

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: P950220

Luminaire Tested: **GALN-SB4D-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-727-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38530 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 293.6
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



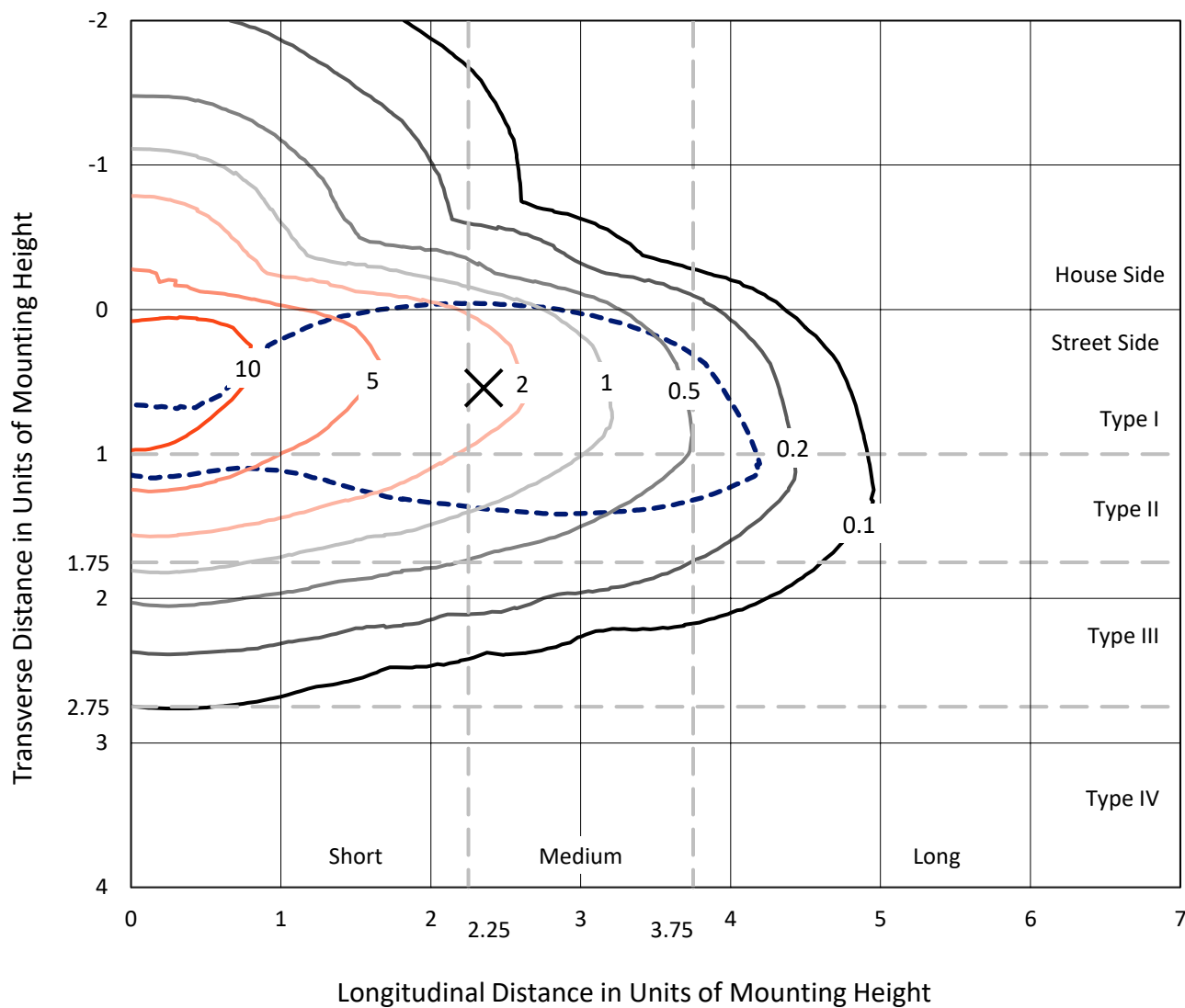
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

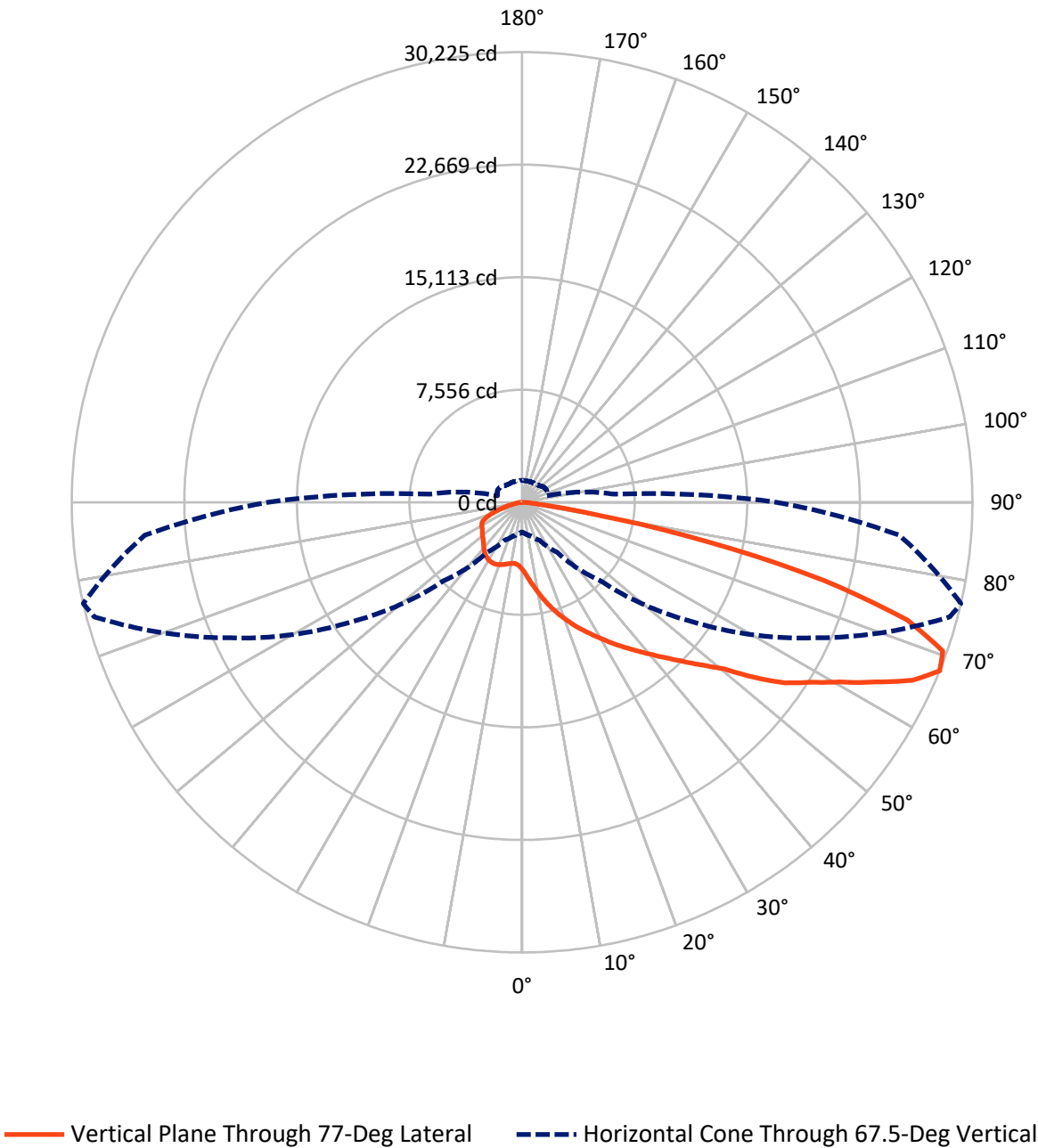
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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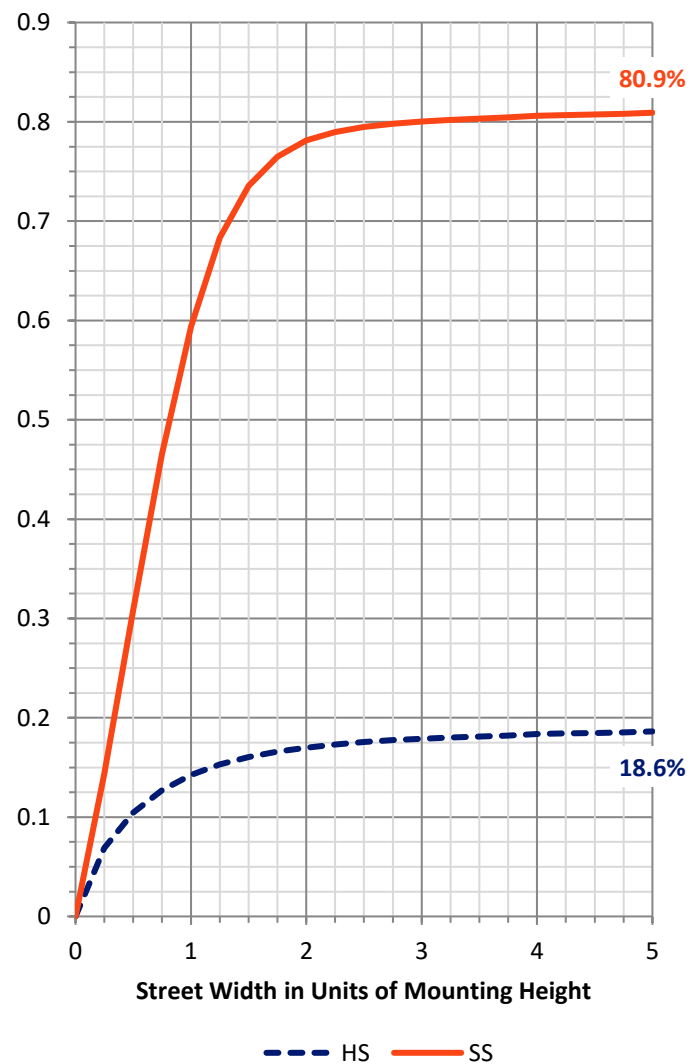
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7288.3	0.0	7288.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	31241.7	0.0	31241.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	38530.0	0.0	38530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.6	1.3
10°-20°	1740.9	4.5
20°-30°	3286.9	8.5
30°-40°	5295.1	13.7
40°-50°	7242.8	18.8
50°-60°	8169.9	21.2
60°-70°	7625.6	19.8
70°-80°	4180.1	10.8
80°-90°	504.2	1.3
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°	38530.0	100.0
0°-180°	38530.0	100.0

Coefficient of Utilization



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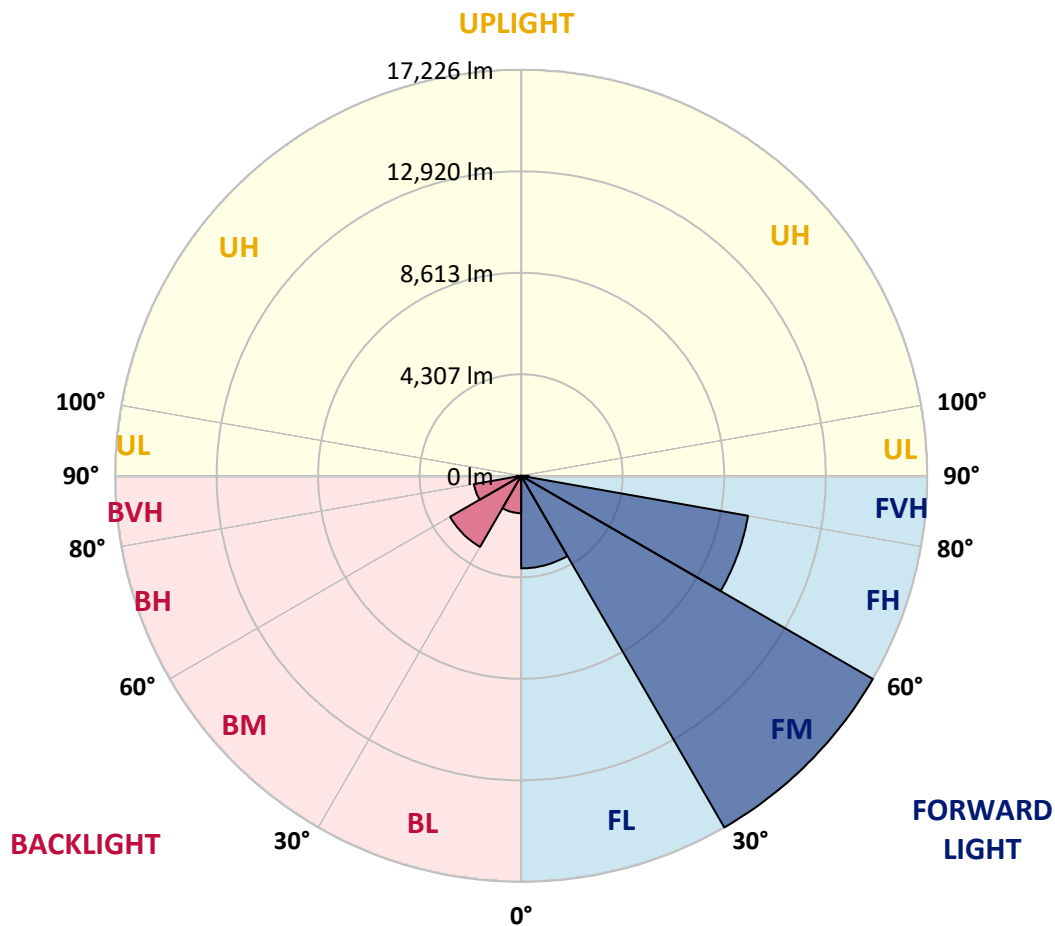
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3927.7	10.2			
FM	(30°-60°)	17226.3	44.7			
FH	(60°-80°)	9772.3	25.4			G4/12000
FVH	(80°-90°)	315.3	0.8			G3/500
BL	(0°-30°)	1584.7	4.1	B3/2500		
BM	(30°-60°)	3481.5	9.0	B3/5000		
BH	(60°-80°)	2033.3	5.3	B3/2500		G3/2500
BVH	(80°-90°)	188.9	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8
2.5°	5660.4	5700.2	5650.5	5650.5	5483.4	5395.9	5228.8	5101.5	4872.8	4833.0	4681.9
5°	6690.7	6740.4	6670.8	6640.9	6444.0	6263.0	5982.6	5706.1	5298.4	5256.7	4900.6
7.5°	7488.2	7551.8	7490.2	7458.4	7283.3	7080.5	6752.3	6366.5	5791.7	5710.1	5195.0
10°	8138.6	8148.5	8128.6	8140.6	8003.3	7836.3	7500.1	7050.6	6332.7	6221.3	5551.0
12.5°	8506.5	8552.3	8592.0	8663.6	8639.8	8536.4	8234.0	7697.0	6905.5	6762.3	5938.9
15°	8679.6	8759.1	8848.6	9013.7	9146.9	9172.8	8942.1	8391.2	7488.2	7315.2	6330.7
17.5°	8741.2	8816.8	8958.0	9196.7	9483.1	9676.0	9572.6	9065.4	8065.0	7866.1	6742.4
20°	9053.5	9075.3	9160.9	9387.6	9697.9	10018.1	10095.6	9713.8	8635.8	8411.1	7168.0
22.5°	9721.7	9678.0	9701.8	9805.3	10028.0	10338.3	10515.3	10286.6	9222.5	8964.0	7597.6
25°	10825.6	10698.3	10571.0	10451.7	10565.0	10740.1	10940.9	10859.4	9837.1	9508.9	8031.2
27.5°	12219.8	12064.7	11784.2	11392.4	11255.2	11316.8	11406.3	11390.4	10405.9	10073.8	8478.7
30°	13592.1	13411.1	13077.0	12510.2	12148.2	11985.1	11917.5	11871.7	11024.5	10670.4	8930.2
32.5°	14688.0	14544.8	14216.6	13582.2	13057.1	12778.7	12553.9	12390.8	11670.9	11316.8	9407.5
35°	15646.7	15513.4	15137.5	14445.4	13874.6	13578.2	13283.9	12935.8	12343.1	11985.1	9920.6
37.5°	16521.8	16388.5	15873.4	15153.4	14578.6	14373.8	14111.2	13520.5	13017.3	12679.2	10463.6
40°	17074.7	17044.9	16563.5	15748.1	15151.4	15050.0	14962.5	14198.7	13765.2	13450.9	11060.3
42.5°	17215.9	17281.5	16899.7	16229.4	15660.6	15579.0	15783.9	14966.5	14604.5	14304.2	11736.5
45°	16875.8	17064.7	16814.1	16358.7	16022.6	15978.8	16511.8	15805.8	15533.3	15258.8	12551.9
47.5°	16014.6	16334.8	16231.4	16167.8	16120.0	16309.0	17152.3	16696.8	16585.4	16346.8	13482.7
50°	14276.3	14882.9	15063.9	15465.7	15927.1	16565.5	17735.0	17669.4	17814.6	17573.9	14616.4
52.5°	11271.1	12106.4	13156.6	14162.9	15334.4	16480.0	18375.4	19065.6	19678.2	19546.9	16418.4
55°	9304.1	9680.0	10487.5	12333.2	14184.8	16120.0	18663.8	20193.3	21527.8	21410.5	17784.7
57.5°	7792.5	8128.6	8625.9	10167.2	12446.5	15302.6	18842.8	20881.4	22794.8	22782.8	19133.2
60°	6171.6	6527.6	7036.7	8128.6	10415.9	13890.5	18803.0	21665.1	24411.7	24511.2	20778.0
62.5°	4341.8	4733.6	5298.4	6316.7	8341.4	12060.7	17991.6	22231.9	26315.1	26585.6	22757.0
65°	2854.1	3112.6	3538.3	4417.3	6215.3	9707.8	16442.2	22305.5	28351.7	28809.2	24614.6
67.5°	2000.8	2100.3	2350.9	2828.2	4097.1	7444.4	13974.0	21543.7	29710.2	30225.3	25420.1
70°	1561.3	1611.0	1738.3	1929.2	2573.6	5006.1	10708.2	19562.8	29419.8	29956.8	24578.8
72.5°	1348.5	1396.2	1443.9	1467.8	1726.4	3090.7	7253.5	16356.7	26685.0	27049.0	21370.7
75°	1223.2	1235.1	1274.9	1266.9	1316.7	2004.8	4186.6	11917.5	21054.5	20929.2	15775.9
77.5°	1028.3	1044.2	1109.8	1099.9	1169.5	1370.4	2173.9	7691.1	13649.8	12798.6	8781.0
80°	871.1	879.1	950.7	938.8	1016.3	992.5	1109.8	3920.1	5789.7	4904.6	2531.9
82.5°	302.3	373.9	725.9	747.8	775.7	600.6	640.4	1599.1	1768.1	1354.4	531.0
85°	147.2	157.1	369.9	525.1	523.1	302.3	312.3	570.8	556.9	437.6	177.0
87.5°	23.9	29.8	43.8	204.9	163.1	79.6	107.4	111.4	115.4	99.4	39.8
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°	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8	4520.8
2.5°	4570.5	4471.0	4262.2	4069.3	3918.1	3772.9	3691.4	3621.8	3582.0	3574.1	3574.1
5°	4693.8	4488.9	4109.1	3788.9	3580.0	3424.9	3343.3	3291.6	3265.8	3249.9	3247.9
7.5°	4870.8	4570.5	4029.5	3665.5	3446.8	3335.4	3293.6	3285.7	3283.7	3285.7	3291.6
10°	5115.4	4703.7	4021.6	3635.7	3452.7	3391.1	3389.1	3391.1	3399.0	3401.0	3403.0
12.5°	5380.0	4841.0	4053.4	3661.6	3528.3	3494.5	3488.5	3486.5	3492.5	3496.5	3498.5
15°	5668.4	5022.0	4107.1	3717.3	3611.8	3576.0	3570.1	3558.1	3556.2	3554.2	3552.2
17.5°	5964.7	5201.0	4166.7	3776.9	3665.5	3615.8	3593.9	3566.1	3544.2	3538.3	3544.2
20°	6265.0	5378.0	4208.5	3806.8	3669.5	3599.9	3556.2	3508.4	3470.6	3448.7	3456.7
22.5°	6585.2	5562.9	4234.4	3798.8	3633.7	3538.3	3458.7	3403.0	3345.3	3307.5	3309.5
25°	6897.5	5724.0	4232.4	3757.0	3564.1	3442.8	3341.3	3269.7	3190.2	3150.4	3150.4
27.5°	7197.8	5869.2	4182.7	3683.4	3464.7	3329.4	3208.1	3122.6	3045.0	3007.2	3005.2
30°	7508.1	5990.6	4105.1	3576.0	3347.3	3198.1	3064.9	2991.3	2921.7	2885.9	2883.9
32.5°	7816.4	6101.9	3995.7	3442.8	3212.1	3068.9	2937.6	2870.0	2828.2	2828.2	2830.2
35°	8142.5	6179.5	3850.5	3287.6	3068.9	2931.6	2828.2	2788.4	2784.5	2760.6	2754.6
37.5°	8486.6	6229.2	3673.5	3128.5	2927.7	2798.4	2766.6	2718.8	2679.0	2627.3	2619.4
40°	8848.6	6279.0	3460.7	2963.5	2778.5	2706.9	2693.0	2629.3	2516.0	2388.7	2370.8
42.5°	9288.2	6312.8	3239.9	2798.4	2621.4	2597.5	2617.4	2508.0	2327.0	2231.5	2233.5
45°	9797.3	6368.5	3037.0	2635.3	2460.3	2460.3	2543.8	2400.6	2251.4	2191.8	2201.7
47.5°	10457.6	6497.7	2848.1	2456.3	2311.1	2350.9	2380.7	2271.3	2187.8	2114.2	2112.2
50°	11412.3	6808.0	2653.2	2275.3	2197.7	2277.3	2235.5	2171.9	2074.4	2014.8	2008.8
52.5°	12597.7	6991.0	2480.2	2112.2	2100.3	2179.8	2120.2	2060.5	1986.9	1907.4	1891.4
55°	13405.2	7024.8	2335.0	1992.9	2034.6	2026.7	2004.8	1951.1	1911.3	1805.9	1807.9
57.5°	14308.1	7092.4	2215.6	1921.3	1992.9	1905.4	1897.4	1851.7	1800.0	1728.4	1704.5
60°	15388.1	7197.8	2112.2	1893.4	1957.1	1825.8	1786.0	1768.1	1716.4	1680.6	1690.6
62.5°	16565.5	7293.3	2006.8	1897.4	1915.3	1748.2	1688.6	1682.6	1650.8	1638.9	1638.9
65°	17369.0	7032.7	1875.5	1893.4	1849.7	1668.7	1593.1	1591.1	1565.3	1561.3	1559.3
67.5°	17088.6	6207.4	1698.5	1837.7	1782.1	1589.1	1505.6	1497.6	1463.8	1465.8	1465.8
70°	15684.5	5029.9	1453.9	1700.5	1698.5	1517.5	1414.1	1388.3	1342.5	1350.5	1358.4
72.5°	13051.2	3727.2	1125.7	1471.8	1565.3	1451.9	1308.7	1266.9	1209.3	1217.2	1215.2
75°	9425.4	2533.9	819.4	1119.7	1362.4	1374.3	1205.3	1133.7	1064.1	1076.0	1080.0
77.5°	4823.1	1436.0	602.6	771.7	1070.0	1249.0	1111.8	1016.3	1000.4	1111.8	1095.9
80°	1573.2	720.0	417.7	541.0	702.1	1022.3	974.6	865.2	861.2	887.0	761.7
82.5°	469.4	304.3	268.5	356.0	387.8	783.6	841.3	654.3	562.9	592.7	612.6
85°	161.1	147.2	153.1	177.0	185.0	459.4	588.7	433.6	409.7	451.5	445.5
87.5°	37.8	51.7	43.8	39.8	39.8	111.4	228.7	181.0	250.6	167.1	161.1
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)