

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: P950203

Luminaire Tested: **GALN-SB4D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34587 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - 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

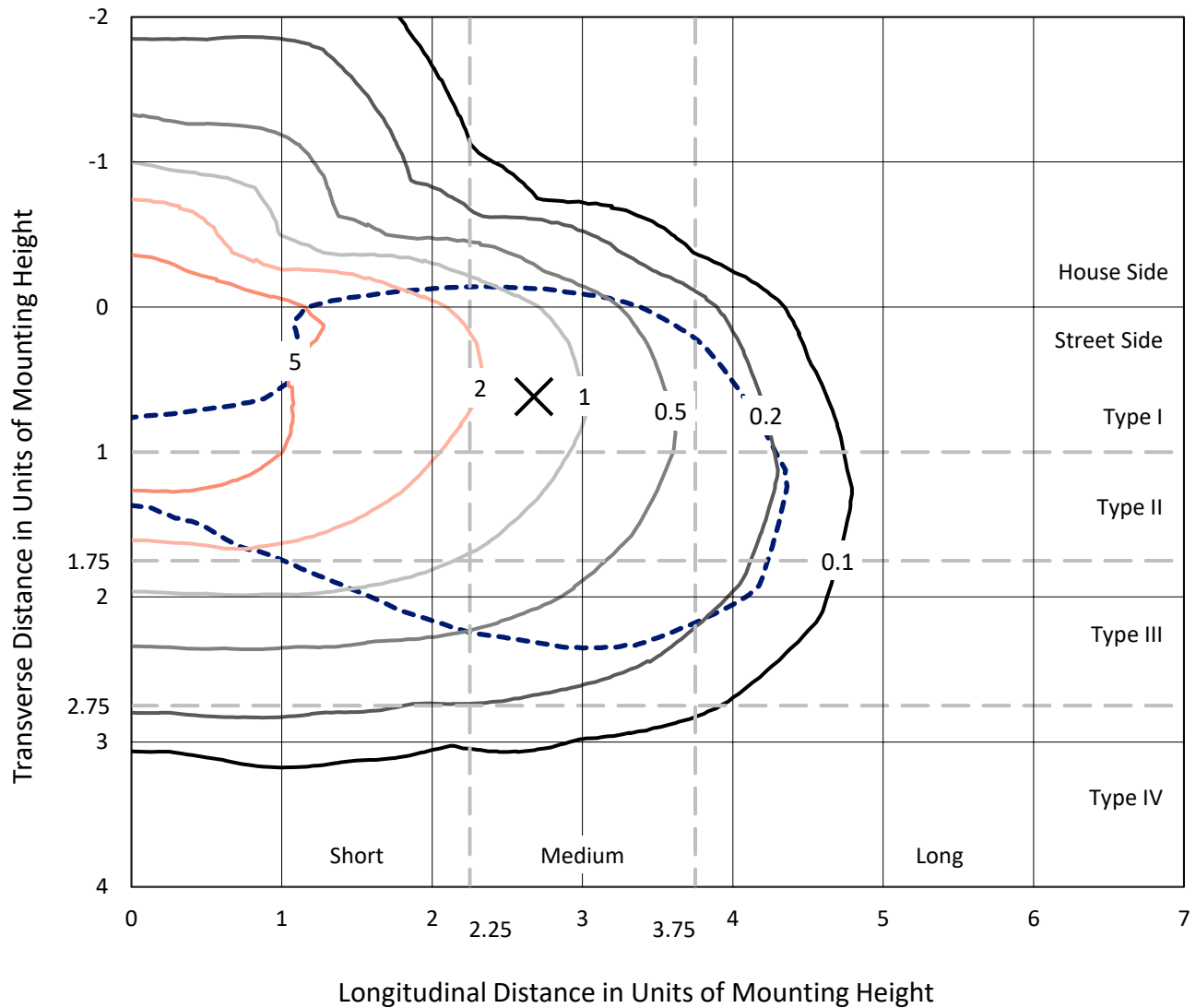


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

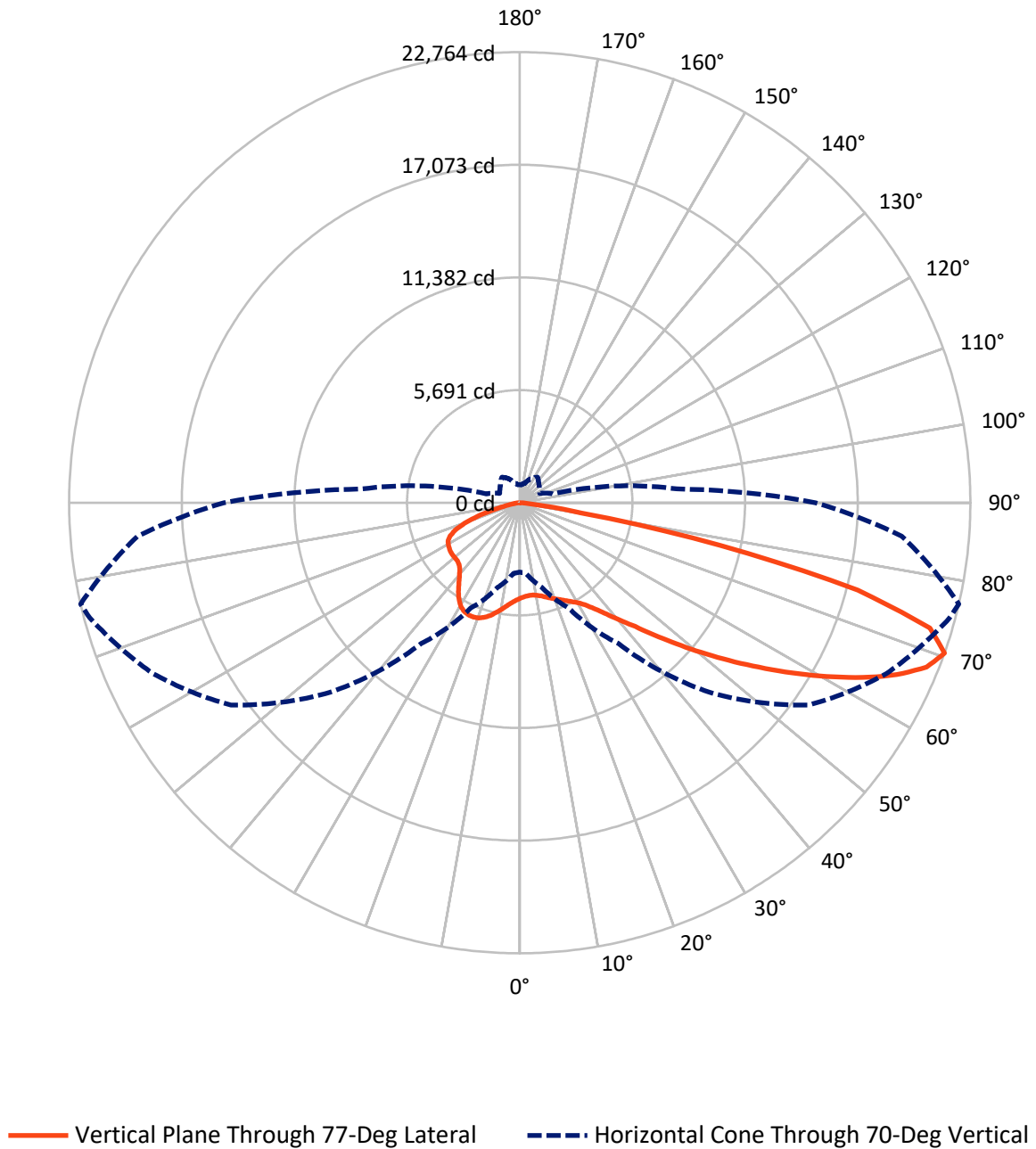


Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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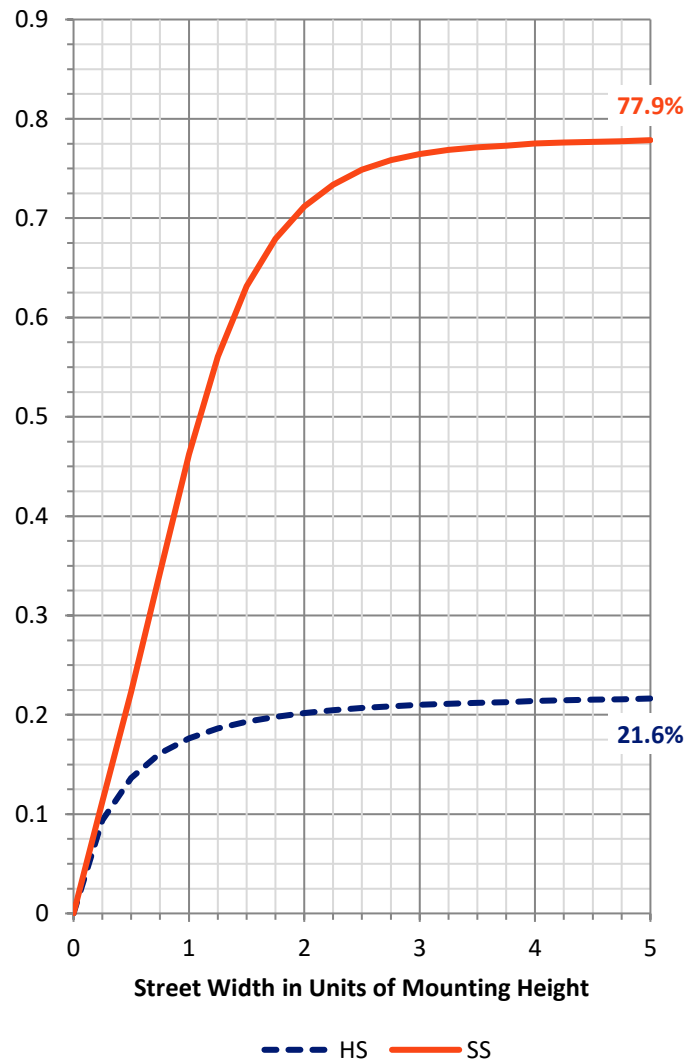
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7574.0	0.0	7574.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	27013.0	0.0	27013.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	34587.0	0.0	34587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	460.2	1.3
10°-20°	1328.2	3.8
20°-30°	2271.4	6.6
30°-40°	3652.6	10.6
40°-50°	5702.6	16.5
50°-60°	7617.3	22.0
60°-70°	8118.9	23.5
70°-80°	4997.9	14.5
80°-90°	438.0	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°	34587.0	100.0
0°-180°	34587.0	100.0

Coefficient of Utilization



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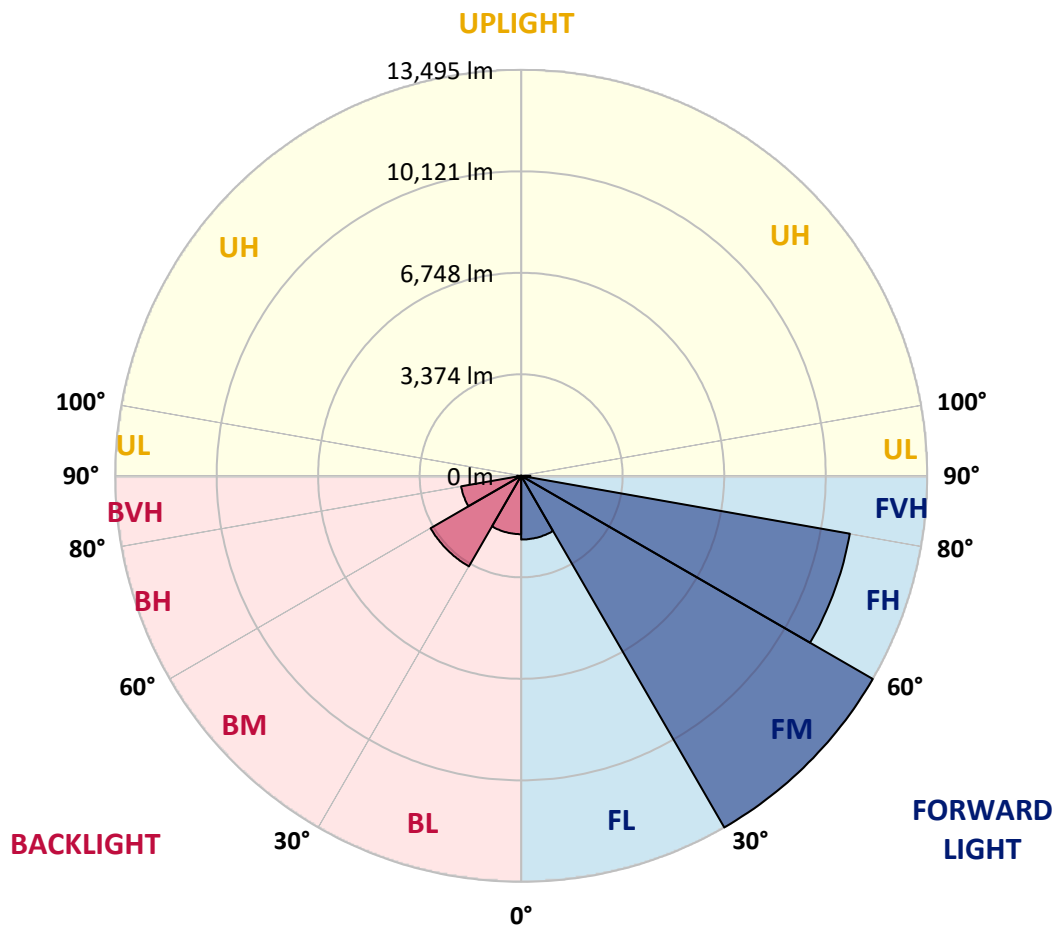
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2119.0	6.1			
FM	(30°-60°)	13495.1	39.0			
FH	(60°-80°)	11092.6	32.1			G4/12000
FVH	(80°-90°)	306.2	0.9			G3/500
BL	(0°-30°)	1940.7	5.6	B3/2500		
BM	(30°-60°)	3477.4	10.1	B3/5000		
BH	(60°-80°)	2024.2	5.9	B3/2500		G3/2500
BVH	(80°-90°)	131.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2
2.5°	4447.9	4446.1	4469.2	4476.2	4518.8	4548.9	4605.6	4665.8	4743.7	4752.6	4800.4
5°	4191.1	4191.1	4217.6	4246.0	4300.9	4361.1	4447.9	4552.4	4687.0	4708.3	4827.0
7.5°	3973.2	3987.3	4010.4	4065.3	4129.1	4215.9	4348.7	4497.5	4674.6	4708.3	4899.6
10°	3797.8	3813.8	3842.1	3886.4	3982.0	4102.5	4276.1	4467.4	4704.7	4757.9	5005.9
12.5°	3742.9	3758.8	3774.8	3808.4	3897.0	4038.7	4246.0	4481.6	4777.4	4830.5	5151.1
15°	3870.4	3889.9	3877.5	3868.7	3914.7	4044.0	4260.1	4532.9	4867.7	4943.9	5330.0
17.5°	4164.5	4171.6	4143.2	4060.0	4052.9	4122.0	4327.4	4603.8	4981.1	5064.3	5510.7
20°	4639.2	4626.8	4568.4	4403.6	4309.7	4295.6	4442.6	4710.1	5098.0	5186.6	5705.6
22.5°	5284.0	5269.8	5152.9	4892.5	4683.5	4545.3	4609.1	4848.2	5229.1	5328.3	5895.1
25°	6088.2	6068.7	5896.9	5542.6	5218.4	4876.6	4835.8	5030.7	5390.3	5482.4	6093.5
27.5°	7027.0	7011.1	6825.1	6357.4	5889.8	5330.0	5117.5	5245.0	5558.5	5663.1	6316.7
30°	8036.7	8082.7	7753.3	7250.2	6658.6	5921.7	5496.5	5508.9	5776.4	5870.3	6587.7
32.5°	9223.5	9303.2	8906.4	8268.7	7461.0	6564.7	5974.8	5877.4	6093.5	6171.4	6929.6
35°	10399.7	10490.0	10160.6	9455.6	8525.6	7322.8	6474.3	6300.8	6515.1	6600.1	7383.1
37.5°	11416.5	11536.9	11366.9	10754.0	9664.6	8236.9	7126.2	6798.5	7034.1	7140.4	7992.4
40°	12218.9	12403.1	12390.7	12008.1	11007.3	9345.7	7953.4	7413.2	7678.9	7794.0	8731.1
42.5°	12870.7	13030.2	13168.3	13148.9	12408.4	10605.2	8925.9	8212.1	8414.0	8546.8	9561.8
45°	13320.7	13490.7	13788.3	14108.9	13756.4	11953.2	10040.1	9159.7	9344.0	9544.1	10552.0
47.5°	13722.8	13915.9	14302.0	14810.4	14900.7	13306.5	11260.6	10263.3	10431.6	10638.8	11545.8
50°	13758.2	13924.7	14523.4	15244.4	15713.8	14606.7	12571.4	11501.5	11659.1	11880.6	12610.4
52.5°	12902.6	13164.8	14209.9	15232.0	16087.5	15694.3	13873.3	12789.3	12966.4	13232.1	13712.1
55°	10015.3	10399.7	13290.6	14757.3	15954.7	16397.5	15111.5	14158.5	14385.3	14663.4	14821.0
57.5°	8626.6	8794.8	10550.3	13892.8	15348.9	16580.0	16156.6	15542.0	15906.9	16211.5	15993.7
60°	7753.3	7893.2	8931.2	12548.4	14551.8	16291.3	16964.4	16831.5	17462.1	17825.3	17192.9
62.5°	6818.0	6950.8	7895.0	10477.6	13531.5	15811.2	17474.5	18021.9	19056.4	19453.1	18323.0
65°	5889.8	6003.2	6908.3	8803.7	12234.8	15331.2	17738.5	19051.0	20531.9	20942.9	19261.8
67.5°	4855.3	4949.2	5804.8	7427.3	10658.3	14674.0	17869.5	19860.6	21816.1	22168.7	19725.9
70°	3503.8	3576.4	4460.3	5873.9	8679.7	13543.9	17816.4	20434.5	22482.2	22763.8	19375.2
72.5°	1656.2	1721.8	2759.8	3813.8	6130.7	11343.8	16741.2	19979.2	21805.5	21665.6	17228.3
75°	883.9	940.6	1585.4	2092.0	3238.1	7776.3	13699.7	17210.6	18310.6	17630.4	12732.6
77.5°	598.7	643.0	981.3	1255.9	1479.1	3691.5	8805.5	11916.0	11464.3	10341.2	6376.9
80°	474.7	520.8	804.2	850.3	715.6	1333.8	3638.4	5516.0	3962.5	3169.0	1813.9
82.5°	364.9	416.3	676.7	616.4	389.7	547.4	1059.3	1744.8	1015.0	772.3	439.3
85°	223.2	278.1	531.4	393.2	219.6	249.8	359.6	485.4	310.0	258.6	157.7
87.5°	113.4	159.4	269.2	143.5	99.2	58.5	95.7	95.7	81.5	70.9	40.7
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°	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2	4825.2
2.5°	4842.9	4878.3	4938.6	4995.3	5039.5	5082.1	5124.6	5147.6	5154.7	5183.0	5199.0
5°	4899.6	4965.1	5082.1	5191.9	5261.0	5303.5	5333.6	5351.3	5354.8	5363.7	5377.9
7.5°	5004.1	5108.6	5271.6	5381.4	5432.8	5429.2	5416.8	5372.6	5354.8	5338.9	5342.4
10°	5151.1	5289.3	5489.5	5565.6	5533.7	5448.7	5338.9	5209.6	5149.4	5090.9	5073.2
12.5°	5333.6	5508.9	5705.6	5702.0	5544.4	5326.5	5071.4	4873.0	4747.3	4656.9	4635.7
15°	5555.0	5756.9	5907.5	5787.1	5441.6	5050.2	4676.4	4417.8	4304.4	4205.2	4194.6
17.5°	5783.5	5999.6	6068.7	5760.5	5183.0	4641.0	4217.6	4013.9	3902.3	3849.2	3865.1
20°	6006.7	6221.0	6164.4	5608.1	4789.8	4176.9	3799.6	3688.0	3665.0	3677.4	3672.0
22.5°	6242.3	6433.6	6183.8	5314.1	4288.5	3702.2	3494.9	3498.4	3549.8	3587.0	3595.9
25°	6483.2	6612.5	6132.5	4889.0	3750.0	3353.2	3301.8	3358.5	3459.5	3532.1	3551.6
27.5°	6715.2	6771.9	6020.9	4362.9	3287.7	3103.4	3112.3	3229.2	3381.5	3482.5	3507.3
30°	6977.4	6913.6	5806.5	3771.2	2967.0	2889.1	2963.5	3099.9	3252.2	3342.6	3363.8
32.5°	7273.2	7035.9	5466.4	3223.9	2740.3	2717.3	2839.5	2928.1	2995.4	3022.0	3036.1
35°	7641.7	7207.7	5030.7	2839.5	2536.6	2591.5	2708.4	2664.1	2637.6	2623.4	2637.6
37.5°	8119.9	7439.7	4520.5	2589.7	2371.9	2501.2	2549.0	2410.8	2306.3	2254.9	2267.3
40°	8695.6	7779.8	4029.9	2396.7	2267.3	2423.2	2340.0	2173.5	2040.6	1968.0	1973.3
42.5°	9335.1	8135.9	3617.1	2251.4	2208.9	2359.5	2185.9	1987.5	1773.1	1750.1	1773.1
45°	10006.4	8502.6	3335.5	2139.8	2180.6	2304.5	2097.3	1776.7	1624.3	1718.2	1767.8
47.5°	10677.8	8839.1	3165.4	2056.6	2166.4	2242.5	2019.4	1659.8	1551.7	1688.1	1751.9
50°	11425.3	9140.3	3089.3	1996.3	2150.4	2217.8	1902.4	1629.7	1475.5	1565.9	1633.2
52.5°	12167.5	9374.1	3032.6	1936.1	2127.4	2198.3	1845.8	1594.2	1383.4	1388.8	1425.9
55°	12907.9	9526.4	2970.6	1856.4	2076.0	2155.8	1840.4	1555.3	1314.4	1289.6	1307.3
57.5°	13698.0	9613.2	2894.4	1767.8	1987.5	2047.7	1835.1	1525.1	1293.1	1252.4	1257.7
60°	14502.2	9740.7	2795.2	1659.8	1868.8	1918.4	1822.7	1514.5	1280.7	1211.6	1216.9
62.5°	15223.1	9785.0	2676.5	1557.0	1716.5	1790.9	1796.2	1505.7	1247.0	1128.4	1128.4
65°	15696.1	9593.7	2469.3	1440.1	1551.7	1659.8	1744.8	1475.5	1186.8	1068.1	1068.1
67.5°	15676.6	9048.1	2145.1	1289.6	1392.3	1514.5	1670.4	1424.2	1114.2	993.7	999.1
70°	14946.8	7971.1	1734.2	1114.2	1216.9	1358.6	1574.7	1348.0	1027.4	912.3	922.9
72.5°	12819.4	6238.8	1259.4	908.7	1013.2	1197.4	1450.7	1255.9	938.8	839.6	834.3
75°	9158.0	3948.4	853.8	697.9	788.3	1015.0	1296.6	1147.8	857.3	843.2	795.3
77.5°	4678.2	1886.5	565.1	510.2	549.1	800.7	1089.4	1025.6	869.7	696.1	620.0
80°	1521.6	696.1	356.0	347.2	364.9	533.2	843.2	841.4	658.9	473.0	418.0
82.5°	485.4	299.4	232.0	223.2	214.3	334.8	588.1	666.0	444.6	299.4	297.6
85°	193.1	178.9	136.4	125.8	90.3	157.7	308.2	442.8	331.2	216.1	221.4
87.5°	70.9	70.9	37.2	26.6	19.5	53.1	83.3	132.9	189.5	111.6	109.8
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)