

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: P453463

Luminaire Tested: **GALN-SA4C-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453463
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-SA4C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 16749 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

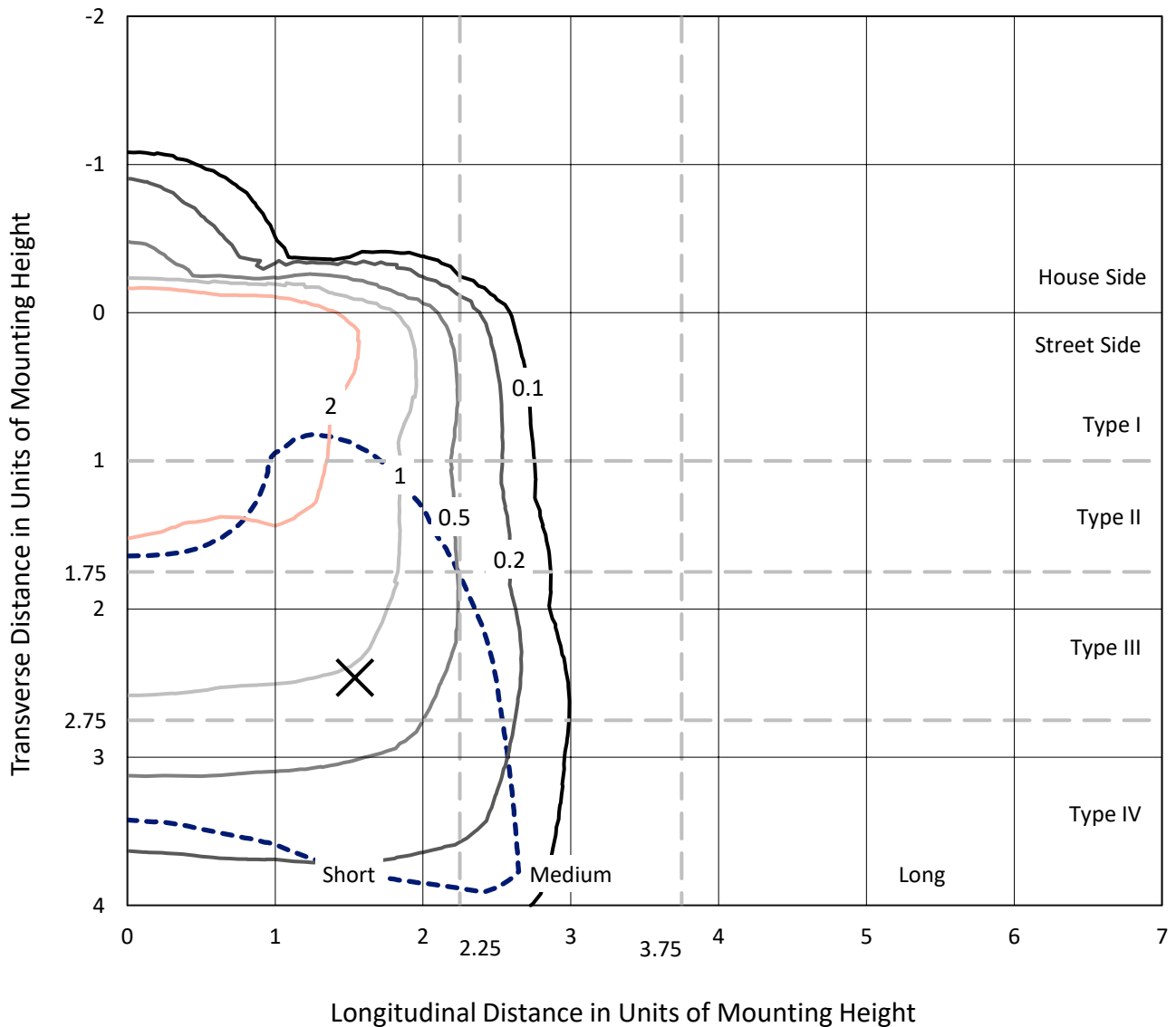
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453463
 CATALOG NUMBER: GALN-SA4C-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

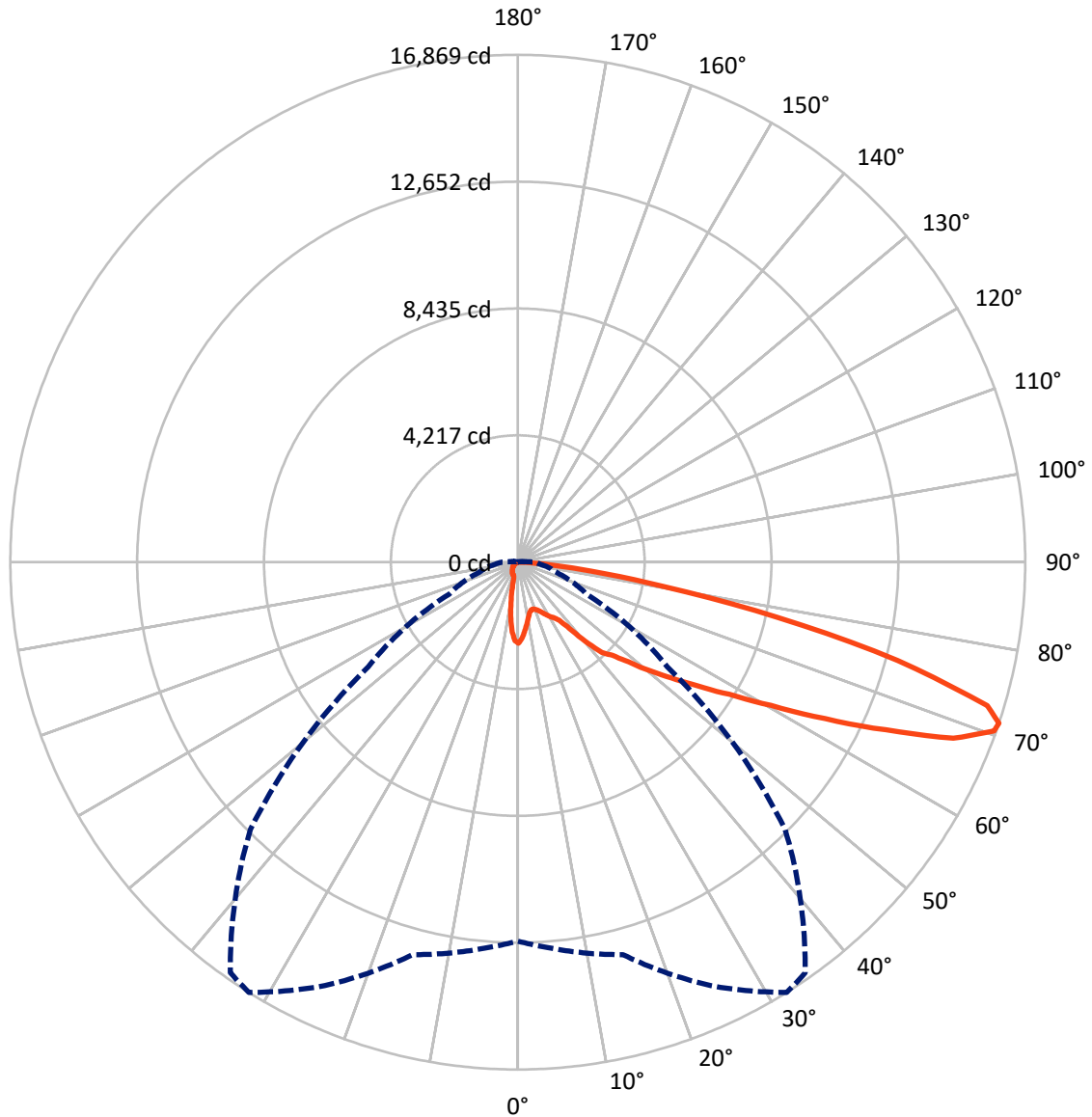
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P453463
CATALOG NUMBER: GALN-SA4C-727-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1402.9	0.0	1402.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15346.1	0.0	15346.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	16749.0	0.0	16749.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.0	1.3
10°-20°	475.3	2.8
20°-30°	739.5	4.4
30°-40°	1232.0	7.4
40°-50°	2291.7	13.7
50°-60°	3679.4	22.0
60°-70°	4948.9	29.5
70°-80°	2936.3	17.5
80°-90°	227.0	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°	16749.0	100.0
0°-180°	16749.0	100.0



REPORT NUMBER: P453463

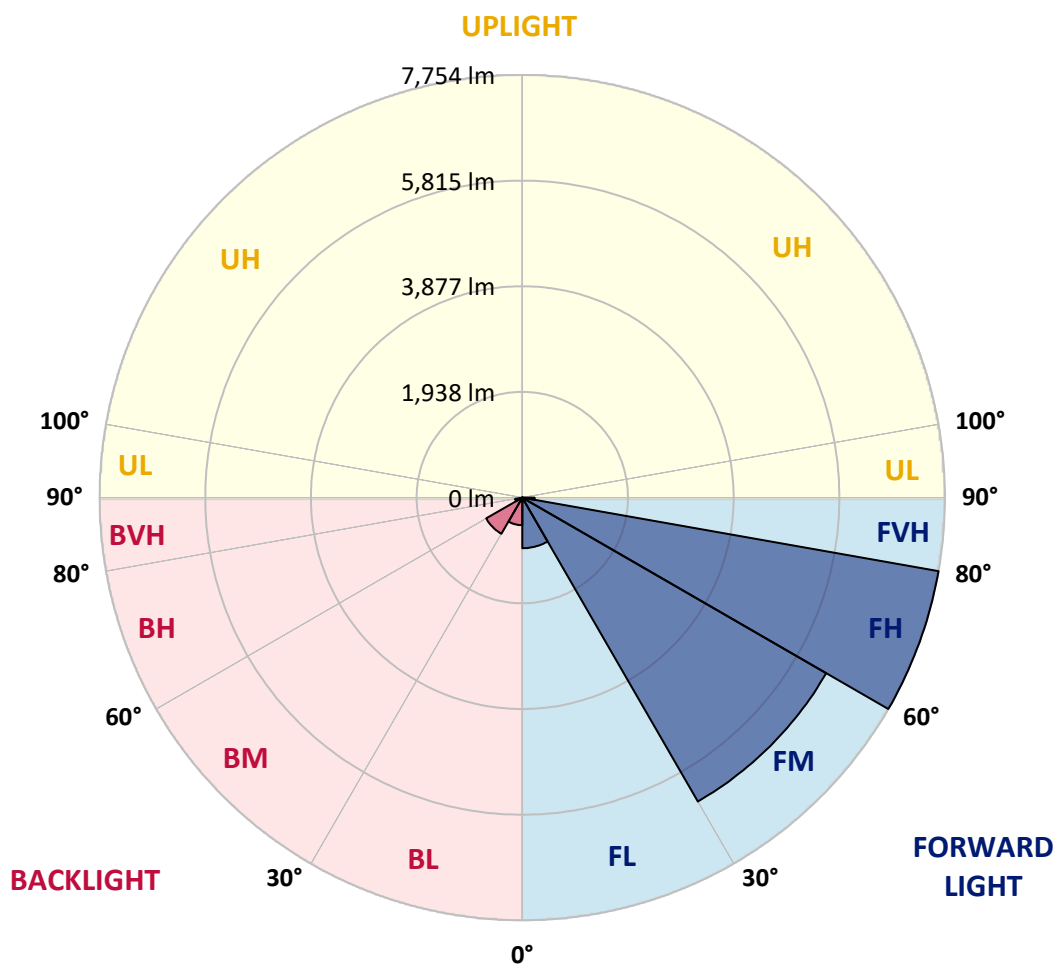
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	928.3	5.5			
FM	(30°-60°)	6437.7	38.4			
FH	(60°-80°)	7754.0	46.3			G4/12000
FVH	(80°-90°)	226.1	1.3			G3/500
BL	(0°-30°)	505.5	3.0	B2/1000		
BM	(30°-60°)	765.3	4.6	B1/1000		
BH	(60°-80°)	131.2	0.8	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G4

Type IV Short





REPORT NUMBER: P453463

CATALOG NUMBER: GALN-SA4C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5
2.5°	2498.1	2523.8	2519.9	2528.9	2550.8	2559.8	2584.2	2611.2	2648.5	2674.2	2690.9
5°	2237.1	2256.4	2258.9	2303.9	2325.8	2350.2	2422.2	2500.6	2588.1	2657.5	2703.8
7.5°	1958.1	1968.4	1988.9	2048.1	2103.4	2127.8	2237.1	2373.4	2510.9	2640.8	2724.4
10°	1728.0	1739.5	1776.8	1839.8	1891.2	1923.4	2075.1	2246.1	2438.9	2631.8	2753.9
12.5°	1596.8	1603.2	1617.4	1674.0	1739.5	1774.2	1937.5	2132.9	2381.1	2635.6	2804.1
15°	1587.8	1585.2	1568.5	1591.7	1650.8	1686.8	1846.2	2055.8	2329.7	2648.5	2863.2
17.5°	1635.4	1629.0	1589.1	1589.1	1638.0	1667.5	1807.7	2014.7	2303.9	2678.1	2946.8
20°	1708.7	1698.4	1632.8	1627.7	1675.2	1706.1	1830.8	2017.2	2309.1	2733.4	3058.6
22.5°	1801.2	1789.7	1690.7	1693.2	1744.7	1775.5	1897.7	2063.5	2341.2	2801.5	3178.2
25°	1922.1	1909.2	1792.2	1787.1	1841.1	1868.1	1996.7	2145.8	2386.2	2886.4	3335.1
27.5°	2082.8	2055.8	1915.7	1907.9	1965.8	2000.5	2116.2	2256.4	2465.9	3003.3	3545.9
30°	2215.2	2185.7	2051.9	2031.4	2093.1	2120.1	2239.7	2405.5	2622.8	3207.8	3837.8
32.5°	2388.8	2345.1	2188.2	2134.2	2199.8	2234.5	2418.4	2683.2	2855.5	3423.8	4184.9
35°	2779.6	2752.6	2561.1	2372.1	2368.2	2411.9	2681.9	2963.5	3094.6	3760.6	4658.0
37.5°	3338.9	3319.6	3116.5	2863.2	2789.9	2769.4	3002.1	3272.1	3476.5	4223.5	5208.3
40°	3988.2	3943.2	3756.8	3542.1	3446.9	3386.5	3380.1	3731.0	3975.3	4852.2	5781.7
42.5°	4453.6	4371.3	4145.0	4129.6	4109.0	4046.0	3863.5	4402.2	4619.5	5528.4	6395.0
45°	4942.2	4817.4	4480.6	4422.7	4415.0	4411.2	4593.7	5196.7	5321.4	6261.3	7025.0
47.5°	5321.4	5222.4	4946.0	4920.3	4952.4	5039.9	5559.3	6040.1	6014.4	6914.4	7553.4
50°	5826.7	5752.1	5444.9	5493.7	5659.6	5802.3	6648.3	6959.4	6584.0	7428.7	7937.8
52.5°	6423.3	6285.7	6000.3	6132.7	6387.3	6625.1	7804.1	7764.2	6983.8	7815.7	8224.5
55°	6940.1	6842.4	6744.7	6882.2	7262.8	7559.8	8848.1	8367.2	7274.4	8126.8	8350.5
57.5°	7814.4	7791.2	7690.9	7831.1	8292.6	8601.2	9782.7	8835.2	7460.8	8288.8	8202.6
60°	9107.8	9070.5	8884.1	9062.8	9664.5	10149.2	10644.1	9255.6	7503.2	8225.8	7777.1
62.5°	10663.4	10536.2	10376.7	10640.3	11465.7	11679.1	11455.4	9505.0	7345.1	7724.4	6751.1
65°	12116.3	11985.1	11989.0	12544.4	13443.1	13588.4	12401.7	9467.8	6882.2	6468.3	4979.4
67.5°	13228.4	13206.5	13363.4	14447.2	15622.3	15522.0	13247.7	8909.8	5510.4	4192.6	2645.9
70°	13284.9	13327.4	13777.4	15606.9	16800.0	16640.6	13175.7	7242.2	3435.3	1928.5	1042.7
71°	12601.0	12886.4	13508.6	15570.9	16869.4	16662.4	12568.8	6065.8	2519.9	1344.8	752.1
72.5°	10738.0	10888.4	12233.3	14654.2	16320.4	15878.2	11029.9	4251.7	1613.5	822.8	432.0
75°	5914.1	6284.4	8192.4	11496.6	13053.5	12665.2	7188.2	2019.8	804.8	450.0	178.7
77.5°	2815.6	2743.6	3997.2	6837.2	8850.6	8830.1	3621.8	897.4	469.3	304.7	90.0
80°	804.8	905.1	1530.0	3250.2	4913.9	4967.9	1391.1	433.3	325.3	237.9	46.3
82.5°	243.0	248.1	561.8	1437.4	2444.1	2303.9	522.0	221.1	234.0	189.0	27.0
85°	42.4	52.7	165.9	506.6	932.1	707.1	131.1	105.4	154.3	124.7	15.4
87.5°	2.6	3.9	55.3	57.9	82.3	47.6	23.1	15.4	33.4	33.4	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453463

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5	2693.5
2.5°	2702.5	2710.2	2705.1	2693.5	2674.2	2651.1	2620.2	2594.5	2572.6	2561.1	2575.2
5°	2719.2	2729.5	2703.8	2645.9	2558.5	2463.4	2355.4	2271.8	2206.2	2185.7	2177.9
7.5°	2744.9	2751.4	2681.9	2553.4	2368.2	2143.2	1946.5	1780.7	1652.1	1613.5	1557.0
10°	2778.4	2774.5	2643.4	2404.2	2078.9	1740.8	1436.1	1209.8	1038.8	977.1	972.0
12.5°	2829.8	2809.2	2594.5	2201.1	1734.4	1292.1	915.4	716.1	608.1	572.1	564.4
15°	2894.1	2845.2	2517.4	1963.2	1328.1	834.4	564.4	504.0	489.8	487.3	484.7
17.5°	2969.9	2892.8	2415.8	1671.4	933.4	541.3	471.8	470.6	471.8	469.3	468.0
20°	3072.8	2942.9	2294.9	1325.5	617.1	456.4	450.0	450.0	451.3	450.0	450.0
22.5°	3182.1	3002.1	2145.8	1011.8	465.4	433.3	432.0	434.6	437.1	435.8	435.8
25°	3317.1	3079.2	1949.1	693.0	416.6	414.0	415.3	420.4	425.6	426.8	425.6
27.5°	3512.5	3174.3	1738.2	477.0	381.8	384.4	397.3	410.1	417.8	419.1	419.1
30°	3732.3	3279.8	1463.1	387.0	353.6	353.6	369.0	393.4	410.1	412.7	414.0
32.5°	4015.2	3401.9	1158.4	348.4	326.6	324.0	338.1	367.7	398.6	407.6	407.6
35°	4364.9	3545.9	861.4	324.0	307.3	300.8	308.6	333.0	372.8	398.6	401.1
37.5°	4775.0	3682.2	630.0	302.1	289.3	280.3	285.4	304.7	336.8	375.4	385.7
40°	5154.3	3803.0	470.6	284.1	271.3	264.9	268.7	277.7	304.7	340.7	347.1
42.5°	5568.3	3896.9	374.1	264.9	253.3	250.7	250.7	254.6	272.6	293.1	294.4
45°	5981.0	3930.3	313.7	241.7	234.0	236.6	235.3	232.7	240.4	237.9	237.9
47.5°	6275.4	3890.5	259.7	219.9	219.9	223.7	217.3	208.3	204.4	189.0	190.3
50°	6477.3	3745.2	213.4	194.1	204.4	209.6	196.7	182.6	168.4	151.7	147.9
52.5°	6560.8	3486.8	174.9	160.7	181.3	187.7	172.3	155.6	133.7	119.6	115.7
55°	6506.8	3167.9	145.3	131.1	153.0	160.7	145.3	126.0	101.6	86.1	83.6
57.5°	6269.0	2787.4	123.4	104.1	122.1	127.3	117.0	96.4	72.0	56.6	56.6
60°	5857.6	2393.9	100.3	82.3	91.3	99.0	88.7	69.4	48.9	34.7	32.1
62.5°	5023.2	1943.9	81.0	64.3	64.3	70.7	61.7	50.1	30.9	18.0	16.7
65°	3626.9	1333.3	64.3	47.6	46.3	46.3	38.6	33.4	18.0	7.7	5.1
67.5°	1970.9	752.1	51.4	36.0	32.1	30.9	24.4	19.3	7.7	1.3	0.0
70°	775.3	289.3	39.9	24.4	20.6	19.3	12.9	9.0	5.1	0.0	0.0
71°	525.8	199.3	34.7	20.6	16.7	14.1	10.3	7.7	3.9	0.0	0.0
72.5°	300.8	123.4	27.0	15.4	12.9	10.3	7.7	5.1	3.9	0.0	0.0
75°	131.1	63.0	16.7	11.6	9.0	6.4	5.1	3.9	1.3	0.0	0.0
77.5°	66.9	34.7	11.6	9.0	5.1	3.9	2.6	1.3	0.0	0.0	0.0
80°	37.3	18.0	7.7	5.1	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	20.6	10.3	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.9	6.4	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.6	0.0	0.0	0.0	0.0	1.3	1.3	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)