

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: P943985

Luminaire Tested: **GALN-SB8D-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943985
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-SB8D-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67352 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 584.9
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



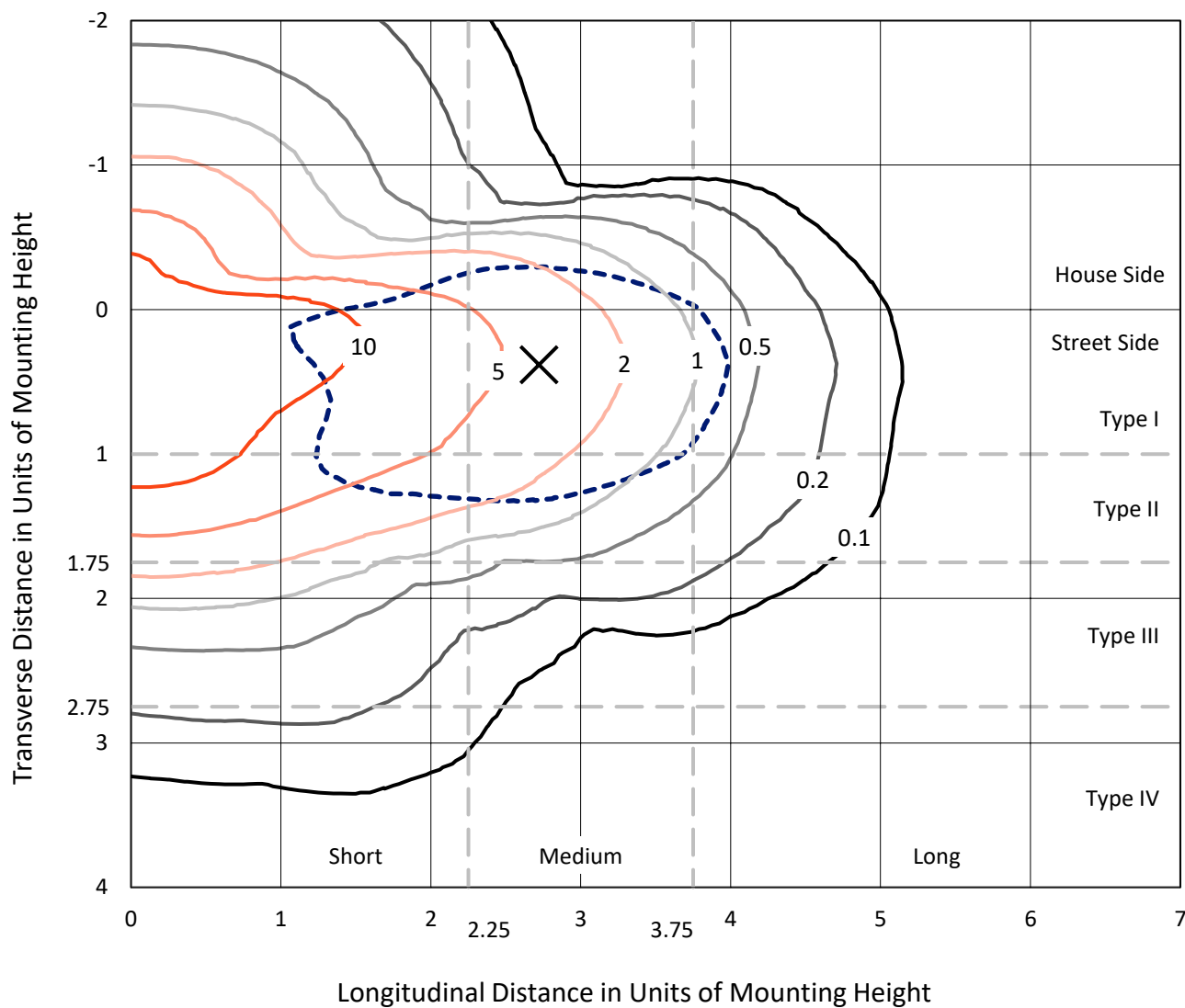
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Iso-Footcandle Lines of Horizontal Illumination

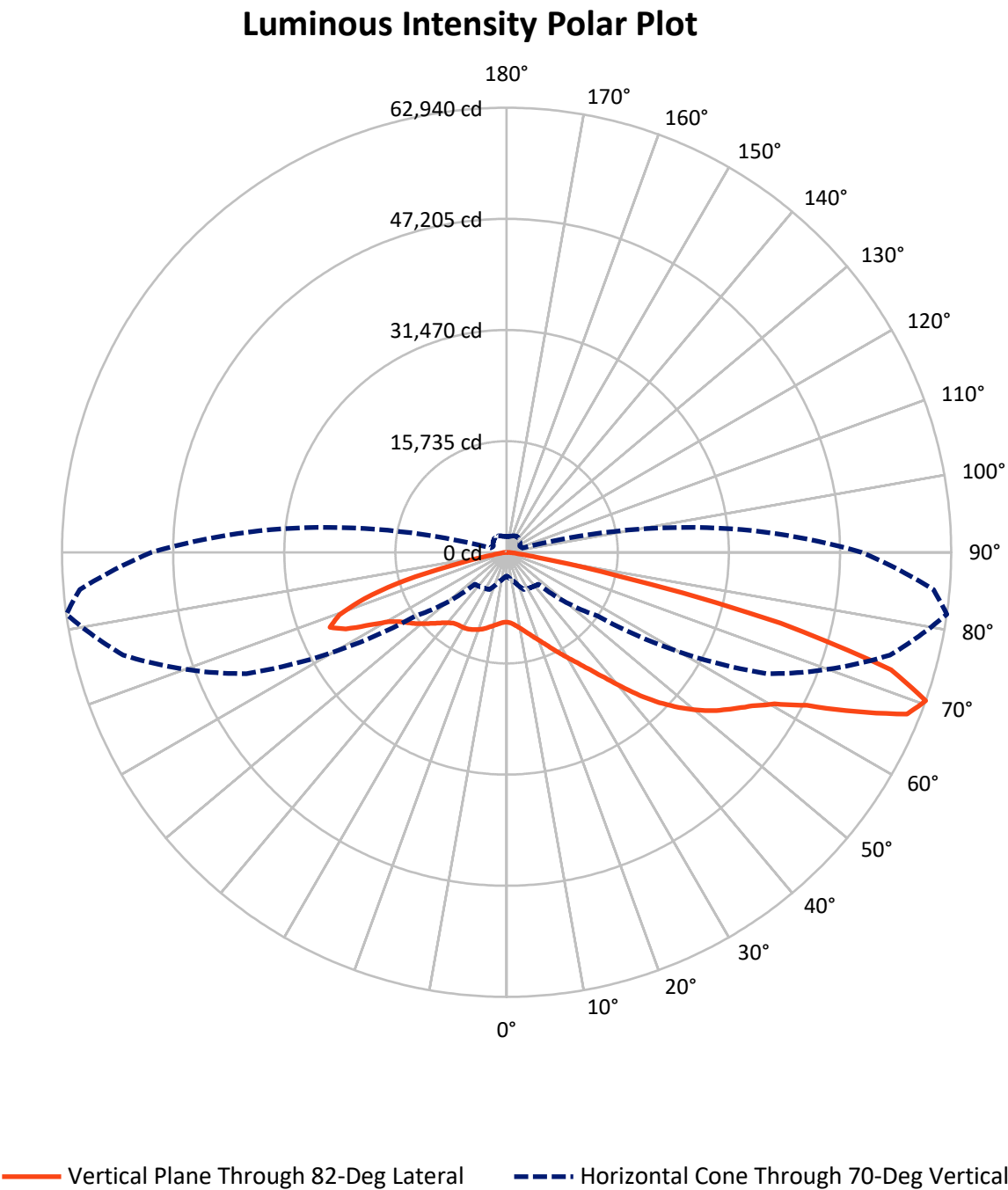
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc
Type II - Medium - N/A

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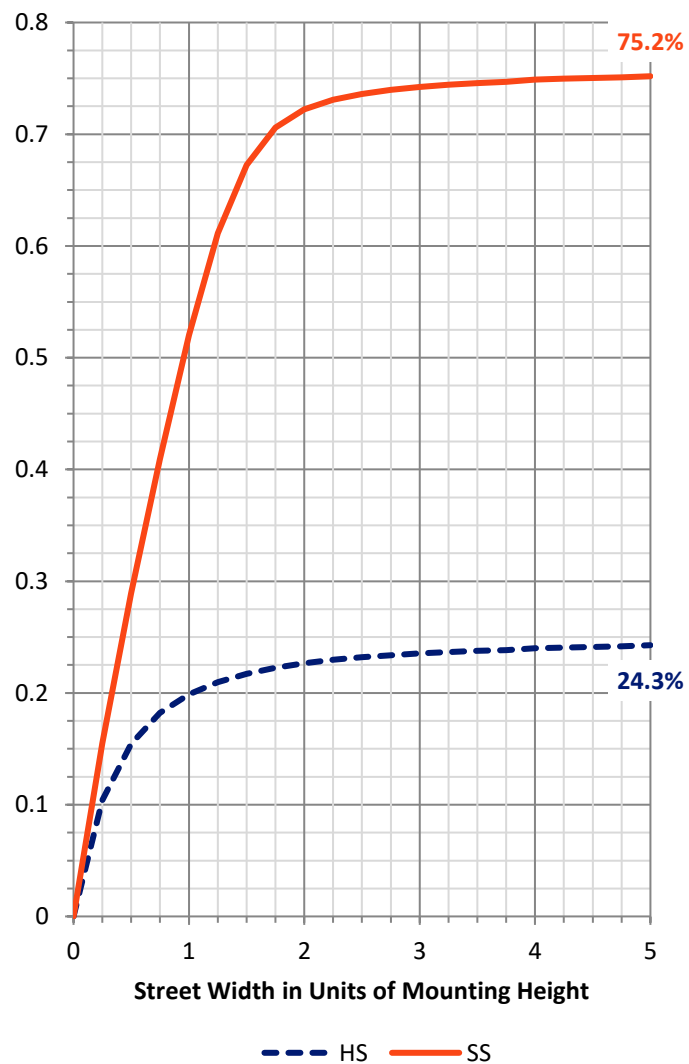
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16603.9	0.0	16603.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	50748.1	0.0	50748.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	67352.0	0.0	67352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	932.3	1.4
10°-20°	2678.7	4.0
20°-30°	4481.1	6.7
30°-40°	7000.7	10.4
40°-50°	11149.4	16.6
50°-60°	15515.8	23.0
60°-70°	16230.2	24.1
70°-80°	8482.8	12.6
80°-90°	880.8	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°	67352.0	100.0
0°-180°	67352.0	100.0

Coefficient of Utilization



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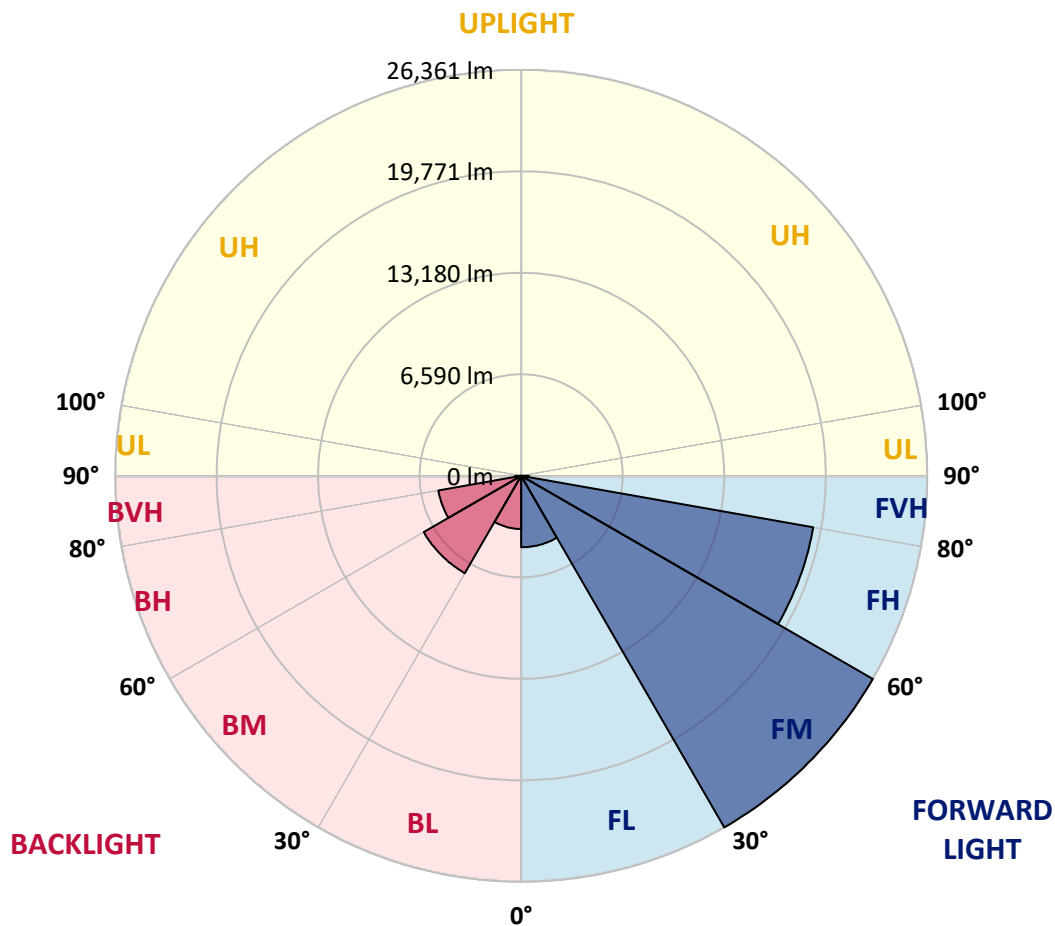
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4637.9	6.9			
FM	(30°-60°)	26360.9	39.1			
FH	(60°-80°)	19256.1	28.6			G5
FVH	(80°-90°)	493.1	0.7			G3/500
BL	(0°-30°)	3454.2	5.1	B4/5000		
BM	(30°-60°)	7305.1	10.8	B4/8500		
BH	(60°-80°)	5456.9	8.1	B5		G5
BVH	(80°-90°)	387.7	0.6			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6
2.5°	10110.5	10167.7	10149.8	10132.0	10132.0	10106.9	10103.4	10067.6	10039.0	9992.6	9981.9
5°	10239.2	10299.9	10292.8	10307.1	10353.5	10364.3	10375.0	10353.5	10296.4	10239.2	10214.2
7.5°	10124.8	10192.7	10214.2	10299.9	10442.9	10571.6	10668.0	10707.4	10653.8	10571.6	10532.2
10°	9738.8	9813.9	9888.9	10092.7	10346.4	10650.2	10907.5	11061.2	11050.5	10971.8	10903.9
12.5°	8956.2	9034.8	9195.6	9592.3	10056.9	10593.0	11071.9	11393.5	11504.3	11447.2	11329.2
15°	8330.7	8398.6	8520.1	8927.6	9531.6	10346.4	11132.7	11758.1	12040.4	12008.3	11865.3
17.5°	8312.9	8341.4	8416.5	8609.5	9074.1	9960.4	11068.3	12115.5	12655.1	12651.6	12472.9
20°	8627.4	8638.1	8681.0	8720.3	8984.7	9667.4	10903.9	12412.1	13344.9	13344.9	13151.9
22.5°	9063.4	9056.2	9099.1	9063.4	9192.0	9642.3	10800.3	12673.0	14113.3	14170.5	13927.4
25°	9717.4	9681.7	9670.9	9588.7	9613.8	9874.6	10914.6	12969.6	15024.6	15142.6	14838.8
27.5°	10589.4	10532.2	10492.9	10303.5	10239.2	10353.5	11264.9	13327.0	16039.6	16243.3	15857.3
30°	11725.9	11622.3	11565.1	11236.3	11004.0	11021.9	11793.8	13802.3	17101.0	17429.8	16940.2
32.5°	13277.0	13116.2	12962.5	12422.8	11997.5	11858.2	12476.4	14459.9	18251.8	18777.2	18148.2
35°	15013.9	14885.2	14720.8	13888.1	13234.1	12912.4	13398.5	15378.4	19599.2	20431.9	19613.5
37.5°	16686.5	16575.7	16654.3	15532.1	14688.7	14220.5	14606.5	16611.4	21261.0	22490.5	21450.5
40°	18416.2	18330.5	18341.2	17269.0	16286.2	15760.8	16071.8	18158.9	23165.9	24938.6	23659.1
42.5°	20296.1	20231.8	20017.3	19066.7	17962.3	17472.7	17758.6	19945.9	25210.2	27726.2	26082.2
45°	22401.1	22361.8	22161.7	21071.6	19806.5	19256.1	19642.1	21918.6	27265.2	30349.4	28516.0
47.5°	24220.2	24252.4	24227.4	23308.9	21997.3	21189.6	21650.6	23977.2	29177.2	32815.4	30849.8
50°	25095.8	25263.8	25510.4	25224.5	24409.6	23587.6	23677.0	25964.3	30999.9	35127.7	33087.0
52.5°	24638.4	24956.4	25628.3	26085.8	26400.3	26228.7	25989.3	27937.1	32715.3	37214.9	35202.8
55°	22933.6	23380.4	24495.4	25599.7	27204.4	28451.7	28766.2	30124.3	34387.9	39051.8	37204.1
57.5°	19827.9	20553.4	21554.1	23787.8	26489.6	29527.4	32004.1	33158.5	36160.6	41013.9	39298.4
60°	14502.8	15474.9	16718.6	20042.3	23987.9	28952.0	34759.6	37818.9	38680.2	43554.9	42025.3
62.5°	9281.4	9881.8	11025.4	14156.2	18691.4	26003.6	35603.0	43644.3	42951.0	47722.1	46113.8
65°	6354.4	6740.3	7787.5	9545.8	12083.3	19356.2	33344.4	48011.6	49734.2	54326.6	53104.4
67.5°	4617.5	4910.5	5804.0	7344.3	7873.3	11454.3	25874.9	47811.4	56328.0	61131.3	59230.0
70°	3366.6	3573.9	4324.4	5804.0	6057.7	6372.2	15675.1	40642.2	56185.1	62939.7	60663.1
72.5°	2494.6	2637.5	3141.4	4503.1	4903.4	4303.0	7758.9	29538.2	48279.6	56928.4	55102.2
75°	1804.8	1912.0	2283.7	3445.2	3924.1	3277.3	3870.5	17261.9	33676.7	40045.4	40367.0
77.5°	1379.5	1461.7	1704.7	2523.2	3141.4	2458.8	2401.7	7941.2	15968.1	16046.7	16947.4
80°	1107.9	1161.5	1293.7	1776.2	2408.8	1840.6	1565.4	3205.8	5046.3	4270.8	4481.7
82.5°	814.8	904.2	1093.6	1247.3	1722.6	1268.7	954.2	1619.0	1919.2	1651.1	1665.4
85°	464.6	525.4	661.2	893.5	1100.8	775.5	546.8	718.4	893.5	732.6	654.0
87.5°	164.4	214.4	232.3	350.2	478.9	321.6	210.9	207.3	293.1	218.0	182.3
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°	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6	9874.6
2.5°	9946.1	9928.3	9856.8	9760.3	9660.2	9563.7	9531.6	9463.6	9417.2	9392.2	9420.8
5°	10146.3	10089.1	9921.1	9706.7	9481.5	9238.5	9066.9	8909.7	8795.3	8688.1	8731.0
7.5°	10432.2	10332.1	10042.6	9667.4	9267.1	8863.2	8563.0	8334.3	8180.6	8080.6	8102.0
10°	10764.5	10610.9	10167.7	9606.6	8988.3	8409.4	8055.5	7859.0	7762.5	7708.9	7723.2
12.5°	11146.9	10928.9	10296.4	9467.2	8563.0	7901.9	7658.8	7601.7	7605.2	7608.8	7615.9
15°	11618.7	11314.9	10400.0	9163.4	8009.1	7512.3	7469.4	7562.3	7658.8	7705.3	7701.7
17.5°	12151.2	11722.3	10417.9	8663.1	7465.8	7262.1	7397.9	7598.1	7744.6	7808.9	7823.2
20°	12723.0	12136.9	10289.2	7955.5	7019.1	7058.4	7301.4	7558.8	7719.6	7801.8	7823.2
22.5°	13377.1	12580.1	9981.9	7212.1	6654.6	6836.8	7122.8	7372.9	7540.9	7623.1	7644.5
25°	14124.0	13076.8	9499.4	6586.7	6340.1	6586.7	6872.6	7079.9	7215.7	7290.7	7312.2
27.5°	14953.1	13595.1	8856.1	6089.9	6064.9	6329.4	6565.2	6726.1	6797.5	6854.7	6876.2
30°	15785.9	14066.8	8077.0	5714.6	5825.4	6075.6	6243.6	6315.1	6336.5	6347.2	6372.2
32.5°	16686.5	14474.2	7258.6	5403.7	5596.7	5829.0	5929.1	5961.2	5861.2	5793.3	5814.7
35°	17776.5	14910.2	6458.0	5157.1	5371.5	5571.7	5603.9	5575.3	5457.3	5317.9	5325.1
37.5°	19123.9	15453.5	5818.3	4982.0	5160.7	5292.9	5253.6	5246.5	5257.2	5092.8	5103.5
40°	20775.0	16161.1	5350.1	4846.2	4989.1	5017.7	4906.9	4967.7	5021.3	4771.1	4778.3
42.5°	22608.4	17015.3	5053.5	4753.3	4846.2	4778.3	4606.7	4674.6	4667.5	4338.7	4335.1
45°	24477.5	17944.5	4949.8	4685.4	4714.0	4578.1	4388.7	4406.6	4256.5	3959.9	3970.6
47.5°	26336.0	18941.6	5014.2	4628.2	4549.6	4395.9	4249.3	4170.7	3949.1	3727.6	3727.6
50°	28158.6	19988.7	5250.0	4513.8	4324.4	4235.1	4127.8	3988.5	3752.6	3563.2	3548.9
52.5°	29849.1	21043.0	5514.5	4324.4	4042.1	4095.7	4027.8	3866.9	3634.6	3441.7	3445.2
55°	31450.2	22097.3	5618.1	4063.5	3777.6	3974.2	3934.8	3638.2	3359.5	3202.2	3187.9
57.5°	33194.2	23366.1	5503.8	3731.1	3563.2	3834.8	3684.7	3355.9	3195.1	3077.1	3066.4
60°	35610.2	25356.7	5257.2	3320.1	3359.5	3627.5	3370.2	3234.4	3059.2	2927.0	2919.9
62.5°	39623.7	29070.0	4860.5	2912.7	3120.0	3320.1	3220.1	3084.3	2905.6	2776.9	2776.9
65°	45556.3	34230.7	4113.5	2594.6	2852.0	3019.9	3059.2	2923.4	2737.6	2601.8	2608.9
67.5°	50559.8	37468.6	3112.9	2330.2	2576.8	2776.9	2887.7	2755.5	2558.9	2426.7	2430.2
70°	50284.6	35117.0	2376.6	2069.3	2333.7	2537.5	2680.4	2576.8	2365.9	2240.8	2251.5
72.5°	44662.8	29377.3	1922.8	1804.8	2087.1	2287.3	2458.8	2380.2	2165.8	2044.3	2044.3
75°	32811.8	20853.6	1536.8	1536.8	1779.8	2026.4	2215.8	2165.8	1969.2	1883.4	1858.4
77.5°	13830.9	8748.9	1204.4	1275.9	1479.6	1740.5	1976.4	1994.2	1822.7	1929.9	1751.2
80°	3677.5	2412.4	918.5	1004.3	1161.5	1436.7	1719.0	1711.9	1526.0	1426.0	1325.9
82.5°	1401.0	950.7	654.0	707.6	839.9	1100.8	1361.7	1404.5	1218.7	1054.3	1054.3
85°	539.7	407.4	403.8	425.3	489.6	729.1	1029.3	1065.0	918.5	779.1	804.1
87.5°	139.4	121.5	150.1	143.0	225.2	389.6	589.7	611.1	561.1	325.2	464.6
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)