

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: P951650

Luminaire Tested: **GALN-SB5D-727-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951650
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5D-727-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48318 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 364.9
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



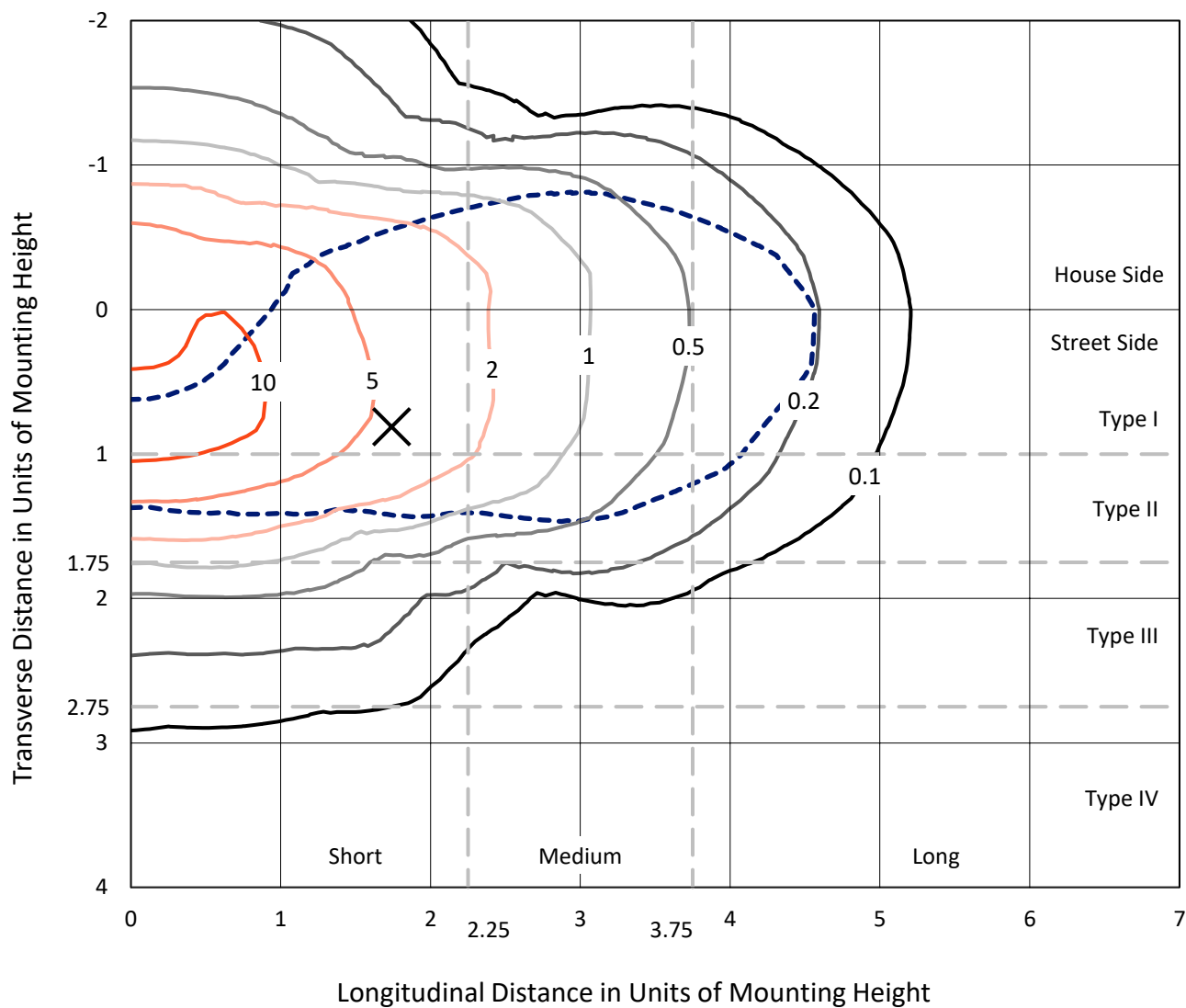
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

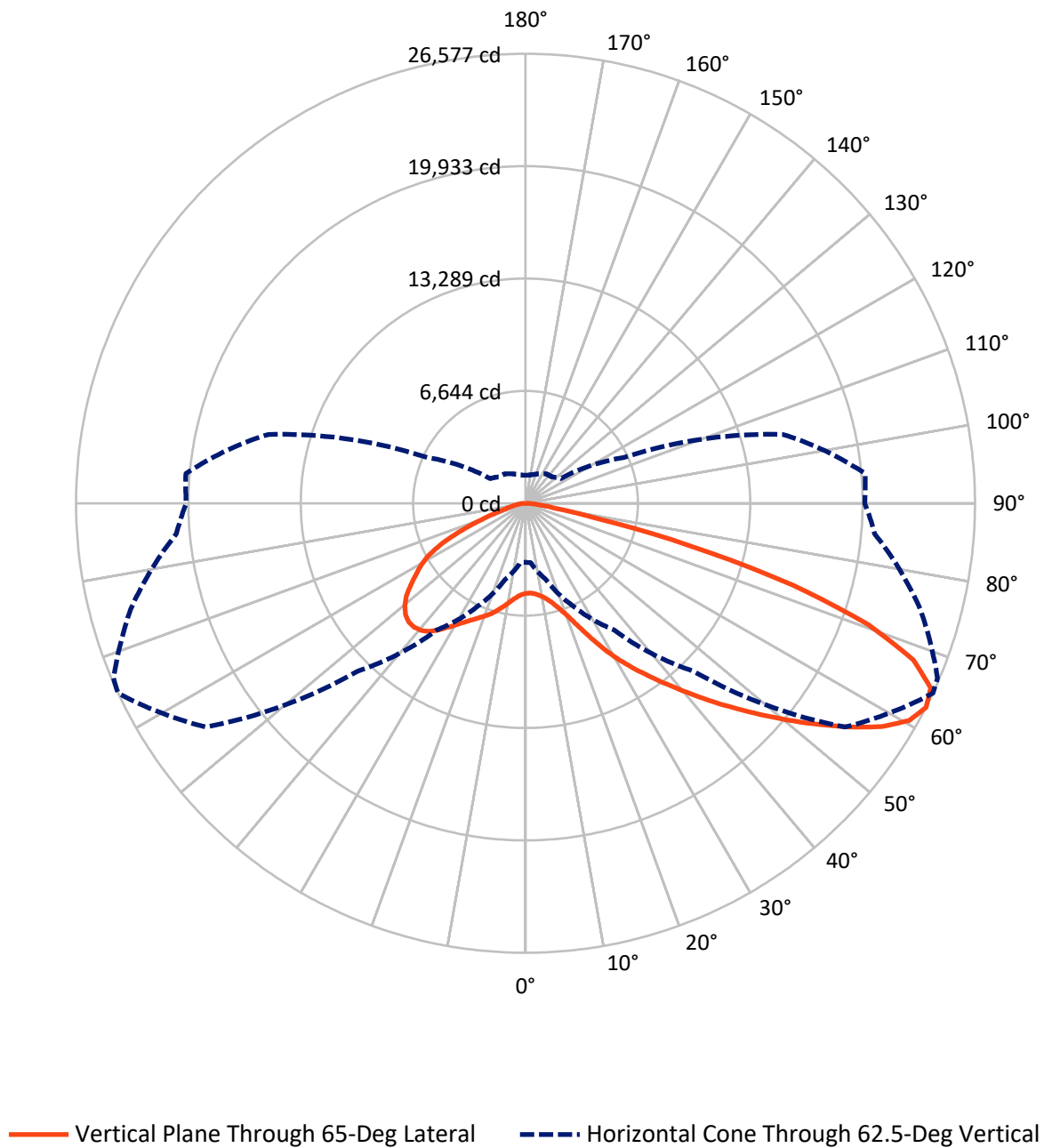


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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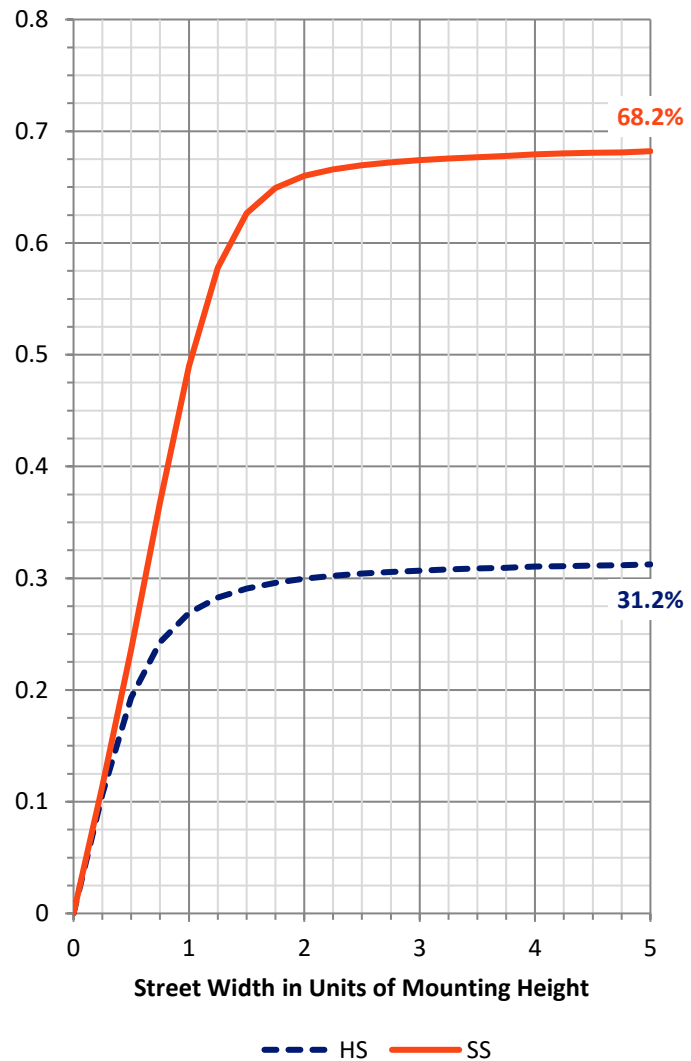
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15247.1	0.0	15247.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	33070.9	0.0	33070.9
	% Fixture	68.4	0.0	68.4
Total	Lumens	48318.0	0.0	48318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	1.1
10°-20°	1800.1	3.7
20°-30°	3650.0	7.6
30°-40°	6316.2	13.1
40°-50°	9558.3	19.8
50°-60°	11206.5	23.2
60°-70°	9395.3	19.4
70°-80°	5187.0	10.7
80°-90°	673.8	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°	48318.0	100.0
0°-180°	48318.0	100.0

Coefficient of Utilization



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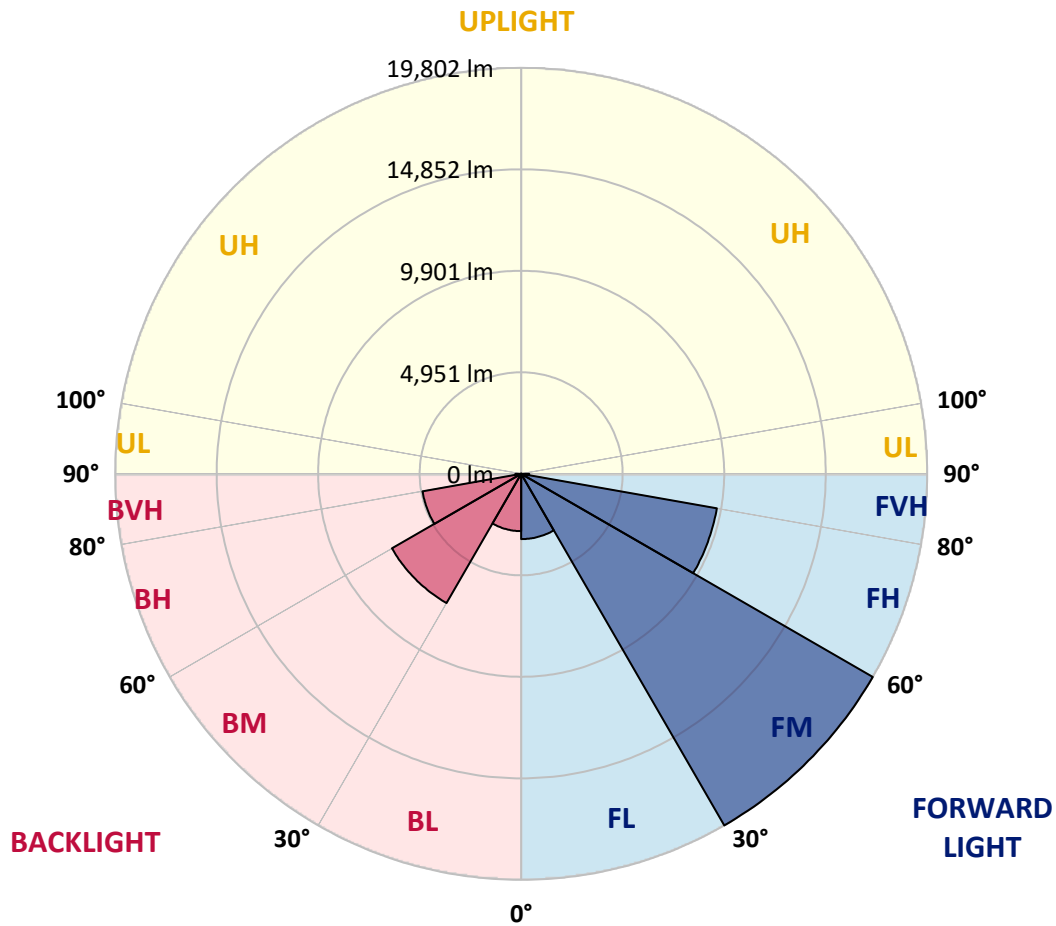
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3184.8	6.6			
FM	(30°-60°)	19802.3	41.0			
FH	(60°-80°)	9691.2	20.1			G4/12000
FVH	(80°-90°)	392.7	0.8			G3/500
BL	(0°-30°)	2796.1	5.8	B4/5000		
BM	(30°-60°)	7278.7	15.1	B4/8500		
BH	(60°-80°)	4891.1	10.1	B4/5000		G4/5000
BVH	(80°-90°)	281.1	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4
2.5°	5289.3	5274.3	5286.8	5286.8	5291.8	5289.3	5306.9	5311.9	5319.4	5334.5	5334.5
5°	5236.7	5234.2	5256.8	5276.8	5296.9	5314.4	5337.0	5369.6	5374.6	5392.1	5414.7
7.5°	5219.1	5204.1	5239.2	5264.3	5311.9	5354.5	5414.7	5469.8	5492.4	5499.9	5542.5
10°	5354.5	5329.4	5362.0	5377.1	5417.2	5459.8	5530.0	5617.7	5642.8	5672.9	5720.5
12.5°	5585.1	5557.6	5605.2	5627.8	5665.4	5703.0	5750.6	5835.8	5848.4	5903.5	5948.6
15°	5901.0	5868.4	5898.5	5926.1	5988.7	6023.8	6071.5	6154.2	6154.2	6196.8	6229.4
17.5°	6329.7	6287.0	6309.6	6319.6	6359.7	6412.4	6492.6	6565.3	6602.9	6587.9	6542.7
20°	6968.9	6916.2	6916.2	6866.1	6851.1	6893.7	6999.0	7099.2	7139.4	7061.6	6951.3
22.5°	7929.0	7853.8	7811.2	7640.7	7573.0	7578.0	7683.3	7806.2	7838.8	7700.9	7452.7
25°	9149.8	9032.0	8974.3	8723.6	8570.7	8437.9	8520.6	8678.5	8723.6	8553.2	8152.1
27.5°	10370.6	10378.1	10323.0	10022.2	9769.0	9525.8	9483.2	9648.7	9696.3	9503.3	9006.9
30°	12082.8	11904.8	11799.5	11438.5	11077.5	10736.6	10561.1	10628.8	10641.3	10410.7	9834.2
32.5°	13559.3	13514.1	13288.5	12972.7	12508.9	11975.0	11681.7	11573.9	11553.8	11225.4	10541.1
35°	15241.3	15216.2	14978.1	14602.1	14100.7	13358.7	12829.8	12521.4	12496.4	12035.1	11240.5
37.5°	16951.0	16951.0	16717.8	16306.7	15787.8	14860.3	14055.6	13566.8	13486.6	12884.9	11952.4
40°	18314.6	18231.9	18274.5	18101.6	17507.5	16522.3	15416.8	14707.4	14599.6	13877.6	12709.5
42.5°	19089.2	19061.7	19317.4	19510.4	19267.2	18480.1	16915.9	15943.2	15792.8	14970.6	13581.8
45°	19262.2	19232.1	19688.4	20395.3	20736.2	20412.8	18545.3	17244.2	17061.3	16113.7	14516.9
47.5°	18863.6	18803.5	19472.8	20588.3	21681.3	22250.3	20310.1	18655.6	18389.9	17226.7	15477.0
50°	17665.4	17607.7	18620.5	20102.0	21999.6	23498.7	22225.3	20152.1	19746.0	18419.9	16447.1
52.5°	15060.8	15088.4	16675.2	18710.7	21581.0	24275.8	23874.7	21728.9	21240.1	19640.7	17357.1
55°	11731.8	11792.0	13742.3	15983.3	19906.5	24158.0	25000.3	23353.3	22867.0	20788.9	18297.1
57.5°	8400.3	8666.0	10493.4	12712.0	16690.2	22290.4	25245.9	24897.5	24426.2	22042.3	19217.1
60°	5444.8	5492.4	7372.5	9608.5	12709.5	18971.4	24747.1	26068.2	25699.7	23320.7	19986.7
62.5°	3489.5	3522.0	4667.7	6720.7	9147.3	14035.5	23067.5	26577.0	26464.2	24165.5	20726.2
65°	2564.5	2539.4	3136.0	4442.0	6161.7	8656.0	19806.2	26331.4	26554.5	24694.4	21337.8
67.5°	2140.8	2105.7	2399.0	3075.8	4539.8	4915.8	14654.7	24734.6	25551.8	24634.3	21786.6
70°	1950.3	1920.2	2098.2	2283.7	3542.1	3291.4	7387.5	21503.3	22761.7	23949.9	21713.9
72.5°	1652.0	1599.3	1842.5	2028.0	2755.0	2524.3	3053.3	16517.3	18051.4	21756.5	20691.1
75°	1281.0	1245.9	1453.9	1784.8	2070.6	1970.3	1930.2	10029.7	11704.2	16825.6	18101.6
77.5°	1015.3	967.6	1158.1	1391.3	1862.5	1486.5	1406.3	4319.2	5978.7	10741.6	13544.2
80°	764.6	722.0	879.9	1100.5	1431.4	1120.5	910.0	1762.3	2253.6	5442.3	6811.0
82.5°	544.0	506.4	614.2	807.2	962.6	1005.2	559.0	987.7	1110.5	2098.2	1521.6
85°	348.4	325.9	411.1	506.4	611.7	646.8	340.9	516.4	566.5	864.8	634.2
87.5°	190.5	155.4	220.6	235.6	283.3	258.2	162.9	188.0	203.1	313.3	268.2
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°	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4	5324.4
2.5°	5344.5	5352.0	5377.1	5384.6	5402.1	5424.7	5439.7	5454.8	5454.8	5469.8	5469.8
5°	5417.2	5434.7	5487.4	5515.0	5560.1	5605.2	5632.8	5665.4	5685.4	5695.4	5700.5
7.5°	5557.6	5585.1	5660.3	5708.0	5785.7	5848.4	5891.0	5936.1	5946.1	5973.7	5963.7
10°	5748.1	5780.7	5865.9	5956.1	6048.9	6126.6	6166.7	6199.3	6211.8	6216.9	6204.3
12.5°	5966.2	6013.8	6124.1	6234.4	6332.2	6399.8	6409.9	6402.4	6367.3	6337.2	6337.2
15°	6234.4	6277.0	6399.8	6520.2	6615.4	6628.0	6565.3	6525.2	6482.6	6475.1	6475.1
17.5°	6555.3	6577.8	6690.6	6808.5	6816.0	6773.4	6680.6	6643.0	6602.9	6575.3	6577.8
20°	6928.8	6921.3	7001.5	7051.6	6999.0	6868.6	6728.2	6665.6	6625.5	6592.9	6595.4
22.5°	7375.0	7317.3	7307.3	7294.8	7154.4	6881.2	6690.6	6610.4	6547.8	6502.6	6517.7
25°	8024.3	7803.7	7650.7	7565.5	7249.7	6813.5	6570.3	6392.3	6274.5	6196.8	6226.9
27.5°	8836.5	8465.4	8079.4	7871.3	7249.7	6675.6	6279.5	5991.2	5798.2	5718.0	5758.1
30°	9611.1	9222.5	8653.5	8239.8	7232.1	6450.0	5810.8	5409.7	5184.1	5103.8	5151.5
32.5°	10272.8	9849.2	9262.6	8643.4	7189.5	6084.0	5229.2	4785.5	4567.4	4472.1	4519.8
35°	10887.0	10435.8	9874.3	9087.1	7076.7	5547.5	4589.9	4251.5	4008.4	3855.5	3905.6
37.5°	11516.2	10979.8	10453.3	9488.2	6873.6	4920.8	4098.6	3810.3	3524.6	3319.0	3374.1
40°	12200.6	11558.8	11072.5	9726.4	6540.2	4324.2	3717.6	3454.4	3151.0	2933.0	2975.6
42.5°	13000.2	12253.2	11761.9	9849.2	6084.0	3900.6	3469.4	3211.2	2925.4	2747.4	2782.5
45°	13835.0	13017.8	12391.1	9846.7	5575.1	3702.5	3389.2	3133.5	2817.6	2632.1	2662.2
47.5°	14709.9	13817.5	12935.1	9686.3	5133.9	3730.1	3344.1	2965.5	2617.1	2436.6	2461.7
50°	15587.3	14692.3	13461.5	9385.4	4945.9	3669.9	3176.1	2729.9	2318.8	2155.8	2165.9
52.5°	16457.1	15622.4	13915.2	8956.8	4755.4	3446.8	2960.5	2424.1	2196.0	2083.1	2083.1
55°	17332.0	16542.3	14409.1	8332.6	4279.1	3186.1	2599.5	2308.8	2098.2	1995.4	1985.4
57.5°	18209.4	17605.2	14877.8	7708.4	3680.0	2865.3	2401.5	2168.4	2000.4	1912.7	1897.6
60°	19121.8	18821.0	15361.6	7134.3	3088.4	2454.2	2256.1	2055.6	1885.1	1787.3	1779.8
62.5°	20061.9	20159.7	15740.2	6394.8	2544.4	2203.5	2125.8	1920.2	1754.8	1662.0	1659.5
65°	21009.5	21450.7	15988.3	5369.6	2063.1	1965.3	1985.4	1772.3	1604.3	1524.1	1521.6
67.5°	21723.9	22380.7	15918.2	4063.5	1692.1	1739.7	1809.9	1616.9	1459.0	1396.3	1398.8
70°	21804.1	22270.4	15226.3	2782.5	1416.3	1519.1	1614.4	1464.0	1301.0	1255.9	1258.4
72.5°	20736.2	20766.3	13298.6	1817.4	1198.2	1333.6	1408.8	1308.5	1150.6	1105.5	1103.0
75°	17936.1	17174.1	9764.0	1198.2	1002.7	1145.6	1215.8	1145.6	992.7	1002.7	967.6
77.5°	13589.3	12163.0	5928.6	852.3	837.3	962.6	1057.9	1007.7	877.4	985.2	867.4
80°	7001.5	6580.3	2644.7	636.7	661.8	769.6	869.9	804.7	694.4	661.8	604.1
82.5°	1604.3	1865.1	1042.8	456.2	478.8	554.0	664.3	604.1	498.9	421.1	416.1
85°	561.5	614.2	461.3	285.8	280.8	345.9	451.2	403.6	338.4	270.7	285.8
87.5°	178.0	233.1	173.0	115.3	120.3	155.4	208.1	190.5	157.9	102.8	107.8
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)