

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: P955203

Luminaire Tested: **GALN-SB8B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955203
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37541 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

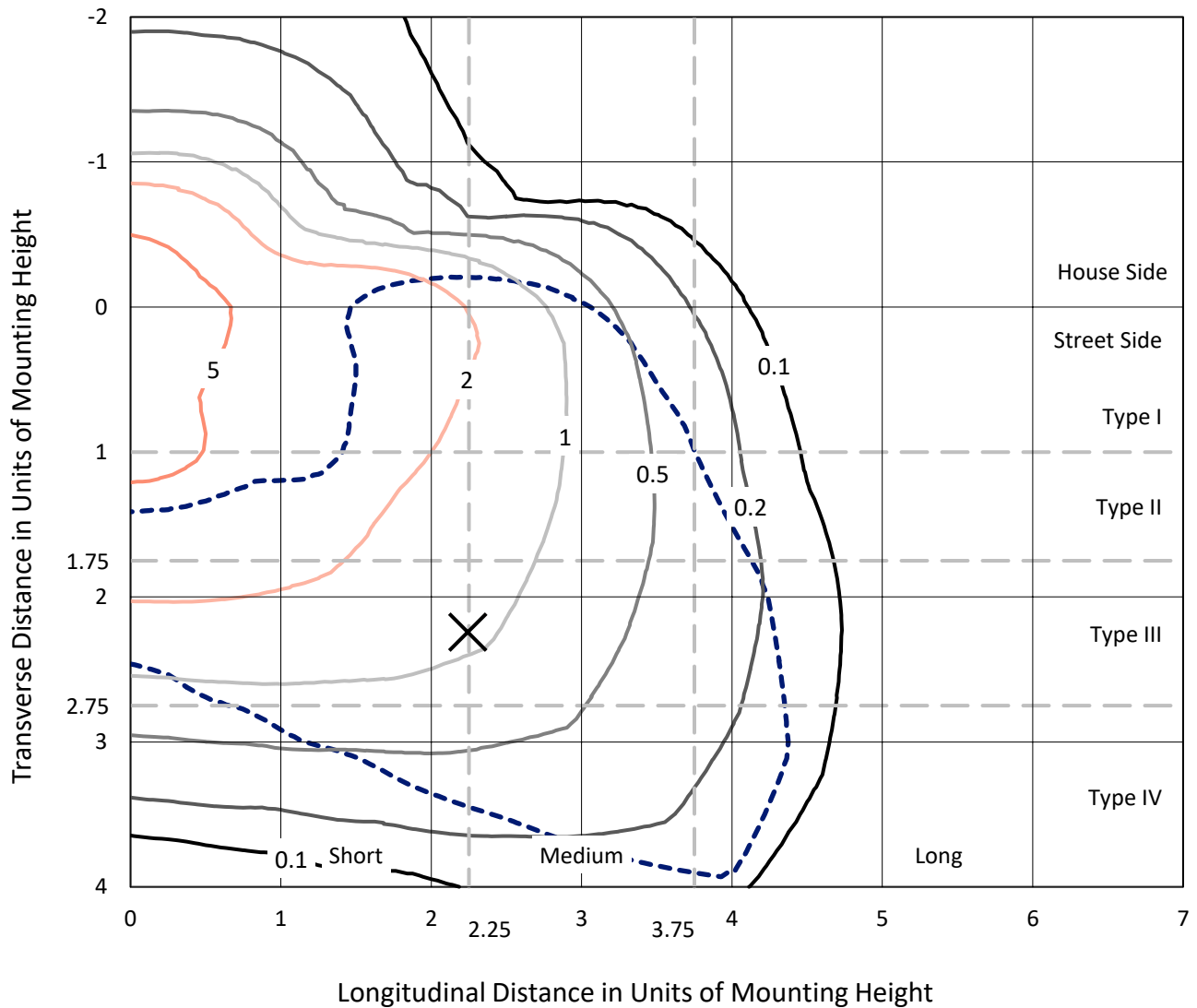
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

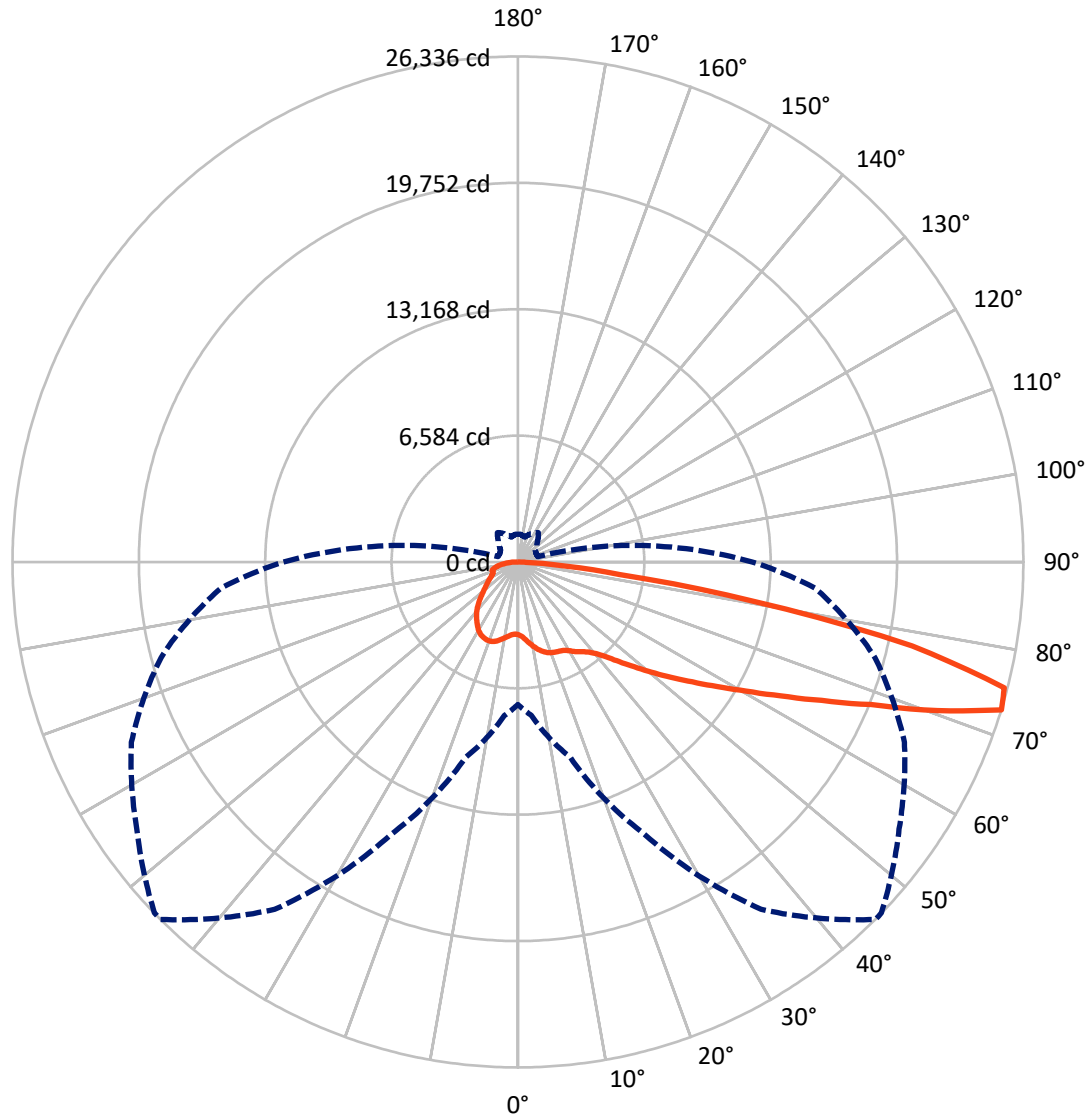
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type IV - Short - N/A

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CATALOG NUMBER: GALN-SB8B-722-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8486.7	0.0	8486.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	29054.3	0.0	29054.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	37541.0	0.0	37541.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.5	1.0
10°-20°	1285.2	3.4
20°-30°	2235.6	6.0
30°-40°	3204.9	8.5
40°-50°	4512.7	12.0
50°-60°	6912.1	18.4
60°-70°	10013.2	26.7
70°-80°	7996.1	21.3
80°-90°	995.9	2.7
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°	37541.0	100.0
0°-180°	37541.0	100.0



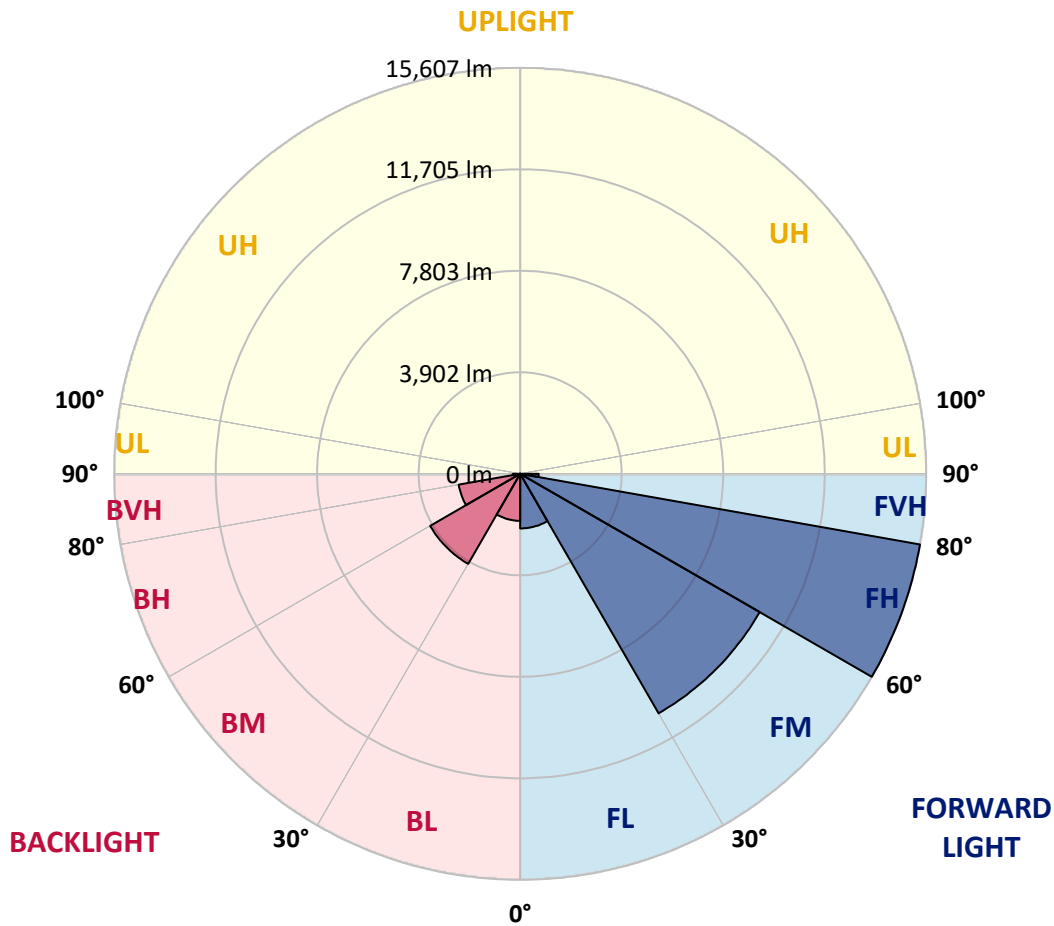
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2099.3	5.6			
FM (30°-60°)	10633.6	28.3			
FH (60°-80°)	15606.9	41.6			G5
FVH (80°-90°)	714.5	1.9			G4/750
BL (0°-30°)	1806.9	4.8	B3/2500		
BM (30°-60°)	3996.0	10.6	B3/5000		
BH (60°-80°)	2402.4	6.4	B3/2500		G3/2500
BVH (80°-90°)	281.4	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2
2.5°	3935.5	3961.2	3937.5	3915.7	3905.8	3880.1	3878.1	3862.3	3852.4	3824.7	3816.8
5°	4210.4	4244.0	4204.4	4160.9	4121.4	4058.1	4050.2	4004.7	3953.3	3893.9	3860.3
7.5°	4520.9	4550.5	4505.0	4439.8	4370.6	4265.7	4263.8	4180.7	4099.6	3998.8	3941.4
10°	4791.8	4831.3	4770.0	4681.0	4594.0	4475.4	4461.5	4366.6	4263.8	4133.2	4046.2
12.5°	5031.1	5058.8	4999.4	4890.7	4789.8	4671.2	4653.4	4548.5	4433.8	4285.5	4174.8
15°	5220.9	5256.5	5177.4	5060.7	4954.0	4837.3	4821.5	4726.5	4611.8	4455.6	4313.2
17.5°	5345.5	5375.2	5294.1	5163.6	5060.7	4963.8	4952.0	4872.9	4772.0	4613.8	4461.5
20°	5393.0	5424.6	5339.6	5207.1	5112.2	5037.0	5031.1	4973.7	4904.5	4760.1	4605.9
22.5°	5440.5	5470.1	5359.4	5220.9	5137.9	5090.4	5088.4	5050.9	5023.2	4904.5	4754.2
25°	5632.3	5640.2	5491.9	5292.1	5173.5	5131.9	5130.0	5128.0	5139.9	5046.9	4914.4
27.5°	5798.4	5796.4	5669.9	5482.0	5298.1	5211.0	5209.1	5228.8	5266.4	5189.3	5080.5
30°	6041.7	6019.9	5869.6	5673.8	5505.7	5371.2	5359.4	5341.6	5371.2	5309.9	5246.6
32.5°	6557.8	6488.6	6245.3	5897.3	5677.8	5574.9	5559.1	5448.4	5460.2	5422.7	5391.0
35°	7297.4	7206.5	6882.1	6320.5	5891.4	5745.0	5737.1	5596.7	5573.0	5539.3	5551.2
37.5°	8177.5	8064.8	7687.0	6933.6	6259.2	5942.8	5930.9	5804.3	5707.4	5671.8	5739.1
40°	9061.5	8919.1	8606.6	7681.1	6801.1	6273.0	6235.5	6043.6	5932.9	5873.6	6015.9
42.5°	9919.8	9801.1	9534.1	8519.6	7469.5	6755.6	6672.5	6344.2	6261.2	6205.8	6462.9
45°	10679.2	10572.4	10376.6	9415.5	8252.6	7412.1	7331.1	6795.1	6769.4	6769.4	7141.2
47.5°	11296.2	11272.5	11064.8	10329.1	9176.2	8159.7	8019.3	7422.0	7491.3	7598.0	8104.3
50°	11980.5	11915.2	11693.7	11229.0	10261.9	9016.0	8901.3	8191.3	8450.4	8743.1	9496.6
52.5°	12609.4	12644.9	12397.7	12166.4	11488.0	9971.2	9769.5	9099.1	9658.7	10143.3	11128.1
55°	13256.0	13258.0	13188.8	13157.2	12773.5	11027.2	10805.8	10190.7	11080.6	11681.8	13030.6
57.5°	13863.2	13867.1	13970.0	14248.8	14264.6	12245.5	11994.3	11531.5	12660.8	13273.8	14992.4
60°	14405.0	14432.7	14713.5	15366.2	15575.8	13641.7	13404.4	13115.6	14294.3	14911.3	17055.1
62.5°	14587.0	14687.8	15312.8	16240.3	16871.1	15354.3	15120.9	14948.9	16010.9	16584.4	18779.5
65°	14278.5	14509.9	15718.2	16962.1	18204.1	17389.3	17157.9	16970.0	17794.7	18334.6	20195.5
67.5°	13521.0	13819.7	15694.4	17719.5	19821.8	19837.6	19622.0	19181.0	19707.1	19914.7	20656.3
70°	11525.6	11972.6	14312.1	18002.3	21678.8	23185.7	22978.1	21842.9	21615.5	20610.8	19359.0
72.5°	7426.0	8027.2	10538.8	15674.7	22092.1	26336.1	26324.2	24245.7	22218.6	19258.1	15526.4
75°	2709.3	3077.2	4896.6	9838.7	18544.2	26175.9	26253.0	23834.4	20282.5	14875.7	9672.6
77.5°	986.8	1079.8	1597.9	3781.2	11405.0	21002.4	21162.6	19054.4	14436.7	7465.5	3832.6
80°	518.1	569.6	818.7	1467.4	4886.7	12472.9	12724.1	11323.9	6785.2	2248.6	1149.0
82.5°	286.8	310.5	458.8	797.0	2201.1	5333.7	5484.0	4473.4	2387.0	953.2	474.6
85°	154.3	164.1	215.6	435.1	1075.8	1849.1	1890.6	1336.9	951.2	559.7	229.4
87.5°	45.5	55.4	71.2	138.4	421.2	415.3	425.2	265.0	375.7	282.8	75.1
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°	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2	3787.2
2.5°	3805.0	3799.0	3777.3	3767.4	3755.5	3753.5	3763.4	3765.4	3767.4	3769.4	3777.3
5°	3840.6	3820.8	3801.0	3789.1	3793.1	3795.1	3814.8	3828.7	3838.6	3846.5	3850.4
7.5°	3909.8	3893.9	3860.3	3858.4	3864.3	3882.1	3907.8	3939.4	3957.2	3971.1	3975.0
10°	4012.6	3982.9	3943.4	3949.3	3961.2	3986.9	4040.3	4066.0	4095.7	4121.4	4115.4
12.5°	4117.4	4091.7	4046.2	4050.2	4070.0	4115.4	4166.9	4198.5	4218.3	4238.1	4246.0
15°	4253.9	4208.4	4159.0	4159.0	4194.5	4244.0	4267.7	4293.4	4305.3	4327.0	4335.0
17.5°	4394.3	4335.0	4269.7	4265.7	4309.2	4333.0	4346.8	4350.8	4354.7	4378.5	4386.4
20°	4534.7	4469.4	4376.5	4368.6	4378.5	4374.5	4372.5	4368.6	4374.5	4404.2	4416.0
22.5°	4673.1	4598.0	4469.4	4433.8	4406.2	4368.6	4366.6	4364.6	4368.6	4398.2	4418.0
25°	4835.3	4744.3	4572.3	4465.5	4372.5	4321.1	4327.0	4329.0	4333.0	4356.7	4388.4
27.5°	5011.3	4910.4	4667.2	4455.6	4287.5	4251.9	4242.0	4247.9	4261.8	4299.4	4336.9
30°	5187.3	5068.7	4754.2	4416.0	4180.7	4131.3	4099.6	4113.5	4157.0	4194.5	4236.1
32.5°	5347.5	5228.8	4823.4	4329.0	4044.2	3967.1	3925.6	3943.4	3986.9	4000.7	4050.2
35°	5535.4	5400.9	4853.1	4190.6	3895.9	3777.3	3721.9	3696.2	3717.9	3704.1	3747.6
37.5°	5745.0	5604.6	4849.1	4008.7	3721.9	3585.4	3508.3	3411.4	3365.9	3318.5	3348.1
40°	6055.5	5853.8	4801.7	3789.1	3506.3	3381.7	3243.3	3079.2	2976.3	2883.4	2889.3
42.5°	6478.7	6199.9	4714.7	3547.9	3263.1	3146.4	2958.5	2766.7	2604.5	2450.3	2436.4
45°	7109.6	6652.7	4605.9	3290.8	3000.1	2885.4	2681.7	2466.1	2282.2	2084.4	2060.7
47.5°	8019.3	7261.8	4503.1	2998.1	2723.2	2618.4	2434.5	2234.7	2017.2	1825.3	1803.6
50°	9269.1	8136.0	4408.1	2713.3	2450.3	2371.2	2224.8	2021.1	1801.6	1647.4	1637.5
52.5°	10859.2	9324.5	4368.6	2438.4	2195.2	2165.5	2048.8	1859.0	1651.3	1520.8	1510.9
55°	12684.5	10746.4	4368.6	2175.4	1971.7	1981.6	1900.5	1724.5	1544.5	1427.8	1416.0
57.5°	14547.4	12186.1	4289.5	1932.1	1781.8	1823.4	1772.0	1617.7	1455.5	1334.9	1315.1
60°	16264.0	13392.5	3969.1	1710.6	1613.7	1679.0	1645.4	1512.9	1315.1	1214.3	1198.4
62.5°	17583.1	14072.8	3352.1	1534.6	1475.3	1550.5	1532.7	1374.5	1289.4	1247.9	1234.0
65°	18243.6	13962.0	2563.0	1378.4	1358.6	1475.3	1437.7	1431.8	1364.6	1317.1	1301.3
67.5°	17838.2	13008.8	1859.0	1263.7	1291.4	1406.1	1550.5	1574.2	1449.6	1356.7	1340.8
70°	16060.3	11284.3	1384.3	1154.9	1206.4	1408.1	1768.0	1647.4	1421.9	1313.1	1295.3
72.5°	12217.8	8414.8	1073.9	1040.2	1095.6	1418.0	1864.9	1613.7	1342.8	1451.6	1439.7
75°	6987.0	4619.7	862.2	899.8	957.2	1325.0	1815.5	1526.7	1281.5	1332.9	1332.9
77.5°	2663.9	1775.9	711.9	761.4	769.3	1156.9	1736.4	1520.8	1220.2	1190.5	1085.7
80°	923.6	694.1	589.3	605.2	595.3	1028.4	1665.2	1323.0	998.7	893.9	864.2
82.5°	377.7	346.1	466.7	446.9	423.2	799.0	1344.8	1081.8	816.8	721.8	713.9
85°	164.1	219.5	308.5	270.9	245.2	553.7	1077.8	915.6	690.2	595.3	593.3
87.5°	33.6	83.1	130.5	122.6	126.6	369.8	765.3	650.6	488.5	365.9	286.8
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)