

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: P942635

Luminaire Tested: **GALN-SB6D-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56712 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

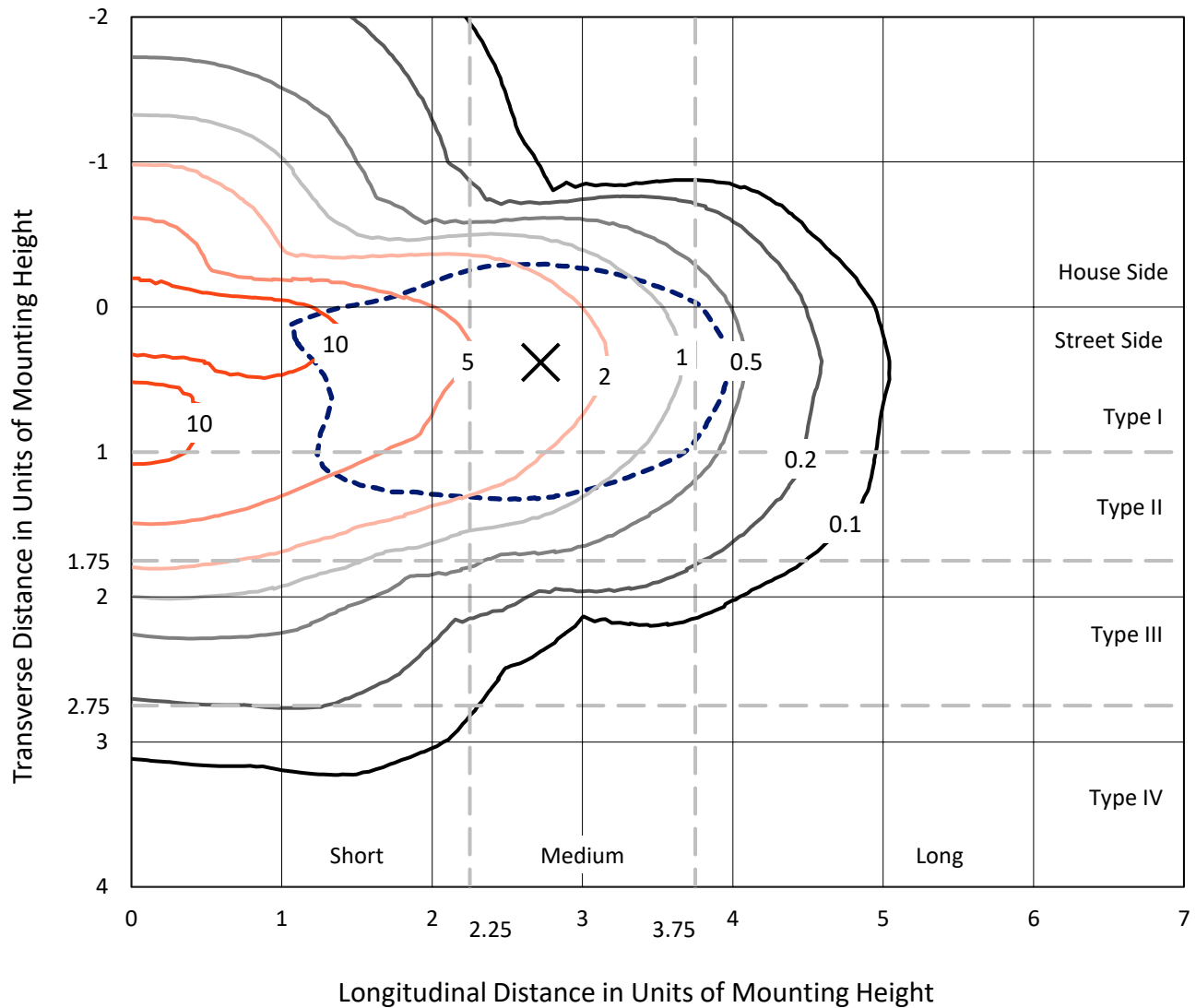


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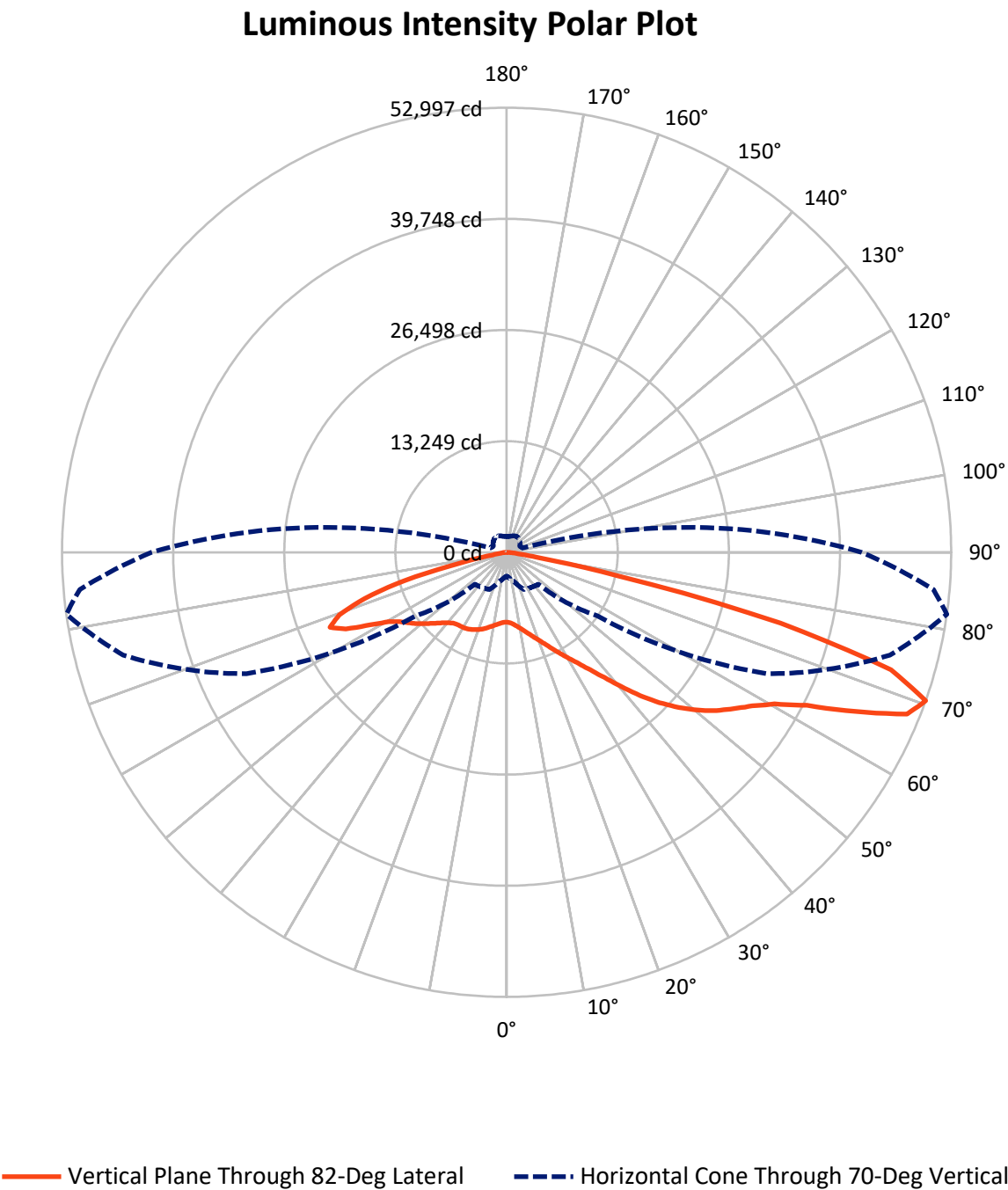
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
Type II - Medium - N/A

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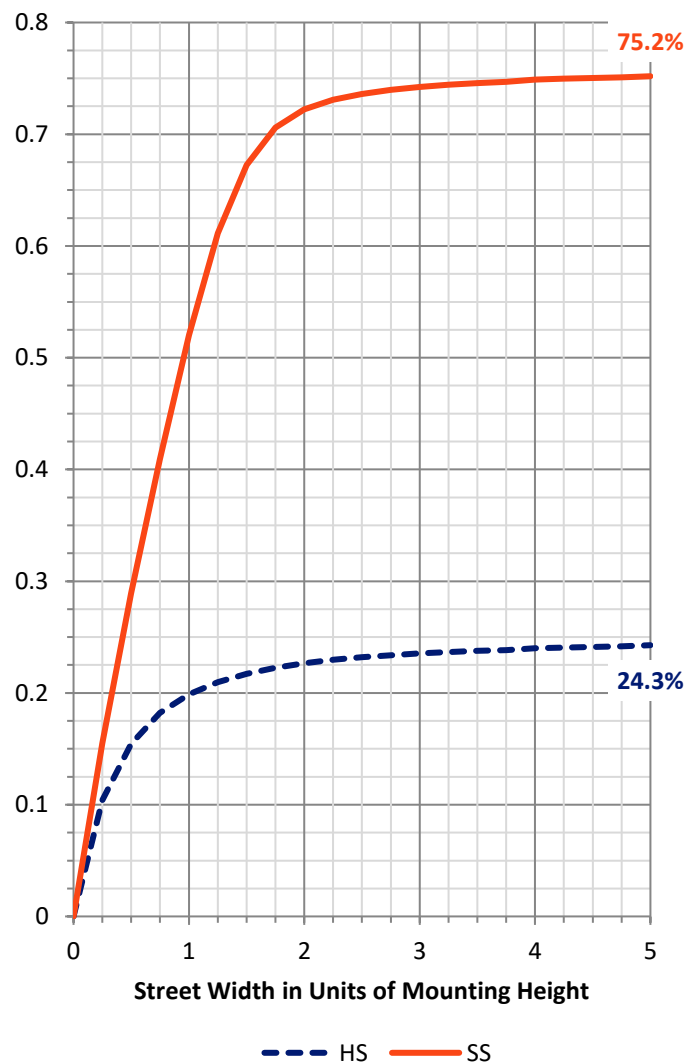
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13980.9	0.0	13980.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	42731.1	0.0	42731.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	56712.0	0.0	56712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.1	1.4
10°-20°	2255.5	4.0
20°-30°	3773.2	6.7
30°-40°	5894.8	10.4
40°-50°	9388.1	16.6
50°-60°	13064.7	23.0
60°-70°	13666.2	24.1
70°-80°	7142.7	12.6
80°-90°	741.7	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°	56712.0	100.0
0°-180°	56712.0	100.0

Coefficient of Utilization



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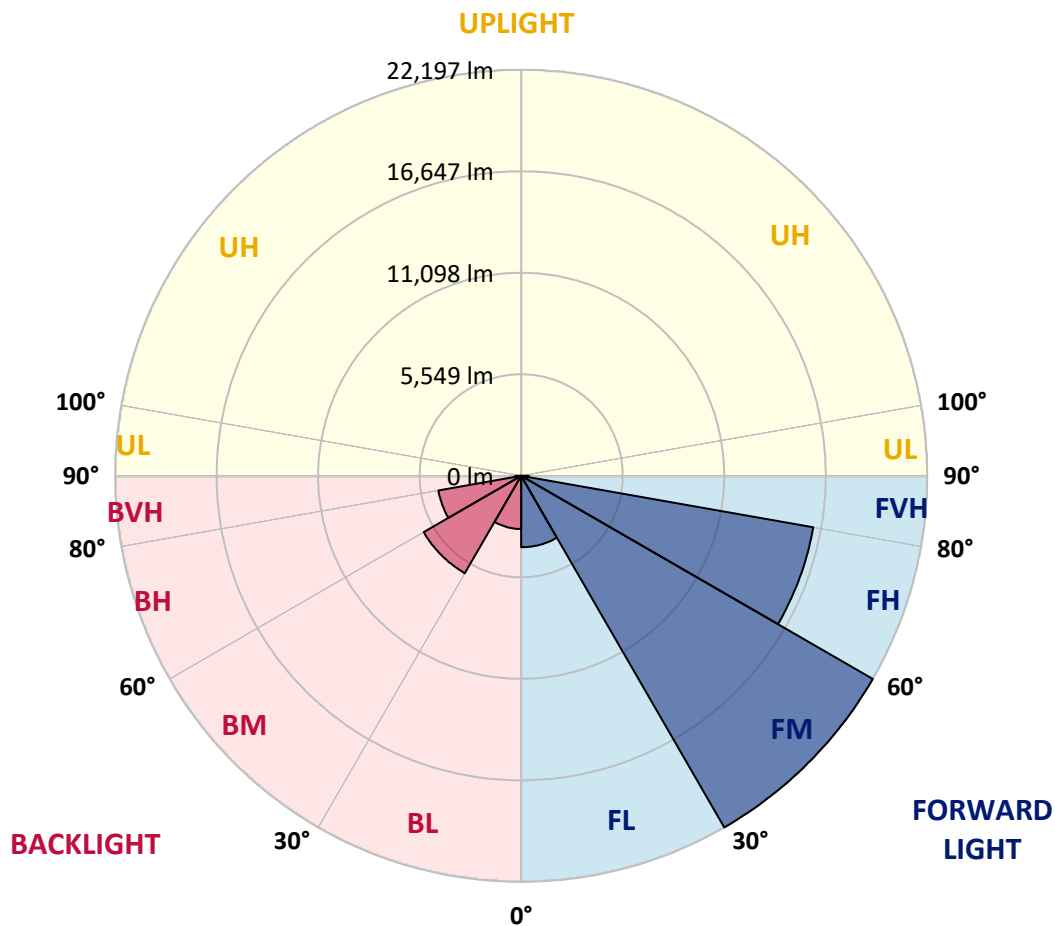
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3905.3	6.9			
FM	(30°-60°)	22196.5	39.1			
FH	(60°-80°)	16214.1	28.6			G5
FVH	(80°-90°)	415.2	0.7			G3/500
BL	(0°-30°)	2908.5	5.1	B4/5000		
BM	(30°-60°)	6151.0	10.8	B4/8500		
BH	(60°-80°)	4594.8	8.1	B4/5000		G4/5000
BVH	(80°-90°)	326.5	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-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7
2.5°	8513.3	8561.5	8546.4	8531.4	8531.4	8510.3	8507.3	8477.2	8453.1	8414.0	8405.0
5°	8621.6	8672.8	8666.8	8678.8	8717.9	8727.0	8736.0	8717.9	8669.8	8621.6	8600.6
7.5°	8525.3	8582.5	8600.6	8672.8	8793.2	8901.5	8982.8	9015.9	8970.7	8901.5	8868.4
10°	8200.3	8263.5	8326.7	8498.3	8711.9	8967.7	9184.4	9313.8	9304.7	9238.5	9181.4
12.5°	7541.3	7607.5	7742.9	8077.0	8468.2	8919.6	9322.8	9593.6	9686.9	9638.8	9539.5
15°	7014.7	7071.8	7174.2	7517.2	8025.8	8711.9	9374.0	9900.6	10138.3	10111.2	9990.9
17.5°	6999.6	7023.7	7086.9	7249.4	7640.6	8386.9	9319.8	10201.5	10655.9	10652.9	10502.4
20°	7264.4	7273.5	7309.6	7342.7	7565.4	8140.1	9181.4	10451.3	11236.7	11236.7	11074.2
22.5°	7631.6	7625.6	7661.7	7631.6	7739.9	8119.1	9094.1	10671.0	11883.7	11931.9	11727.2
25°	8182.3	8152.2	8143.2	8073.9	8095.0	8314.7	9190.4	10920.7	12651.1	12750.4	12494.6
27.5°	8916.5	8868.4	8835.3	8675.8	8621.6	8717.9	9485.3	11221.7	13505.7	13677.3	13352.3
30°	9873.5	9786.2	9738.1	9461.2	9265.6	9280.7	9930.7	11621.9	14399.5	14676.3	14264.1
32.5°	11179.5	11044.1	10914.7	10460.3	10102.2	9984.8	10505.5	12175.6	15368.5	15810.8	15281.2
35°	12642.1	12533.7	12395.3	11694.1	11143.4	10872.6	11281.9	12949.0	16503.0	17204.2	16515.0
37.5°	14050.4	13957.1	14023.3	13078.4	12368.2	11974.0	12299.0	13987.2	17902.3	18937.5	18061.8
40°	15506.9	15434.7	15443.7	14540.9	13713.4	13271.0	13532.8	15290.2	19506.3	20998.9	19921.5
42.5°	17089.8	17035.6	16855.1	16054.6	15124.7	14712.5	14953.2	16794.9	21227.6	23346.1	21961.9
45°	18862.3	18829.2	18660.7	17742.8	16677.5	16214.1	16539.1	18456.0	22957.9	25555.0	24011.2
47.5°	20394.0	20421.1	20400.0	19626.6	18522.2	17842.1	18230.3	20189.4	24567.9	27631.4	25976.3
50°	21131.3	21272.7	21480.4	21239.6	20553.5	19861.4	19936.6	21862.5	26102.6	29578.4	27860.1
52.5°	20746.1	21013.9	21579.7	21964.9	22229.7	22085.2	21883.6	23523.7	27547.1	31335.8	29641.6
55°	19310.7	19686.8	20625.7	21555.6	22906.8	23957.0	24221.8	25365.4	28955.5	32882.6	31326.8
57.5°	16695.6	17306.5	18149.1	20029.9	22304.9	24862.8	26948.3	27920.3	30448.1	34534.7	33090.2
60°	12211.7	13030.3	14077.5	16876.1	20198.4	24378.3	29268.4	31844.4	32569.6	36674.3	35386.3
62.5°	7815.1	8320.7	9283.7	11919.8	15738.6	21895.6	29978.6	36749.5	36165.7	40183.1	38829.0
65°	5350.5	5675.5	6557.3	8037.8	10174.4	16298.4	28076.7	40426.9	41877.4	45744.3	44715.1
67.5°	3888.0	4134.8	4887.1	6184.1	6629.5	9644.8	21787.3	40258.4	47429.5	51474.0	49873.1
70°	2834.8	3009.3	3641.2	4887.1	5100.8	5365.6	13198.8	34221.7	47309.2	52996.7	51079.8
72.5°	2100.5	2220.9	2645.2	3791.7	4128.8	3623.2	6533.2	24871.8	40652.6	47935.1	46397.3
75°	1519.7	1610.0	1922.9	2901.0	3304.2	2759.5	3259.1	14534.9	28356.6	33719.2	33990.0
77.5°	1161.6	1230.8	1435.4	2124.6	2645.2	2070.4	2022.2	6686.7	13445.5	13511.7	14270.1
80°	932.9	978.0	1089.4	1495.6	2028.3	1549.8	1318.1	2699.3	4249.1	3596.1	3773.7
82.5°	686.1	761.4	920.8	1050.2	1450.5	1068.3	803.5	1363.2	1616.0	1390.3	1402.3
85°	391.2	442.4	556.7	752.3	926.9	653.0	460.4	604.9	752.3	616.9	550.7
87.5°	138.4	180.6	195.6	294.9	403.2	270.8	177.5	174.5	246.8	183.6	153.5
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°	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7	8314.7
2.5°	8374.9	8359.8	8299.6	8218.4	8134.1	8052.9	8025.8	7968.6	7929.5	7908.4	7932.5
5°	8543.4	8495.2	8353.8	8173.3	7983.7	7779.0	7634.6	7502.2	7405.9	7315.6	7351.7
7.5°	8784.1	8699.9	8456.1	8140.1	7803.1	7463.1	7210.3	7017.7	6888.3	6804.0	6822.1
10°	9064.0	8934.6	8561.5	8089.0	7568.4	7080.9	6783.0	6617.4	6536.2	6491.1	6503.1
12.5°	9386.0	9202.4	8669.8	7971.6	7210.3	6653.6	6448.9	6400.8	6403.8	6406.8	6412.8
15°	9783.2	9527.4	8757.1	7715.8	6743.8	6325.5	6289.4	6367.7	6448.9	6488.0	6485.0
17.5°	10231.6	9870.5	8772.1	7294.5	6286.4	6114.9	6229.2	6397.8	6521.1	6575.3	6587.4
20°	10713.1	10219.6	8663.8	6698.7	5910.3	5943.4	6148.0	6364.7	6500.1	6569.3	6587.4
22.5°	11263.8	10592.7	8405.0	6072.8	5603.3	5756.8	5997.5	6208.2	6349.6	6418.8	6436.9
25°	11892.7	11011.0	7998.7	5546.1	5338.5	5546.1	5786.9	5961.4	6075.8	6139.0	6157.0
27.5°	12590.9	11447.4	7457.0	5127.8	5106.8	5329.5	5528.1	5663.5	5723.7	5771.8	5789.9
30°	13292.1	11844.6	6801.0	4811.9	4905.2	5115.8	5257.2	5317.4	5335.5	5344.5	5365.6
32.5°	14050.4	12187.7	6111.9	4550.1	4712.6	4908.2	4992.4	5019.5	4935.2	4878.1	4896.1
35°	14968.2	12554.8	5437.8	4342.4	4523.0	4691.5	4718.6	4694.5	4595.2	4477.8	4483.9
37.5°	16102.7	13012.2	4899.1	4195.0	4345.4	4456.8	4423.7	4417.6	4426.7	4288.2	4297.3
40°	17493.0	13608.0	4504.9	4080.6	4201.0	4225.1	4131.8	4182.9	4228.1	4017.4	4023.4
42.5°	19036.8	14327.3	4255.1	4002.4	4080.6	4023.4	3879.0	3936.2	3930.1	3653.3	3650.3
45°	20610.7	15109.7	4167.9	3945.2	3969.3	3854.9	3695.4	3710.5	3584.1	3334.3	3343.3
47.5°	22175.5	15949.3	4222.0	3897.0	3830.8	3701.4	3578.1	3511.8	3325.3	3138.7	3138.7
50°	23710.3	16831.0	4420.7	3800.7	3641.2	3566.0	3475.7	3358.4	3159.8	3000.3	2988.2
52.5°	25133.7	17718.7	4643.3	3641.2	3403.5	3448.7	3391.5	3256.1	3060.5	2898.0	2901.0
55°	26481.8	18606.5	4730.6	3421.6	3180.8	3346.3	3313.2	3063.5	2828.7	2696.3	2684.3
57.5°	27950.4	19674.8	4634.3	3141.7	3000.3	3229.0	3102.6	2825.7	2690.3	2591.0	2582.0
60°	29984.6	21351.0	4426.7	2795.6	2828.7	3054.4	2837.8	2723.4	2576.0	2464.6	2458.6
62.5°	33364.1	24477.6	4092.6	2452.6	2627.1	2795.6	2711.4	2597.0	2446.6	2338.2	2338.2
65°	38359.5	28823.0	3463.7	2184.7	2401.4	2542.9	2576.0	2461.6	2305.1	2190.8	2196.8
67.5°	42572.5	31549.5	2621.1	1962.1	2169.7	2338.2	2431.5	2320.2	2154.7	2043.3	2046.3
70°	42340.8	29569.4	2001.2	1742.4	1965.1	2136.6	2257.0	2169.7	1992.2	1886.8	1895.9
72.5°	37607.2	24736.4	1619.0	1519.7	1757.4	1926.0	2070.4	2004.2	1823.6	1721.3	1721.3
75°	27628.4	17559.2	1294.0	1294.0	1498.6	1706.3	1865.8	1823.6	1658.1	1585.9	1564.8
77.5°	11646.0	7366.8	1014.1	1074.3	1245.8	1465.5	1664.1	1679.2	1534.7	1625.0	1474.6
80°	3096.6	2031.3	773.4	845.6	978.0	1209.7	1447.5	1441.5	1285.0	1200.7	1116.4
82.5°	1179.6	800.5	550.7	595.8	707.2	926.9	1146.5	1182.7	1026.2	887.7	887.7
85°	454.4	343.1	340.1	358.1	412.3	613.9	866.7	896.8	773.4	656.0	677.1
87.5°	117.4	102.3	126.4	120.4	189.6	328.0	496.5	514.6	472.5	273.8	391.2
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)