

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: P943816

Luminaire Tested: **GALN-SB8C-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8C-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39234 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 399.8
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

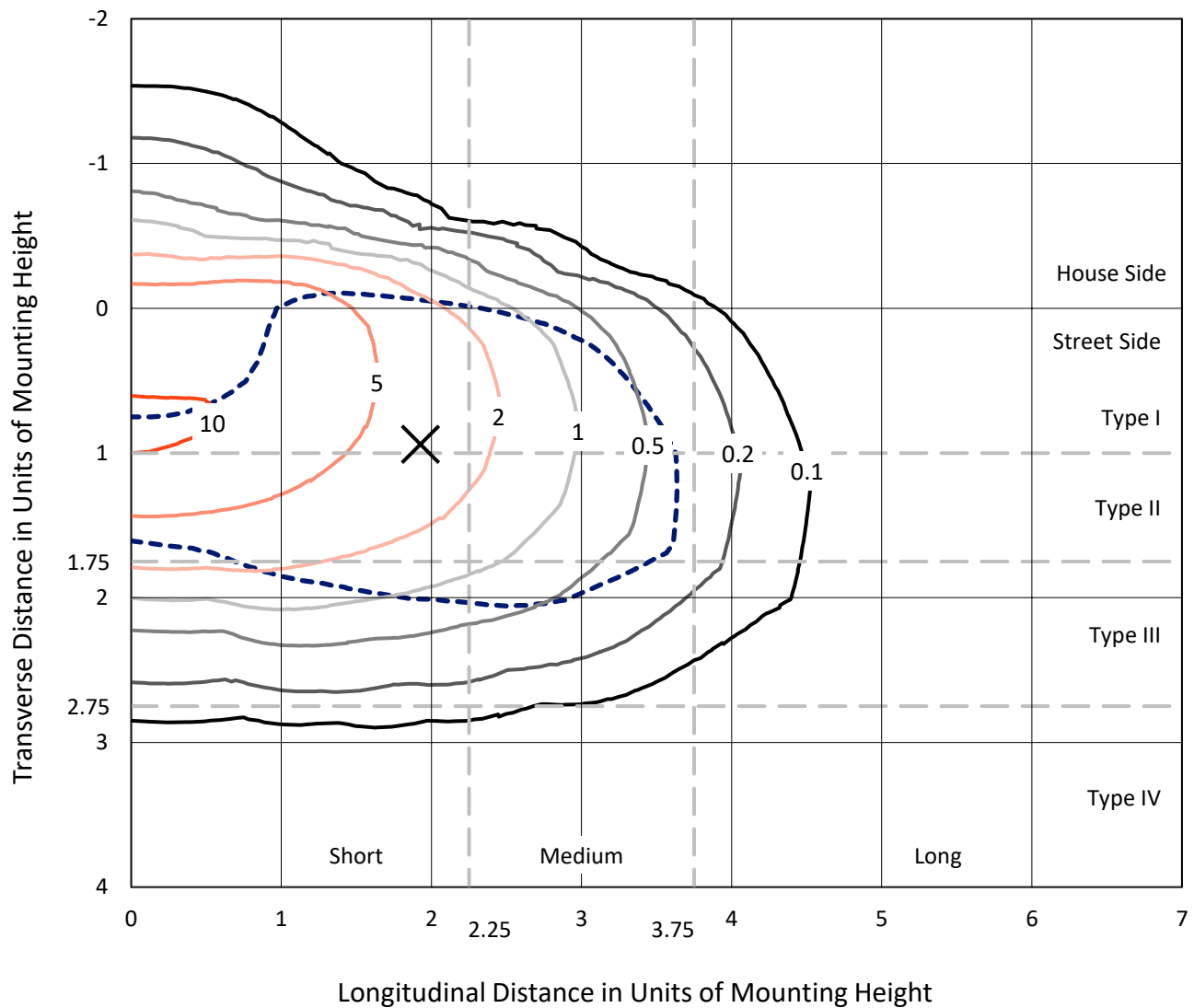


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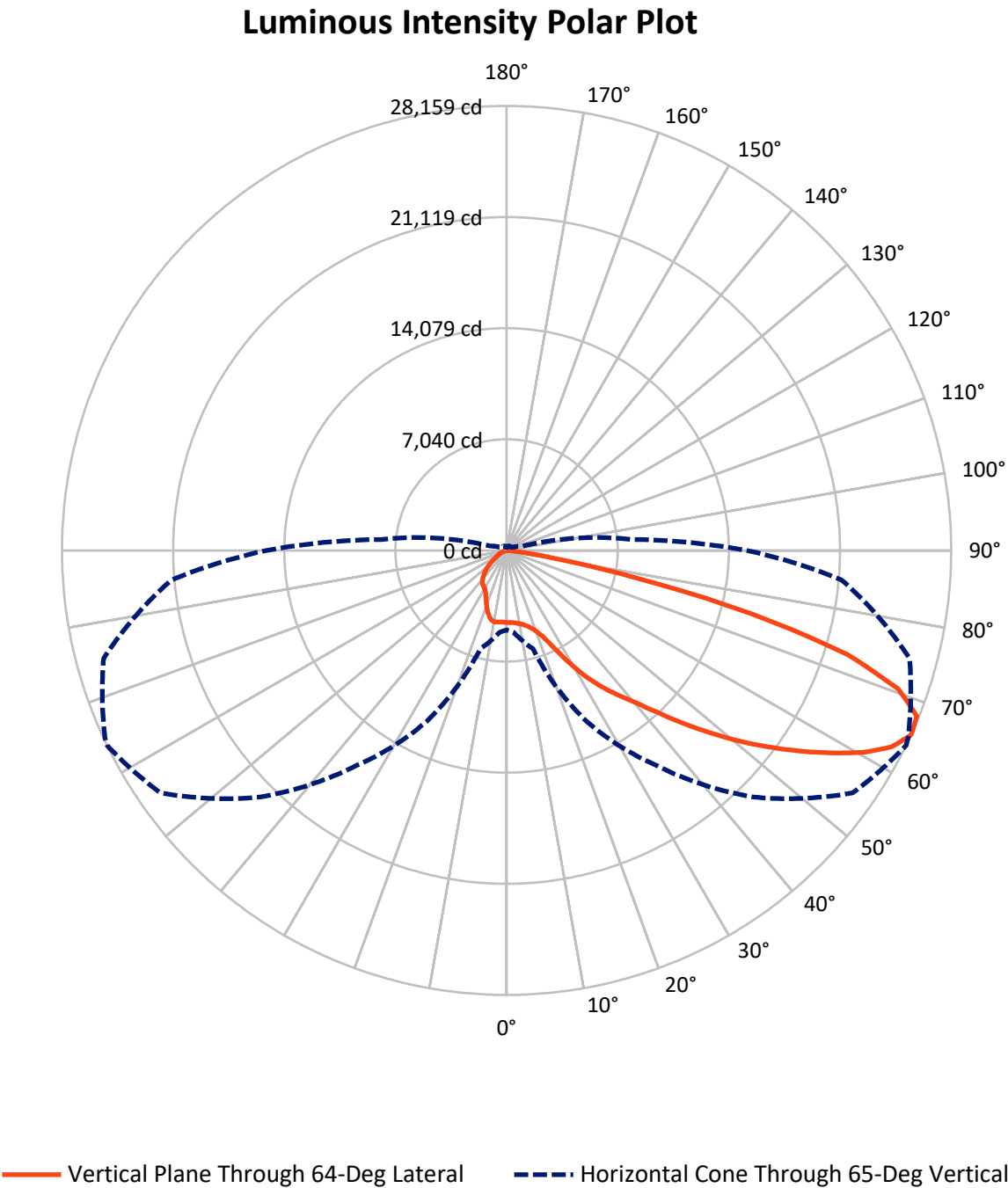
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type III - Short - N/A

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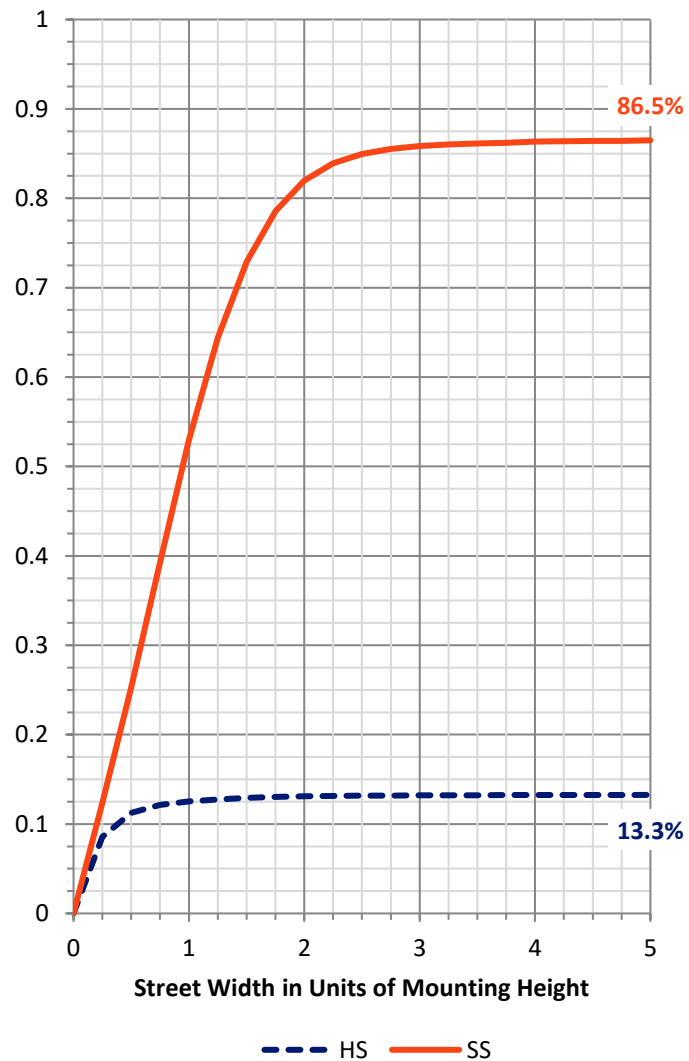
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5246.8	0.0	5246.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	33987.2	0.0	33987.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	39234.0	0.0	39234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.0	1.1
10°-20°	1141.9	2.9
20°-30°	2163.8	5.5
30°-40°	4378.5	11.2
40°-50°	7458.9	19.0
50°-60°	10143.5	25.9
60°-70°	9525.3	24.3
70°-80°	3816.2	9.7
80°-90°	184.9	0.5
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°	39234.0	100.0
0°-180°	39234.0	100.0

Coefficient of Utilization



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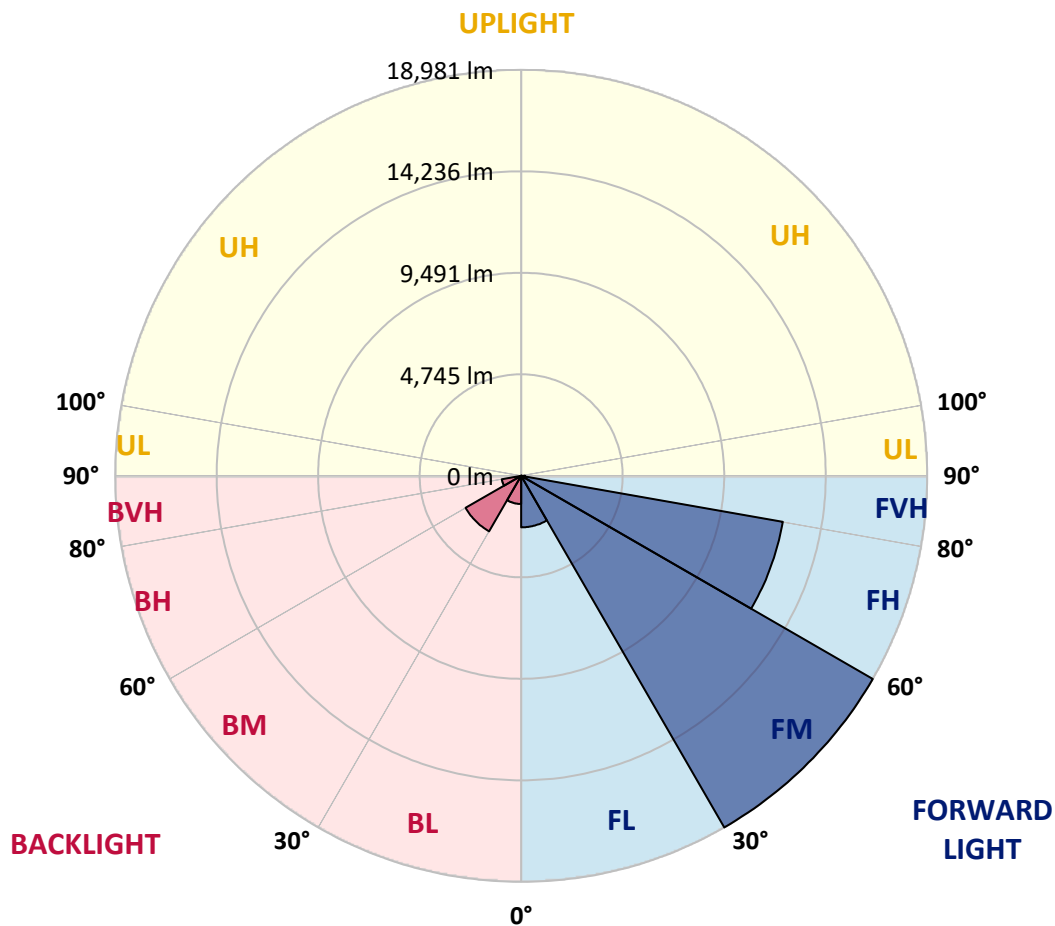
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2409.4	6.1			
FM	(30°-60°)	18981.4	48.4			
FH	(60°-80°)	12420.6	31.7			G5
FVH	(80°-90°)	175.9	0.4			G2/225
BL	(0°-30°)	1317.3	3.4	B3/2500		
BM	(30°-60°)	2999.5	7.6	B3/5000		
BH	(60°-80°)	920.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	9.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3
2.5°	4547.5	4579.1	4571.2	4563.3	4560.7	4566.0	4568.6	4566.0	4566.0	4566.0	4568.6
5°	4460.7	4487.0	4487.0	4505.5	4531.8	4563.3	4587.0	4592.3	4597.5	4605.4	4602.8
7.5°	4295.0	4316.1	4331.9	4392.4	4458.1	4542.3	4613.3	4650.1	4655.4	4684.3	4694.8
10°	4181.9	4208.3	4234.6	4297.7	4392.4	4518.6	4639.6	4729.0	4742.2	4810.6	4842.1
12.5°	4176.7	4203.0	4237.2	4305.6	4416.0	4550.2	4697.5	4826.3	4850.0	4950.0	5015.7
15°	4231.9	4263.5	4295.0	4379.2	4497.6	4660.6	4818.4	4978.9	5002.6	5144.6	5215.6
17.5°	4345.0	4387.1	4410.8	4494.9	4621.2	4802.7	5010.4	5194.6	5215.6	5381.3	5470.7
20°	4568.6	4618.6	4626.4	4694.8	4818.4	5013.1	5260.3	5489.1	5515.4	5704.8	5804.8
22.5°	5031.5	5102.5	5039.4	5073.6	5184.0	5378.7	5646.9	5936.3	5973.1	6188.8	6278.2
25°	5846.8	5946.8	5783.7	5725.9	5773.2	5975.7	6312.4	6678.0	6720.0	6893.6	6938.4
27.5°	7448.6	7319.7	7072.5	6830.5	6688.5	6804.2	7183.0	7635.3	7687.9	7856.3	7803.7
30°	9208.2	9095.1	8761.1	8224.5	7887.8	7869.4	8219.2	8724.2	8784.7	8945.2	8784.7
32.5°	10970.4	10862.5	10499.6	9839.4	9255.5	8966.2	9208.2	9768.4	9800.0	9902.5	9665.8
35°	12703.7	12593.2	12230.2	11554.3	10836.2	10178.7	10131.4	10762.6	10773.1	10881.0	10528.5
37.5°	14447.4	14355.4	13968.8	13306.0	12598.4	11691.0	11251.8	11704.2	11717.3	11822.6	11457.0
40°	15691.5	15731.0	15465.3	14952.4	14344.9	13353.3	12509.0	12706.3	12627.4	12803.6	12585.3
42.5°	16759.4	16838.3	16606.8	16349.1	15996.6	15123.4	14066.1	14031.9	13905.6	14000.3	13774.1
45°	17682.5	17748.3	17540.5	17480.0	17472.1	16859.3	15767.8	15562.6	15386.4	15368.0	15097.1
47.5°	18021.8	18148.1	18237.5	18440.0	18834.6	18576.8	17527.4	17209.1	17011.9	16867.2	16438.5
50°	18150.7	18284.8	18589.9	19179.1	20112.8	20223.3	19279.0	18921.3	18679.4	18416.4	17785.1
52.5°	17977.1	18216.5	18626.8	19618.3	20972.9	21543.6	20959.7	20646.7	20370.6	19941.8	19005.5
55°	16954.0	17193.3	18032.4	19613.1	21401.6	22469.4	22548.3	22408.9	22098.6	21422.6	19991.8
57.5°	14797.3	15152.3	16480.6	18945.0	21393.7	23266.4	24105.4	24205.3	23858.1	22890.3	20767.7
60°	11809.4	12290.7	13910.9	17464.2	20733.5	23697.7	25470.4	25970.2	25601.9	24336.8	21396.3
62.5°	8240.3	8797.9	10331.3	15144.4	19223.8	23387.4	26467.3	27390.5	27111.7	25630.9	21638.3
65°	5026.2	5205.1	6441.3	11917.2	16656.8	22088.1	26775.0	28158.5	28066.4	26422.6	21280.6
67.5°	3348.2	3498.1	3853.2	8171.9	12929.8	19492.1	26038.5	28024.3	28050.6	26293.7	19970.8
70°	2017.3	2146.2	2377.7	4752.7	8379.7	15428.5	23758.2	26314.7	26467.3	24570.9	17487.9
72.5°	831.1	917.9	1128.3	2154.1	4339.8	9792.1	18918.7	22593.0	22948.1	20659.9	13421.7
75°	470.8	515.5	662.8	1081.0	1883.2	4563.3	11459.6	16038.7	16562.1	14239.7	8074.6
77.5°	313.0	334.0	428.7	699.6	1060.0	1557.1	4897.4	8356.0	9355.5	7777.4	3495.5
80°	210.4	228.8	294.6	468.2	689.1	668.1	1559.7	3095.7	3808.5	2672.2	852.2
82.5°	142.0	144.7	210.4	307.7	436.6	323.5	460.3	962.6	1209.9	773.3	323.5
85°	81.5	78.9	155.2	178.9	194.6	134.1	139.4	289.3	378.7	326.1	184.1
87.5°	10.5	15.8	60.5	47.3	26.3	28.9	28.9	50.0	73.6	78.9	39.5
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°	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3	4563.3
2.5°	4568.6	4566.0	4558.1	4550.2	4531.8	4521.2	4526.5	4521.2	4518.6	4521.2	4531.8
5°	4602.8	4594.9	4573.8	4547.5	4510.7	4466.0	4437.1	4395.0	4355.5	4331.9	4337.1
7.5°	4694.8	4686.9	4658.0	4584.4	4466.0	4279.3	4108.3	3958.4	3845.3	3779.5	3782.2
10°	4842.1	4829.0	4784.3	4621.2	4310.8	3903.2	3563.9	3282.4	3098.3	3011.5	3003.6
12.5°	5015.7	4999.9	4921.0	4587.0	4016.2	3379.8	2911.6	2598.6	2427.6	2351.4	2343.5
15°	5220.9	5199.8	5044.6	4423.9	3587.5	2801.1	2372.4	2138.3	2027.9	1959.5	1962.1
17.5°	5476.0	5439.2	5136.7	4179.3	3122.0	2359.3	2041.0	1864.8	1767.5	1701.7	1696.5
20°	5807.4	5746.9	5210.3	3887.4	2693.3	2080.5	1817.4	1670.1	1596.5	1538.6	1528.1
22.5°	6270.3	6183.5	5299.8	3571.8	2390.8	1888.5	1651.7	1543.9	1483.4	1417.7	1407.1
25°	6843.7	6741.1	5410.2	3279.8	2183.0	1722.8	1530.8	1441.3	1370.3	1294.0	1286.1
27.5°	7645.9	7461.8	5541.7	3040.5	2004.2	1580.7	1420.3	1320.3	1238.8	1175.7	1162.5
30°	8540.1	8237.7	5657.5	2895.8	1841.1	1449.2	1275.6	1175.7	1099.4	1054.7	1046.8
32.5°	9387.0	8976.7	5733.7	2832.7	1693.8	1299.3	1117.8	1010.0	952.1	939.0	946.9
35°	10186.6	9644.8	5725.9	2772.2	1562.3	1149.4	962.6	852.2	807.5	815.3	815.3
37.5°	11107.2	10357.6	5670.6	2677.5	1454.5	1012.6	828.5	731.2	691.7	694.4	704.9
40°	12177.6	11180.8	5636.4	2498.6	1336.1	886.4	718.0	639.1	610.2	599.7	597.0
42.5°	13319.1	11977.7	5641.7	2296.1	1188.8	773.3	641.8	576.0	549.7	541.8	539.2
45°	14465.9	12737.8	5649.6	2085.7	1033.7	686.5	586.5	531.3	515.5	505.0	505.0
47.5°	15544.2	13384.9	5502.3	1859.5	881.1	620.7	541.8	505.0	491.8	478.7	478.7
50°	16548.9	13816.2	5147.2	1596.5	760.1	568.1	507.6	481.3	468.2	455.0	455.0
52.5°	17330.1	13884.6	4560.7	1325.6	676.0	528.7	486.6	462.9	447.1	434.0	431.3
55°	17677.3	13455.9	3726.9	1073.1	610.2	494.5	465.5	441.9	423.5	410.3	407.7
57.5°	17587.9	12553.7	2906.3	862.7	547.1	460.3	439.2	423.5	402.4	381.4	378.7
60°	17148.6	11346.5	2190.9	718.0	489.2	423.5	410.3	397.2	368.2	336.7	331.4
62.5°	16388.5	9828.9	1562.3	594.4	426.1	381.4	376.1	365.6	323.5	265.6	260.4
65°	15226.0	7985.2	1052.1	494.5	365.6	334.0	336.7	318.2	263.0	197.3	192.0
67.5°	13526.9	5838.9	673.3	405.0	305.1	278.8	281.4	270.9	223.6	168.3	160.4
70°	11362.3	3866.3	439.2	307.7	244.6	215.7	231.5	234.1	189.4	136.8	131.5
72.5°	8329.7	2283.0	307.7	228.8	178.9	149.9	189.4	194.6	152.5	102.6	97.3
75°	4747.4	1083.6	231.5	165.7	110.5	105.2	147.3	147.3	105.2	68.4	63.1
77.5°	1993.7	452.4	163.1	107.8	63.1	60.5	99.9	92.1	52.6	31.6	31.6
80°	576.0	202.5	86.8	52.6	26.3	23.7	39.5	28.9	13.2	5.3	5.3
82.5°	226.2	89.4	34.2	21.0	10.5	10.5	5.3	0.0	0.0	0.0	0.0
85°	134.1	36.8	15.8	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.2	7.9	5.3	0.0	0.0	0.0	0.0	0.0	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)