

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: P941615

Luminaire Tested: **GALN-SB5B-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941615
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-SB5B-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26142 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 182.7
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

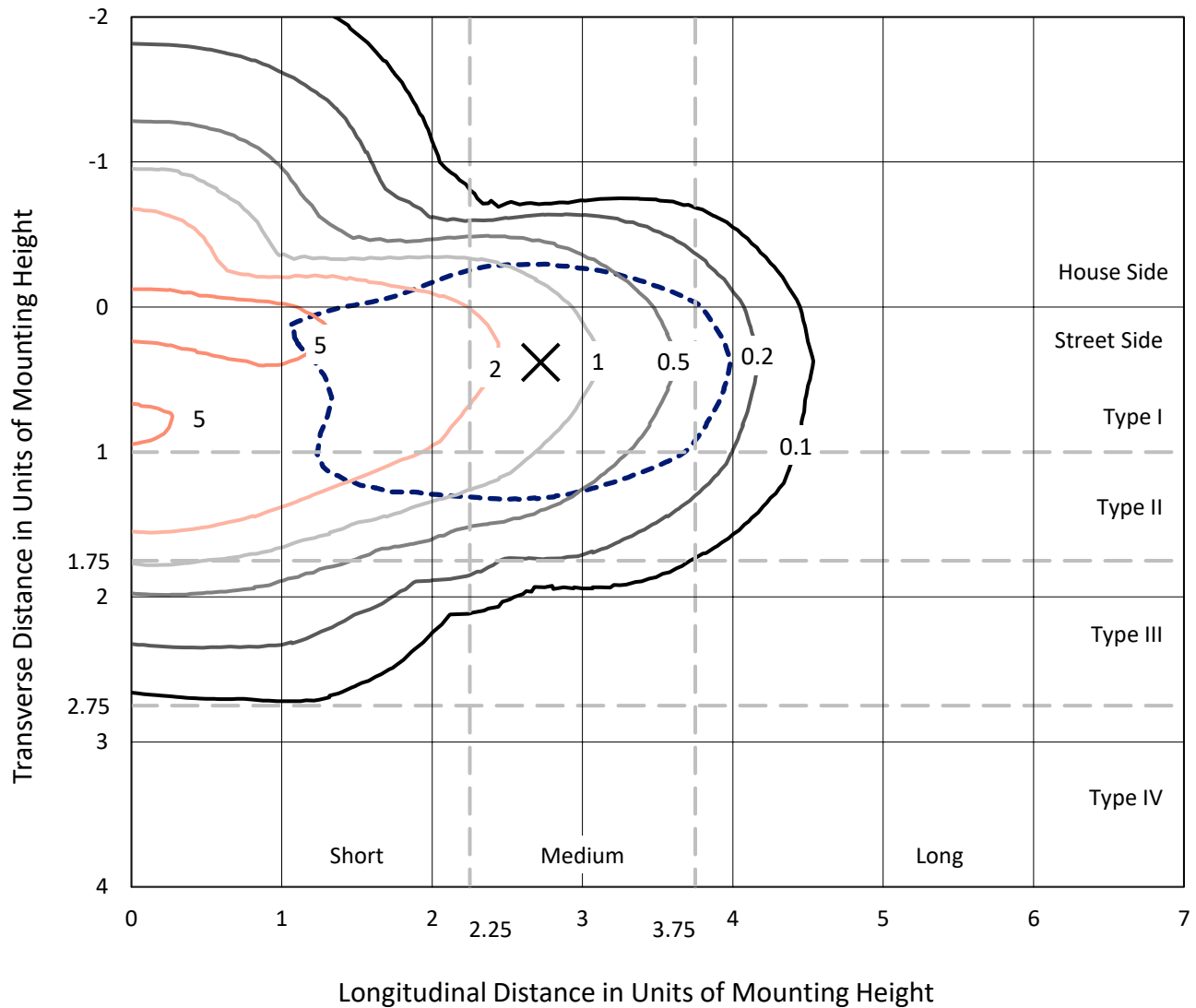


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Iso-Footcandle Lines of Horizontal Illumination

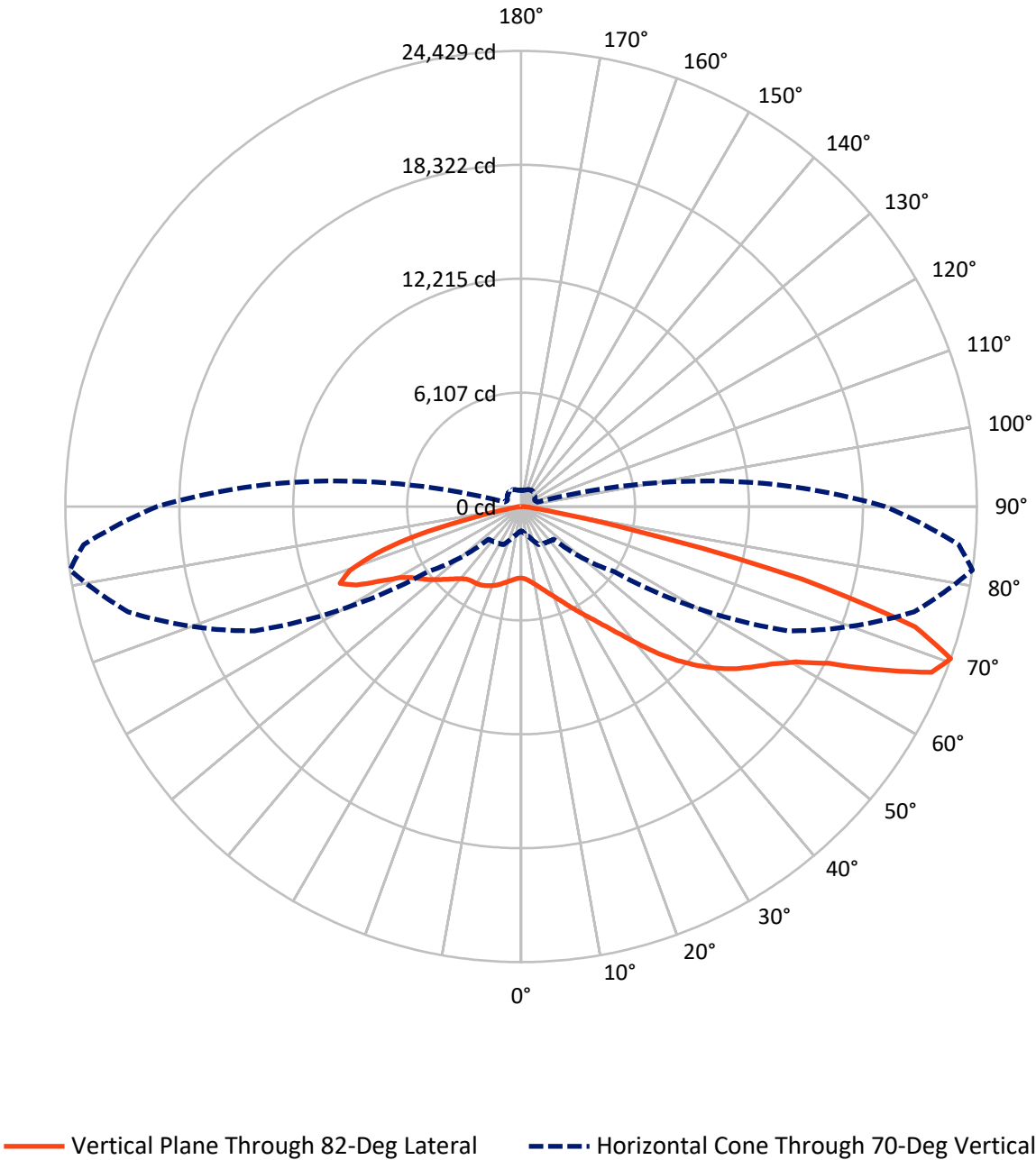
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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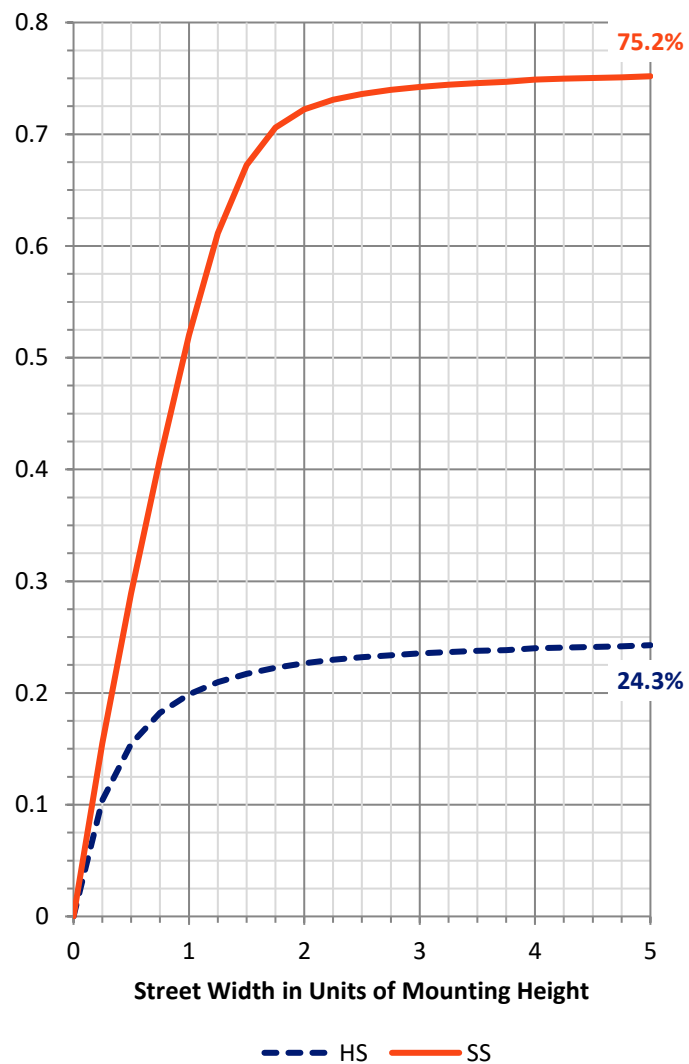
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6444.6	0.0	6444.6
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	19697.3	0.0	19697.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	26142.0	0.0	26142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.9	1.4
10°-20°	1039.7	4.0
20°-30°	1739.3	6.7
30°-40°	2717.3	10.4
40°-50°	4327.5	16.6
50°-60°	6022.3	23.0
60°-70°	6299.6	24.1
70°-80°	3292.5	12.6
80°-90°	341.9	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°	26142.0	100.0
0°-180°	26142.0	100.0

Coefficient of Utilization



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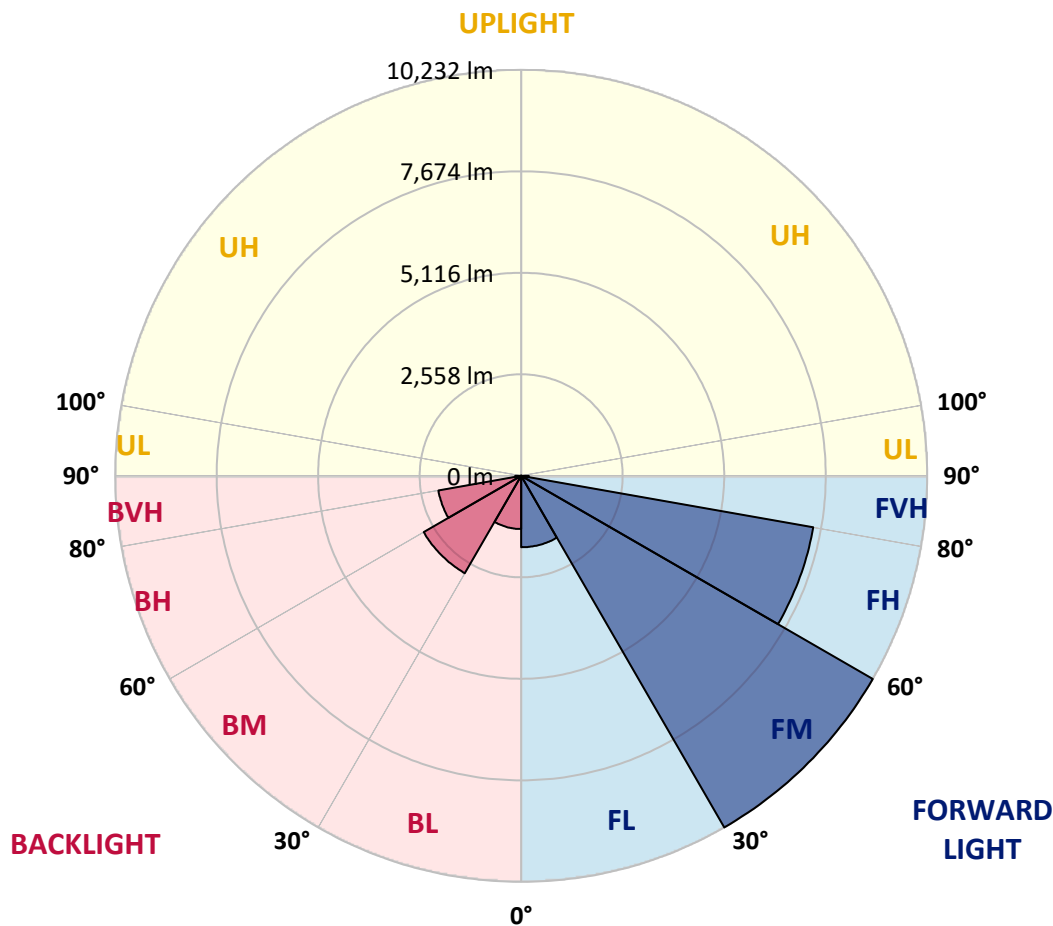
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1800.2	6.9			
FM	(30°-60°)	10231.7	39.1			
FH	(60°-80°)	7474.1	28.6			G3/7500
FVH	(80°-90°)	191.4	0.7			G2/225
BL	(0°-30°)	1340.7	5.1	B3/2500		
BM	(30°-60°)	2835.4	10.8	B3/5000		
BH	(60°-80°)	2118.0	8.1	B3/2500		G3/2500
BVH	(80°-90°)	150.5	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	3924.3	3946.5	3939.6	3932.6	3932.6	3922.9	3921.5	3907.7	3896.6	3878.5	3874.4
5°	3974.2	3997.8	3995.0	4000.6	4018.6	4022.8	4026.9	4018.6	3996.4	3974.2	3964.5
7.5°	3929.8	3956.2	3964.5	3997.8	4053.3	4103.2	4140.7	4156.0	4135.1	4103.2	4088.0
10°	3780.0	3809.2	3838.3	3917.4	4015.9	4133.8	4233.6	4293.3	4289.1	4258.6	4232.2
12.5°	3476.2	3506.8	3569.2	3723.2	3903.5	4111.6	4297.4	4422.3	4465.3	4443.1	4397.3
15°	3233.5	3259.8	3307.0	3465.1	3699.6	4015.9	4321.0	4563.8	4673.4	4660.9	4605.4
17.5°	3226.6	3237.6	3266.8	3341.7	3522.0	3866.0	4296.1	4702.5	4912.0	4910.6	4841.2
20°	3348.6	3352.8	3369.4	3384.7	3487.3	3752.3	4232.2	4817.6	5179.7	5179.7	5104.8
22.5°	3517.9	3515.1	3531.7	3517.9	3567.8	3742.6	4192.0	4918.9	5477.9	5500.1	5405.8
25°	3771.7	3757.8	3753.7	3721.8	3731.5	3832.7	4236.4	5034.0	5831.7	5877.4	5759.5
27.5°	4110.2	4088.0	4072.7	3999.2	3974.2	4018.6	4372.4	5172.7	6225.6	6304.7	6154.9
30°	4551.3	4511.1	4488.9	4361.3	4271.1	4278.0	4577.7	5357.2	6637.6	6765.2	6575.2
32.5°	5153.3	5090.9	5031.3	4821.8	4656.7	4602.6	4842.6	5612.5	7084.3	7288.2	7044.0
35°	5827.5	5777.6	5713.7	5390.5	5136.7	5011.8	5200.5	5969.0	7607.2	7930.4	7612.8
37.5°	6476.7	6433.7	6464.2	6028.6	5701.3	5519.5	5669.4	6447.6	8252.3	8729.4	8325.8
40°	7148.1	7114.8	7118.9	6702.8	6321.3	6117.4	6238.1	7048.2	8991.6	9679.7	9183.0
42.5°	7877.7	7852.8	7769.5	7400.5	6971.9	6781.9	6892.8	7741.8	9785.1	10761.6	10123.5
45°	8694.8	8679.5	8601.8	8178.7	7687.7	7474.1	7623.9	8507.5	10582.7	11779.8	11068.2
47.5°	9400.8	9413.3	9403.6	9047.1	8538.0	8224.5	8403.5	9306.5	11324.8	12737.0	11974.0
50°	9740.7	9805.9	9901.6	9790.6	9474.4	9155.3	9190.0	10077.8	12032.3	13634.5	12842.4
52.5°	9563.1	9686.6	9947.4	10124.9	10247.0	10180.4	10087.5	10843.5	12698.1	14444.6	13663.6
55°	8901.5	9074.9	9507.6	9936.3	10559.1	11043.2	11165.3	11692.4	13347.3	15157.6	14440.4
57.5°	7696.0	7977.6	8366.0	9233.0	10281.7	11460.8	12422.1	12870.1	14035.4	15919.1	15253.3
60°	5629.1	6006.4	6489.2	7779.2	9310.7	11237.4	13491.6	14679.0	15013.3	16905.4	16311.7
62.5°	3602.5	3835.5	4279.4	5494.6	7254.9	10093.0	13819.0	16940.1	16671.0	18522.8	17898.6
65°	2466.4	2616.2	3022.6	3705.1	4690.0	7512.9	12942.3	18635.2	19303.8	21086.3	20611.9
67.5°	1792.2	1906.0	2252.8	2850.6	3055.9	4445.9	10043.1	18557.5	21863.1	23727.5	22989.5
70°	1306.7	1387.2	1678.5	2252.8	2351.2	2473.3	6084.1	15774.9	21807.7	24429.4	23545.8
72.5°	968.2	1023.7	1219.3	1747.8	1903.2	1670.1	3011.5	11464.9	18739.2	22096.2	21387.4
75°	700.5	742.1	886.4	1337.2	1523.1	1272.0	1502.3	6700.0	13071.3	15543.2	15668.1
77.5°	535.4	567.4	661.7	979.3	1219.3	954.4	932.2	3082.3	6197.9	6228.4	6577.9
80°	430.0	450.8	502.2	689.4	935.0	714.4	607.6	1244.3	1958.7	1657.7	1739.5
82.5°	316.3	351.0	424.5	484.1	668.6	492.4	370.4	628.4	744.9	640.9	646.4
85°	180.3	203.9	256.6	346.8	427.2	301.0	212.2	278.8	346.8	284.4	253.9
87.5°	63.8	83.2	90.2	135.9	185.9	124.8	81.8	80.5	113.7	84.6	70.7
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°	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7	3832.7
2.5°	3860.5	3853.6	3825.8	3788.4	3749.5	3712.1	3699.6	3673.2	3655.2	3645.5	3656.6
5°	3938.2	3916.0	3850.8	3767.5	3680.2	3585.8	3519.2	3458.2	3413.8	3372.2	3388.9
7.5°	4049.1	4010.3	3897.9	3752.3	3596.9	3440.2	3323.7	3234.9	3175.2	3136.4	3144.7
10°	4178.1	4118.5	3946.5	3728.7	3488.7	3264.0	3126.7	3050.4	3012.9	2992.1	2997.7
12.5°	4326.6	4242.0	3996.4	3674.6	3323.7	3067.0	2972.7	2950.5	2951.9	2953.3	2956.1
15°	4509.7	4391.8	4036.7	3556.7	3108.6	2915.8	2899.2	2935.2	2972.7	2990.7	2989.3
17.5°	4716.4	4549.9	4043.6	3362.5	2897.8	2818.7	2871.4	2949.1	3006.0	3031.0	3036.5
20°	4938.3	4710.8	3993.7	3087.8	2724.4	2739.7	2834.0	2933.9	2996.3	3028.2	3036.5
22.5°	5192.2	4882.8	3874.4	2799.3	2582.9	2653.7	2764.6	2861.7	2926.9	2958.8	2967.2
25°	5482.1	5075.6	3687.1	2556.5	2460.8	2556.5	2667.5	2748.0	2800.7	2829.8	2838.1
27.5°	5803.9	5276.8	3437.4	2363.7	2354.0	2456.7	2548.2	2610.6	2638.4	2660.6	2668.9
30°	6127.1	5459.9	3135.0	2218.1	2261.1	2358.2	2423.4	2451.1	2459.4	2463.6	2473.3
32.5°	6476.7	5618.0	2817.3	2097.4	2172.3	2262.5	2301.3	2313.8	2275.0	2248.6	2256.9
35°	6899.8	5787.3	2506.6	2001.7	2084.9	2162.6	2175.1	2164.0	2118.2	2064.1	2066.9
37.5°	7422.7	5998.1	2258.3	1933.7	2003.1	2054.4	2039.1	2036.4	2040.5	1976.7	1980.9
40°	8063.6	6272.8	2076.6	1881.0	1936.5	1947.6	1904.6	1928.2	1949.0	1851.9	1854.6
42.5°	8775.2	6604.3	1961.5	1844.9	1881.0	1854.6	1788.1	1814.4	1811.6	1684.0	1682.6
45°	9500.7	6965.0	1921.2	1818.6	1829.7	1777.0	1703.4	1710.4	1652.1	1537.0	1541.1
47.5°	10222.0	7352.0	1946.2	1796.4	1765.9	1706.2	1649.3	1618.8	1532.8	1446.8	1446.8
50°	10929.5	7758.4	2037.7	1752.0	1678.5	1643.8	1602.2	1548.1	1456.5	1383.0	1377.5
52.5°	11585.6	8167.6	2140.4	1678.5	1568.9	1589.7	1563.3	1500.9	1410.7	1335.8	1337.2
55°	12207.1	8576.9	2180.6	1577.2	1466.2	1542.5	1527.3	1412.1	1303.9	1242.9	1237.4
57.5°	12884.0	9069.3	2136.2	1448.2	1383.0	1488.4	1430.2	1302.6	1240.1	1194.4	1190.2
60°	13821.7	9842.0	2040.5	1288.7	1303.9	1408.0	1308.1	1255.4	1187.4	1136.1	1133.3
62.5°	15379.5	11283.2	1886.5	1130.5	1211.0	1288.7	1249.8	1197.1	1127.8	1077.8	1077.8
65°	17682.2	13286.3	1596.6	1007.1	1107.0	1172.2	1187.4	1134.7	1062.6	1009.9	1012.6
67.5°	19624.3	14543.1	1208.2	904.4	1000.1	1077.8	1120.8	1069.5	993.2	941.9	943.3
70°	19517.4	13630.3	922.5	803.2	905.8	984.9	1040.4	1000.1	918.3	869.8	873.9
72.5°	17335.4	11402.5	746.3	700.5	810.1	887.8	954.4	923.9	840.6	793.5	793.5
75°	12735.6	8094.1	596.5	596.5	690.8	786.5	860.0	840.6	764.3	731.0	721.3
77.5°	5368.3	3395.8	467.5	495.2	574.3	675.6	767.1	774.0	707.5	749.1	679.7
80°	1427.4	936.3	356.5	389.8	450.8	557.6	667.2	664.5	592.3	553.5	514.6
82.5°	543.8	369.0	253.9	274.7	326.0	427.2	528.5	545.2	473.0	409.2	409.2
85°	209.5	158.1	156.7	165.1	190.0	283.0	399.5	413.4	356.5	302.4	312.1
87.5°	54.1	47.2	58.3	55.5	87.4	151.2	228.9	237.2	217.8	126.2	180.3
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)