

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: P457807

Luminaire Tested: **GALN-SA9A-830-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26376 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 274
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

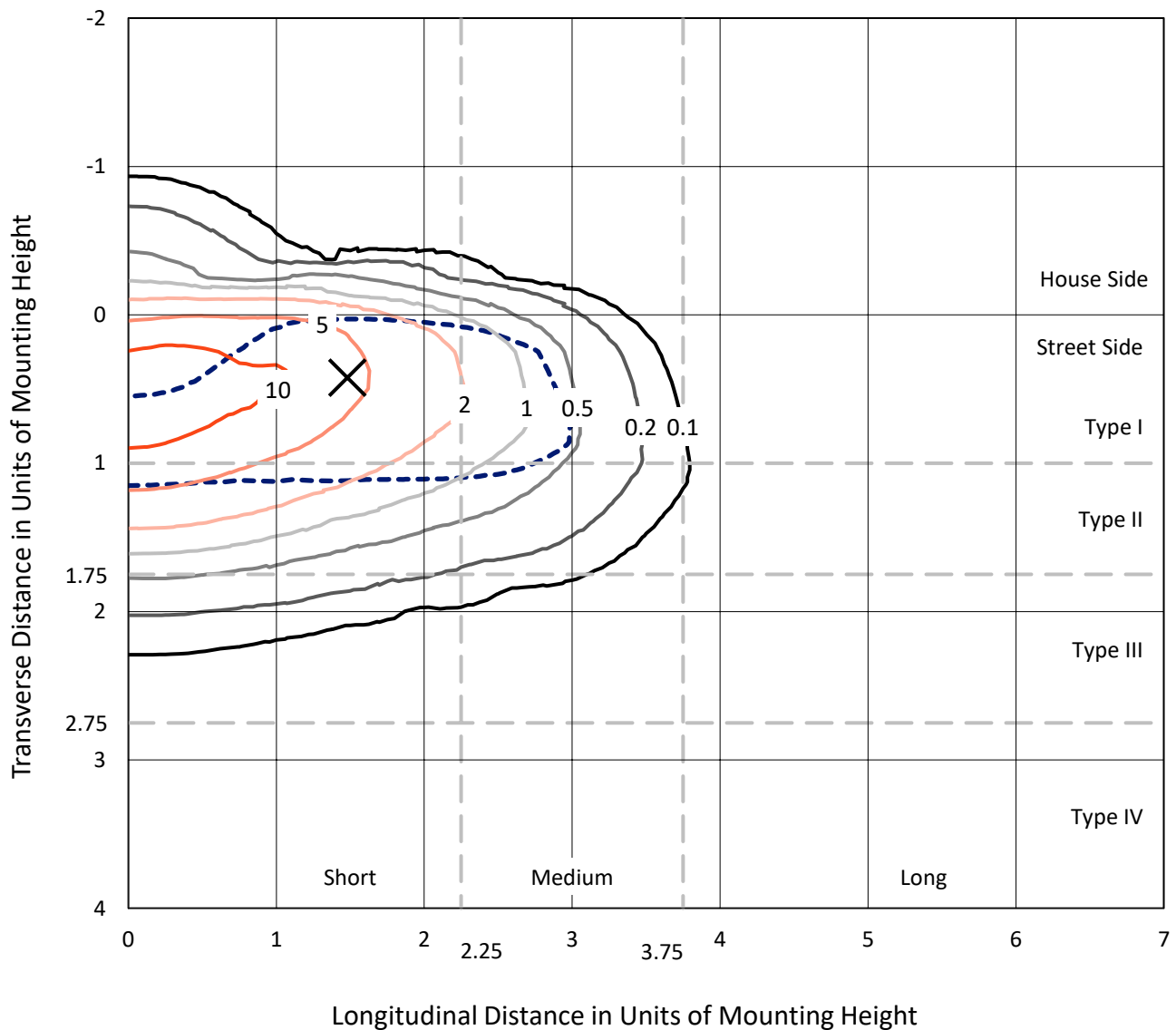


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

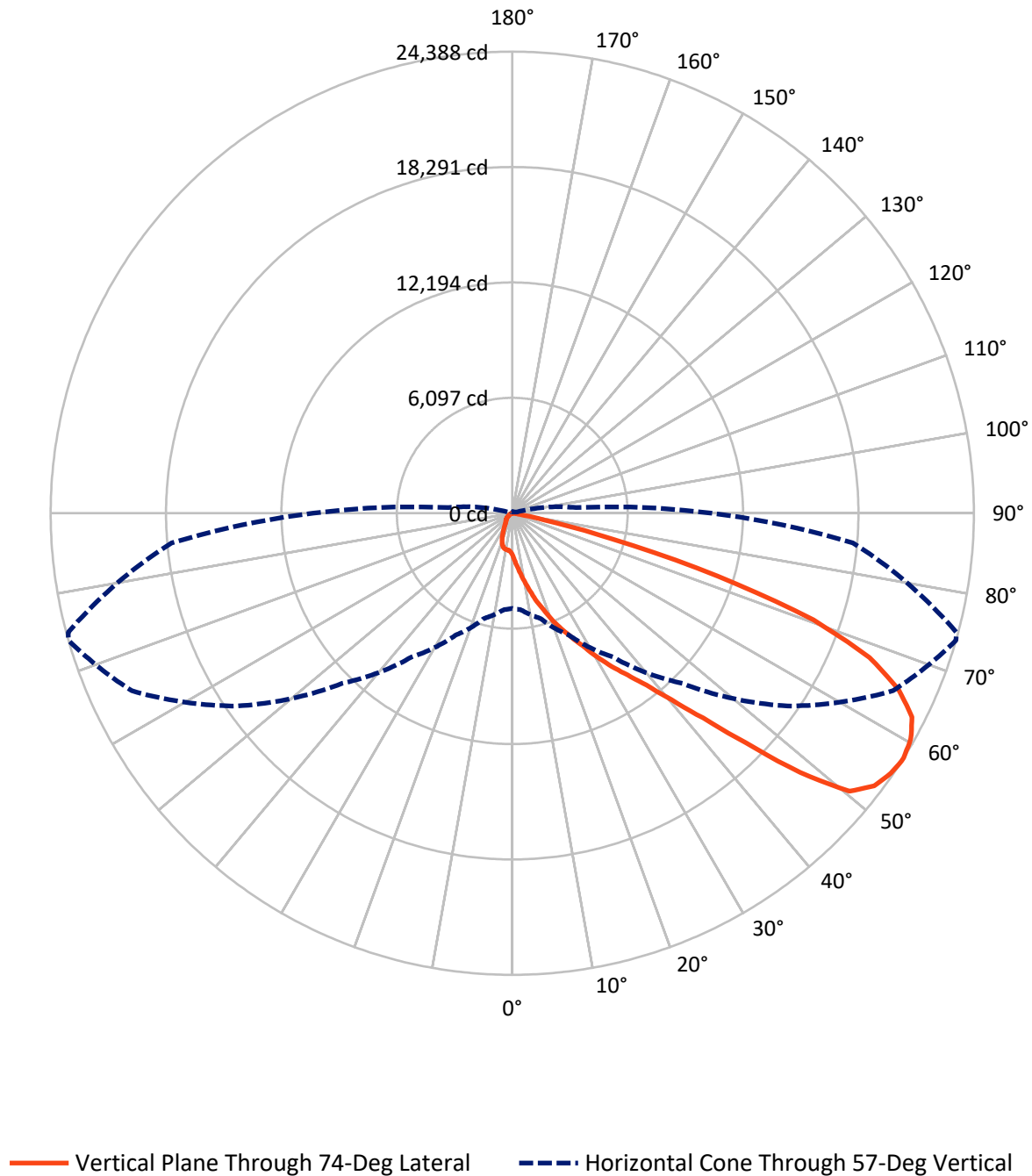


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1521.3	0.0	1521.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	24854.7	0.0	24854.7
	% Fixture	94.2	0.0	94.2
Total	Lumens	26376.0	0.0	26376.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	1.0
10°-20°	1050.9	4.0
20°-30°	2248.7	8.5
30°-40°	4133.2	15.7
40°-50°	6336.2	24.0
50°-60°	6702.8	25.4
60°-70°	4377.1	16.6
70°-80°	1196.0	4.5
80°-90°	64.4	0.2
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°	26376.0	100.0
0°-180°	26376.0	100.0

Coefficient of Utilization



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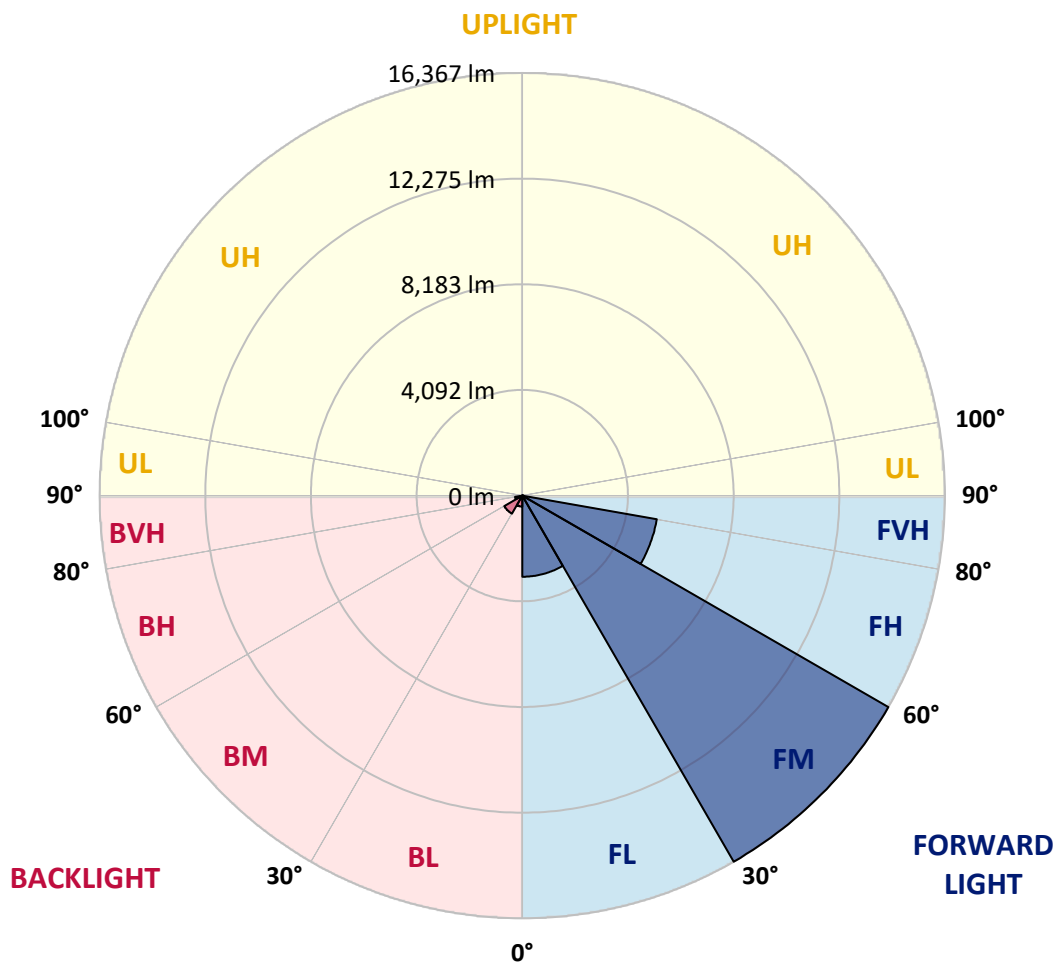
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3141.3	11.9			
FM	(30°-60°)	16366.8	62.1			
FH	(60°-80°)	5287.5	20.0			G3/7500
FVH	(80°-90°)	59.1	0.2			G1/100
BL	(0°-30°)	424.9	1.6	B1/500		
BM	(30°-60°)	805.4	3.1	B1/1000		
BH	(60°-80°)	285.6	1.1	B1/500		G1/500
BVH	(80°-90°)	5.3	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°	74°	75°	85°
0°	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0
2.5°	3232.4	3203.3	3145.0	3125.0	3039.4	2906.4	2789.9	2633.3	2509.4	2496.7	2347.4
5°	4328.7	4263.1	4235.8	4104.7	3898.9	3705.9	3374.4	3123.1	2833.6	2811.7	2511.3
7.5°	5384.9	5293.8	5266.5	5142.7	4902.3	4598.2	4168.4	3711.3	3252.4	3210.5	2731.6
10°	6149.7	6162.5	6113.3	6031.4	5836.5	5526.9	4997.0	4372.4	3718.6	3665.8	2979.3
12.5°	6697.9	6696.1	6705.2	6703.4	6599.6	6364.6	5807.4	5088.1	4232.2	4128.4	3263.4
15°	7054.8	7060.3	7087.6	7182.3	7193.2	7047.5	6583.2	5772.8	4827.7	4698.4	3571.1
17.5°	7415.4	7453.6	7497.3	7586.6	7666.7	7608.4	7280.6	6486.6	5366.7	5270.2	3900.7
20°	8010.9	8063.7	8038.2	8092.8	8134.7	8140.2	7887.0	7145.9	6020.5	5858.4	4277.7
22.5°	8963.3	8961.5	8895.9	8797.6	8715.6	8712.0	8482.5	7823.3	6614.1	6457.5	4656.5
25°	10167.0	10172.5	10045.0	9764.6	9560.6	9311.1	9047.1	8417.0	7249.7	7056.6	5055.3
27.5°	11547.4	11512.8	11319.8	10933.7	10529.4	10103.3	9722.7	9107.2	7923.5	7763.2	5512.4
30°	12787.5	12774.8	12549.0	12077.3	11545.6	11117.6	10565.8	9972.2	8795.8	8599.1	6024.1
32.5°	13942.1	13960.3	13647.1	13159.0	12645.5	12152.0	11569.2	10798.9	9651.7	9373.0	6581.3
35°	14843.5	14861.7	14537.6	14131.5	13603.4	13193.6	12638.2	11680.3	10496.6	10261.7	7222.4
37.5°	15324.3	15348.0	15160.4	14854.5	14524.8	14319.1	13801.9	12814.9	11523.7	11381.7	7979.9
40°	15415.3	15442.7	15360.7	15278.8	15260.6	15408.1	15256.9	14151.5	12947.8	12725.6	9109.0
42.5°	15142.2	15178.6	15215.0	15397.1	15768.6	16309.5	16835.8	15965.3	14781.6	14483.0	10489.4
45°	14424.7	14421.0	14564.9	15036.6	15868.8	17023.3	18485.7	18236.2	17280.1	16925.0	12439.7
47.5°	13197.3	13179.1	13490.5	14162.4	15459.0	17154.5	19831.4	20993.3	20468.8	20141.0	14535.8
50°	11327.0	11416.3	11906.1	12844.0	14441.1	16757.5	20246.6	22801.6	23085.7	22737.9	16229.4
52.5°	9136.3	9132.7	9901.1	11174.1	12933.2	15883.4	19957.1	23129.4	23936.1	23670.2	17063.4
55°	6761.6	6809.0	7608.4	8892.3	10975.6	14288.1	19012.0	22792.5	24260.3	24072.7	17613.4
57°	5029.8	5113.6	5754.6	7113.1	9271.1	12709.2	17753.6	22189.7	24387.7	24285.8	18070.5
57.5°	4694.7	4698.4	5323.0	6557.7	8772.1	12102.8	17393.0	21938.4	24384.1	24327.6	18145.1
60°	2890.0	2981.1	3412.7	4432.5	6421.1	9445.9	14976.5	20494.3	24194.7	24276.7	18463.8
62.5°	1730.0	1768.3	2048.7	2671.5	4139.3	6894.6	12255.8	18645.9	23701.2	23950.7	18442.0
65°	1112.7	1121.8	1249.3	1617.1	2587.7	4660.1	9444.1	16203.9	22424.6	22883.5	17720.8
67.5°	859.5	874.1	925.1	1061.7	1500.6	2902.8	6679.7	13597.9	20359.5	20951.4	15972.6
70°	763.0	770.3	788.5	832.2	992.5	1639.0	4155.7	10622.3	16883.1	17050.7	12499.8
72.5°	622.8	642.8	699.3	713.9	786.7	1023.4	2312.8	7129.5	11343.4	11385.3	6992.9
75°	482.6	486.2	570.0	611.9	662.9	704.8	1032.5	3594.8	5448.6	5157.3	2695.2
77.5°	360.6	377.0	415.2	468.0	540.9	504.4	462.6	1354.9	1691.8	1660.8	783.1
80°	231.3	240.4	289.5	351.5	420.7	329.6	260.4	397.0	371.5	382.4	187.6
82.5°	116.5	118.4	185.7	285.9	267.7	165.7	163.9	162.1	138.4	136.6	87.4
85°	12.7	27.3	120.2	163.9	120.2	54.6	76.5	74.7	72.8	74.7	51.0
87.5°	1.8	1.8	20.0	23.7	16.4	18.2	21.9	23.7	29.1	27.3	21.9
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°	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0	2209.0
2.5°	2274.5	2201.7	2066.9	1937.6	1841.1	1779.2	1699.1	1669.9	1628.0	1622.6	1602.5
5°	2372.9	2234.5	1999.5	1813.8	1664.5	1551.6	1453.2	1371.3	1305.7	1291.1	1298.4
7.5°	2513.1	2307.3	1979.5	1726.4	1518.8	1325.7	1169.1	1072.6	1003.4	977.9	981.6
10°	2671.5	2403.8	1975.9	1633.5	1316.6	1079.9	908.7	823.1	783.1	768.5	752.1
12.5°	2859.1	2514.9	1966.8	1489.6	1094.5	861.4	739.4	688.4	650.1	639.2	639.2
15°	3070.3	2633.3	1923.0	1311.2	888.7	712.0	630.1	590.0	577.3	566.4	566.4
17.5°	3290.7	2749.8	1832.0	1090.8	737.5	610.1	559.1	535.4	517.2	504.4	504.4
20°	3542.0	2864.5	1686.3	896.0	622.8	544.5	504.4	477.1	462.6	451.6	448.0
22.5°	3780.5	2957.4	1500.6	735.7	542.7	489.9	453.4	424.3	409.7	404.3	404.3
25°	4028.2	3013.9	1276.6	608.2	495.3	444.3	404.3	380.6	367.9	364.2	362.4
27.5°	4268.6	3046.6	1079.9	531.8	451.6	402.5	364.2	346.0	333.3	329.6	331.4
30°	4560.0	3052.1	888.7	477.1	413.4	362.4	327.8	311.4	304.1	300.5	298.7
32.5°	4855.0	3044.8	746.6	444.3	377.0	327.8	298.7	285.9	280.4	275.0	275.0
35°	5186.4	3006.6	635.6	411.6	342.4	298.7	273.2	262.2	254.9	249.5	247.7
37.5°	5598.0	2986.6	571.8	375.1	311.4	271.3	247.7	236.7	231.3	224.0	222.2
40°	6246.3	3075.8	551.8	342.4	280.4	245.8	224.0	211.2	204.0	196.7	194.9
42.5°	7054.8	3232.4	519.0	309.6	253.1	222.2	200.3	185.7	173.0	163.9	160.3
45°	8101.9	3438.2	468.0	275.0	229.5	196.7	176.6	158.4	142.0	134.8	132.9
47.5°	9200.0	3636.7	422.5	247.7	204.0	174.8	153.0	132.9	118.4	112.9	111.1
50°	9873.8	3676.7	393.4	216.7	178.5	151.1	129.3	111.1	102.0	96.5	96.5
52.5°	10181.6	3613.0	353.3	189.4	154.8	132.9	111.1	96.5	91.1	87.4	85.6
55°	10396.5	3514.7	300.5	163.9	132.9	112.9	98.3	87.4	80.1	76.5	74.7
57°	10522.1	3381.7	260.4	143.9	114.7	98.3	87.4	78.3	71.0	63.7	63.7
57.5°	10527.6	3330.7	249.5	142.0	109.3	94.7	85.6	76.5	67.4	60.1	58.3
60°	10365.5	2981.1	200.3	120.2	87.4	80.1	71.0	60.1	47.3	40.1	38.2
62.5°	9844.7	2536.7	165.7	102.0	71.0	61.9	51.0	45.5	32.8	23.7	23.7
65°	9056.2	2057.8	142.0	81.9	58.3	45.5	34.6	32.8	20.0	10.9	9.1
67.5°	7916.2	1602.5	120.2	67.4	49.2	32.8	23.7	21.9	10.9	3.6	0.0
70°	6031.4	1092.6	100.2	54.6	36.4	23.7	16.4	12.7	7.3	1.8	0.0
72.5°	3476.4	601.0	83.8	41.9	27.3	18.2	12.7	7.3	7.3	0.0	0.0
75°	1242.0	258.6	63.7	31.0	21.9	14.6	9.1	3.6	5.5	1.8	0.0
77.5°	395.2	138.4	41.9	23.7	18.2	10.9	7.3	3.6	3.6	1.8	0.0
80°	116.5	72.8	25.5	20.0	12.7	9.1	5.5	1.8	3.6	1.8	0.0
82.5°	63.7	36.4	20.0	14.6	12.7	7.3	5.5	1.8	1.8	1.8	0.0
85°	32.8	21.9	16.4	14.6	12.7	7.3	5.5	1.8	0.0	1.8	1.8
87.5°	18.2	16.4	16.4	14.6	12.7	9.1	5.5	1.8	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)