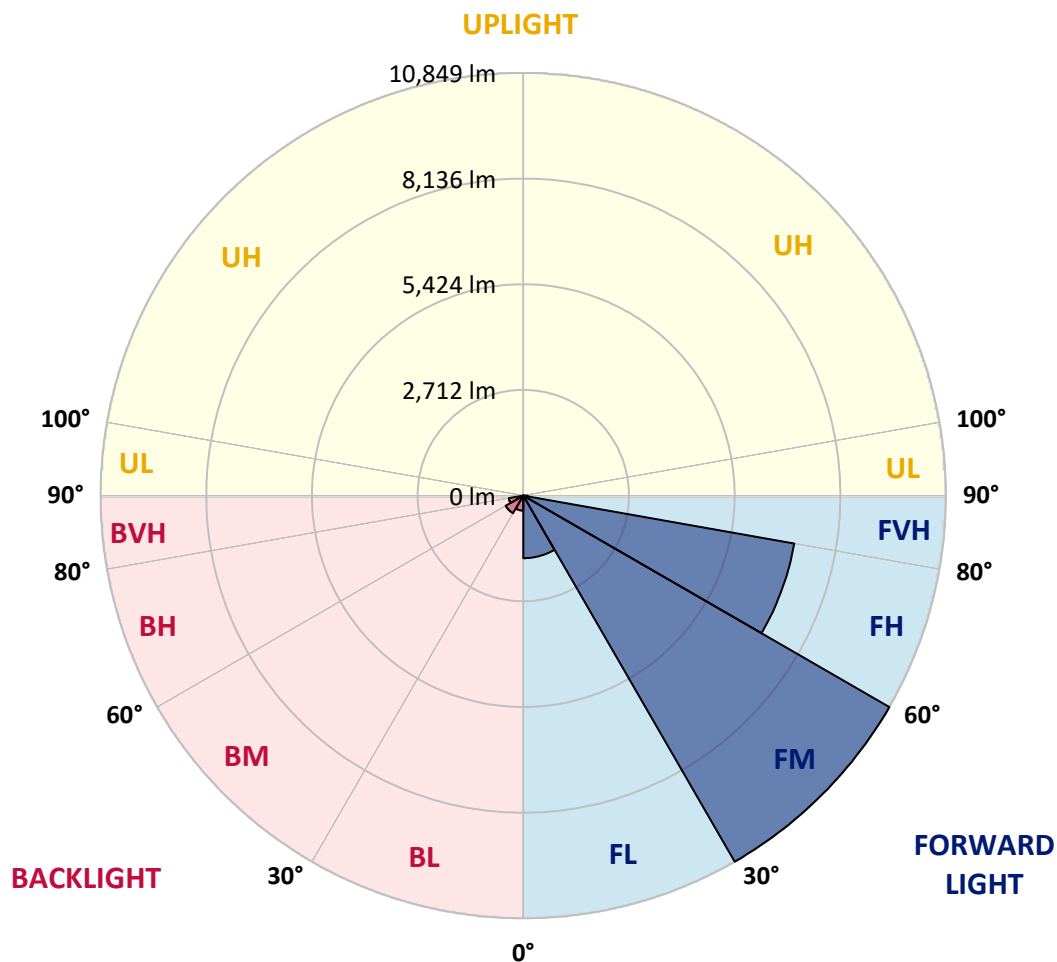
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1605.4	7.7			
FM	(30°-60°)	10848.6	51.9			
FH	(60°-80°)	7061.3	33.8			G3/7500
FVH	(80°-90°)	108.5	0.5			G2/225
BL	(0°-30°)	385.6	1.8	B1/500		
BM	(30°-60°)	522.6	2.5	B1/1000		
BH	(60°-80°)	377.0	1.8	B1/500		G1/500
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3
2.5°	2732.7	2698.6	2709.5	2694.0	2658.4	2605.8	2559.4	2492.9	2426.4	2415.6	2341.4
5°	3093.0	3083.7	3071.3	3026.5	3001.7	2921.3	2825.4	2711.0	2573.4	2548.6	2414.1
7.5°	3338.9	3334.2	3340.4	3317.2	3295.6	3222.9	3120.8	2964.6	2751.2	2737.3	2513.0
10°	3419.3	3431.7	3454.9	3492.0	3526.0	3502.8	3425.5	3230.6	2981.6	2941.4	2625.9
12.5°	3372.9	3386.8	3442.5	3541.5	3651.3	3714.7	3683.7	3541.5	3226.0	3193.5	2752.8
15°	3253.8	3270.8	3349.7	3502.8	3699.2	3878.6	3955.9	3853.9	3510.5	3458.0	2905.9
17.5°	3077.5	3102.3	3215.2	3417.7	3686.8	3996.1	4214.2	4180.2	3813.6	3764.2	3072.9
20°	2944.5	2963.1	3059.0	3290.9	3634.3	4061.1	4460.1	4556.0	4187.9	4102.8	3269.3
22.5°	3032.7	3038.9	3071.3	3210.5	3539.9	4078.1	4676.6	4947.2	4585.3	4509.6	3473.4
25°	3464.1	3402.3	3369.8	3338.9	3519.8	4062.6	4873.0	5355.5	4981.3	4900.8	3676.0
27.5°	4144.6	4116.8	3952.8	3733.2	3691.5	4082.7	5002.9	5742.1	5354.0	5267.4	3874.0
30°	4885.4	4837.4	4736.9	4415.2	4092.0	4225.0	5097.2	6117.9	5794.7	5680.3	4054.9
32.5°	5565.8	5596.8	5446.7	5115.8	4741.5	4528.1	5219.4	6527.7	6300.4	6158.1	4265.2
35°	6359.2	6421.0	6190.6	5873.6	5435.9	5075.6	5457.6	6990.1	6942.2	6762.8	4590.0
37.5°	7164.9	7202.0	7061.3	6615.9	6221.5	5771.5	5906.1	7560.8	7732.5	7579.4	4978.2
40°	7842.3	7893.3	7789.7	7393.8	6973.1	6577.2	6557.1	8182.5	8672.7	8515.0	5556.5
42.5°	8360.3	8399.0	8402.1	8122.2	7743.3	7563.9	7387.6	8975.8	9851.2	9668.7	6227.7
45°	9014.5	9070.2	9037.7	8847.5	8564.5	8532.0	8440.8	9934.7	11261.6	11031.1	7098.4
47.5°	10025.9	10063.0	9982.6	9758.4	9470.7	9521.8	9467.6	11009.5	12699.8	12501.8	8000.0
50°	10728.0	10789.9	10904.3	10994.0	10785.2	10596.6	10435.7	12013.2	14065.3	13887.5	8921.7
52.5°	10720.3	10822.4	11184.2	11635.8	12092.0	12034.8	11572.4	13122.0	15369.0	15149.4	9787.7
55°	9998.1	10196.0	10728.0	11529.1	12792.6	13422.0	13211.7	14405.6	16494.9	16346.4	10791.4
57.5°	8507.3	8627.9	9367.1	10486.8	12401.3	14074.6	15110.8	16145.4	17845.0	17775.4	12350.3
60°	5722.0	5776.1	6727.2	8111.4	10557.9	13423.6	16502.6	18250.2	19507.5	19473.4	14170.5
62.5°	3278.6	3301.8	3991.5	5159.1	7512.9	11376.0	16620.2	20846.7	21500.9	21519.4	16276.8
65°	1764.5	1776.9	2333.7	3028.0	4571.4	8108.3	14945.3	22269.5	23112.3	23147.9	17582.1
66°	1523.3	1464.5	1857.3	2581.1	3637.3	6453.5	13886.0	22218.5	23421.6	23383.0	17535.7
67.5°	1158.3	1210.9	1483.1	1984.1	2695.5	4588.4	11464.1	21230.2	23186.6	23065.9	16822.7
70°	828.9	850.6	1056.3	1415.0	1835.7	2517.7	7325.7	17633.1	21074.0	20911.7	14656.1
72.5°	535.1	558.3	748.5	1023.8	1326.9	1374.8	4101.3	12740.0	16247.4	16224.2	11037.3
75°	382.0	403.6	494.9	733.0	997.5	850.6	1974.9	8586.1	10329.0	10259.4	6827.8
77.5°	276.8	287.6	330.9	479.4	712.9	609.3	915.5	4585.3	5142.1	5384.9	3017.2
80°	159.3	168.6	230.4	292.3	482.5	416.0	437.7	1840.3	1897.5	1806.3	943.4
82.5°	78.9	89.7	137.6	199.5	301.6	279.9	201.0	553.6	584.6	569.1	238.2
85°	18.6	23.2	77.3	131.5	146.9	125.3	97.4	162.4	201.0	196.4	91.2
87.5°	1.5	3.1	27.8	23.2	24.7	41.8	34.0	41.8	65.0	60.3	32.5
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°	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3	2287.3
2.5°	2307.4	2278.0	2192.9	2109.4	2039.8	1967.1	1900.6	1862.0	1846.5	1829.5	1837.2
5°	2339.8	2268.7	2097.0	1948.6	1803.2	1679.5	1580.5	1517.1	1486.2	1481.5	1473.8
7.5°	2383.1	2261.0	1995.0	1763.0	1572.8	1435.1	1322.3	1231.0	1203.2	1178.4	1158.3
10°	2435.7	2247.1	1868.2	1568.1	1365.6	1192.3	1043.9	935.6	880.0	864.5	875.3
12.5°	2491.4	2220.8	1735.2	1388.8	1155.2	934.1	796.4	742.3	726.9	720.7	722.2
15°	2547.1	2188.3	1596.0	1215.5	920.2	745.4	682.0	668.1	661.9	658.8	655.7
17.5°	2598.1	2135.7	1439.8	1047.0	745.4	637.2	614.0	601.6	589.2	584.6	576.8
20°	2658.4	2075.4	1299.1	858.3	631.0	576.8	549.0	525.8	507.2	494.9	493.3
22.5°	2715.6	1998.1	1152.1	711.4	575.3	518.1	473.2	448.5	426.8	411.4	416.0
25°	2746.6	1903.7	1020.7	620.1	524.3	459.3	409.8	378.9	355.7	348.0	346.4
27.5°	2746.6	1787.7	892.3	567.6	477.9	406.7	355.7	326.3	310.8	300.0	301.6
30°	2724.9	1659.4	773.2	527.4	437.7	360.3	312.4	286.1	273.7	266.0	264.5
32.5°	2707.9	1537.2	671.2	488.7	395.9	320.1	278.4	258.3	245.9	238.2	238.2
35°	2734.2	1432.1	592.3	450.0	357.2	289.2	252.1	233.5	221.1	215.0	213.4
37.5°	2803.8	1336.2	532.0	408.3	321.7	262.9	233.5	211.9	199.5	191.8	188.7
40°	2975.5	1282.0	487.1	369.6	287.6	241.3	211.9	191.8	176.3	168.6	167.0
42.5°	3250.7	1283.6	443.8	334.0	261.4	222.7	193.3	170.1	153.1	145.4	143.8
45°	3665.2	1342.4	409.8	300.0	238.2	202.6	173.2	148.5	133.0	125.3	125.3
47.5°	4161.6	1456.8	380.4	270.6	216.5	184.0	153.1	128.4	112.9	106.7	106.7
50°	4699.8	1605.3	351.1	239.7	198.0	163.9	131.5	111.3	99.0	94.3	94.3
52.5°	5248.8	1784.7	321.7	215.0	177.8	142.3	112.9	99.0	88.2	85.1	83.5
55°	5969.5	2013.5	290.7	188.7	156.2	122.2	100.5	86.6	74.2	69.6	68.0
57.5°	7078.3	2358.4	256.7	165.5	128.4	102.1	86.6	72.7	58.8	51.0	49.5
60°	8416.0	2779.0	221.1	145.4	103.6	83.5	69.6	55.7	43.3	34.0	32.5
62.5°	9668.7	3046.6	187.1	122.2	82.0	63.4	49.5	41.8	30.9	21.7	20.1
65°	10222.3	2956.9	154.6	99.0	65.0	44.8	32.5	29.4	18.6	9.3	7.7
66°	10038.3	2823.9	142.3	89.7	58.8	38.7	27.8	24.7	13.9	4.6	4.6
67.5°	9495.5	2510.0	123.7	77.3	51.0	30.9	21.7	18.6	7.7	1.5	0.0
70°	8136.1	2030.5	97.4	57.2	37.1	21.7	12.4	9.3	4.6	0.0	0.0
72.5°	6249.4	1512.5	77.3	43.3	26.3	12.4	6.2	3.1	4.6	0.0	0.0
75°	3829.1	864.5	60.3	32.5	17.0	7.7	4.6	0.0	4.6	1.5	0.0
77.5°	1699.6	388.2	40.2	21.7	12.4	6.2	3.1	0.0	3.1	1.5	0.0
80°	429.9	126.8	23.2	15.5	9.3	4.6	1.5	0.0	3.1	3.1	1.5
82.5°	117.5	46.4	17.0	12.4	7.7	4.6	1.5	0.0	3.1	3.1	3.1
85°	46.4	21.7	15.5	12.4	9.3	4.6	1.5	0.0	3.1	3.1	3.1
87.5°	21.7	15.5	15.5	13.9	10.8	4.6	1.5	0.0	3.1	1.5	3.1
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)