

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: P941445

Luminaire Tested: **GALN-SB5A-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941445
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-SB5A-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20825 lumens
Efficiency: N/A
Efficacy: 147.0 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): 141.7
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



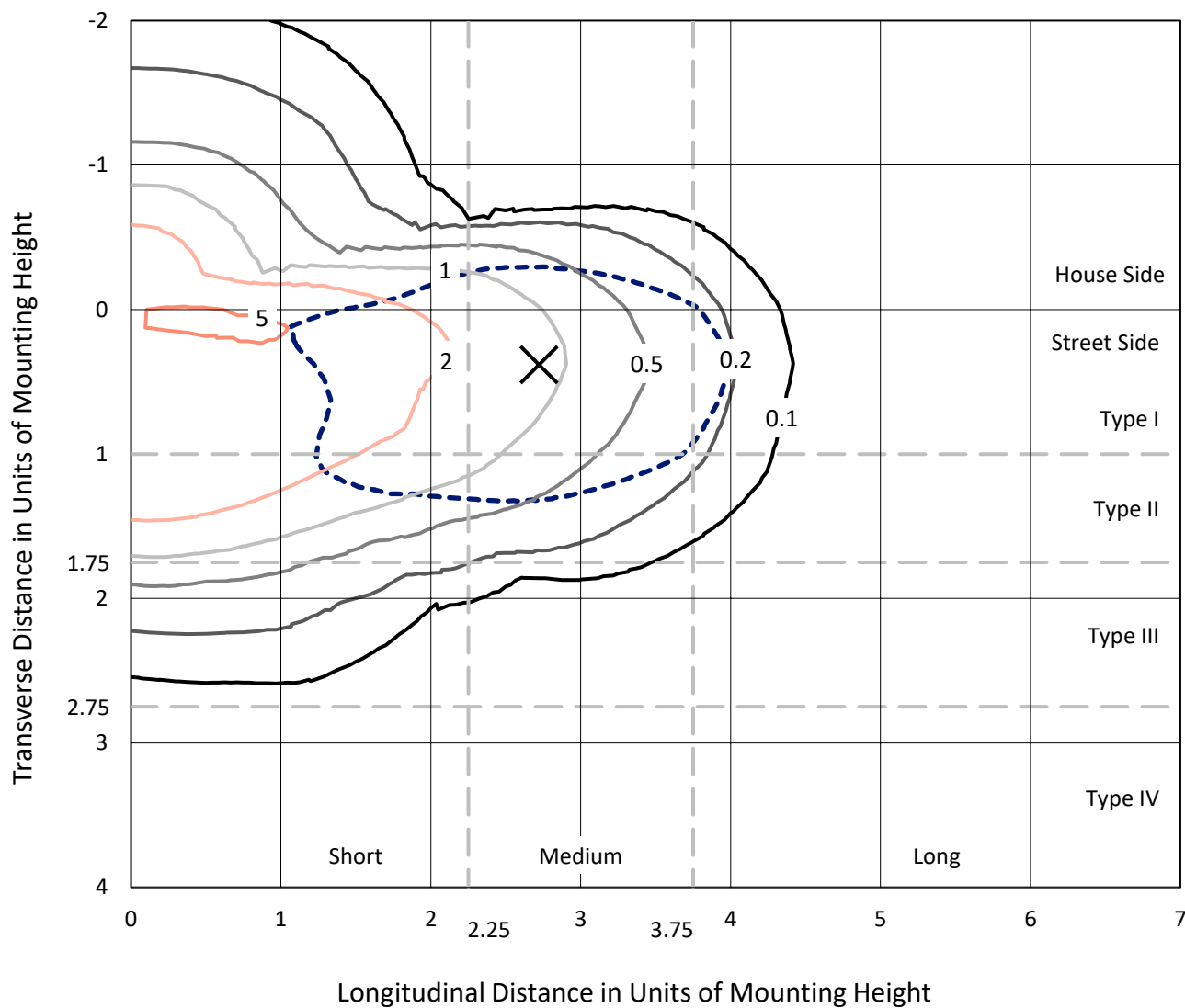
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Iso-Footcandle Lines of Horizontal Illumination

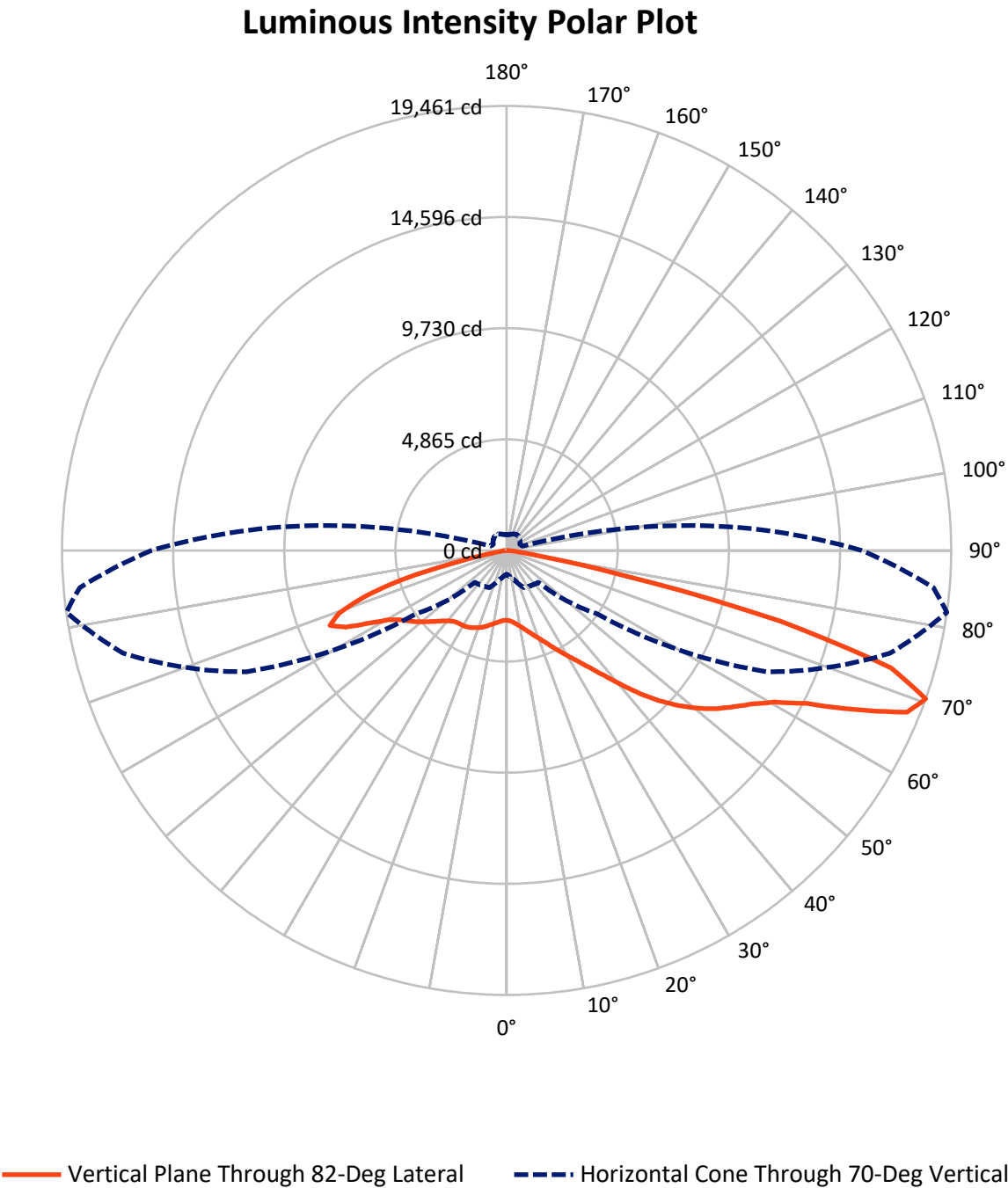
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type II - Medium - N/A

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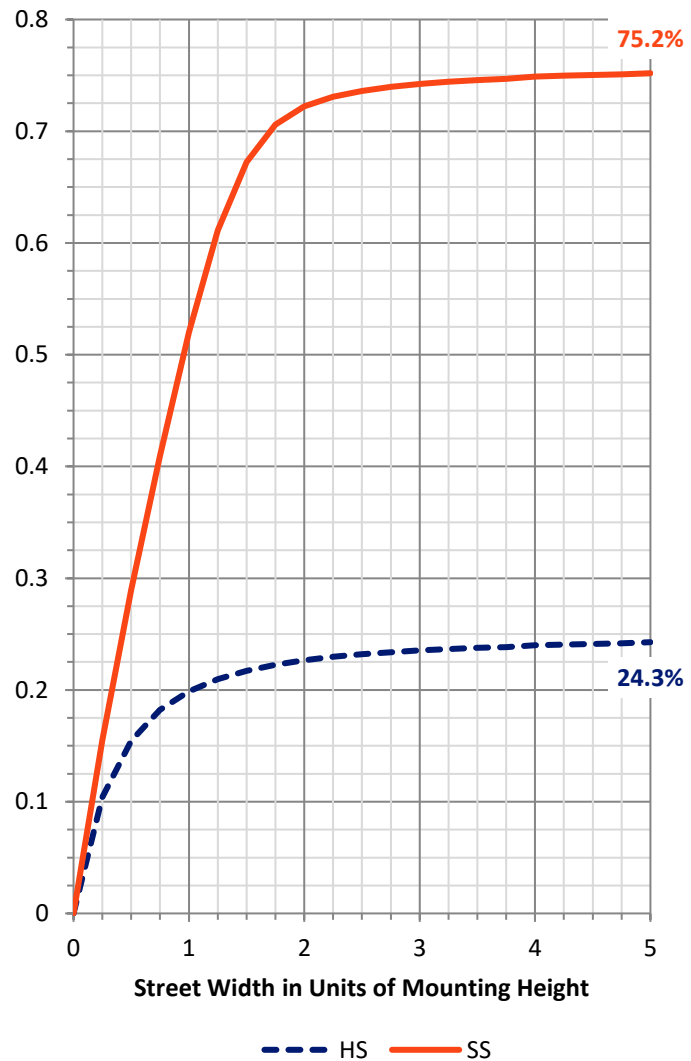
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5133.9	0.0	5133.9
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	15691.1	0.0	15691.1
	% Fixture	75.3	0.0	75.3
Total	Lumens	20825.0	0.0	20825.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	1.4
10°-20°	828.2	4.0
20°-30°	1385.6	6.7
30°-40°	2164.6	10.4
40°-50°	3447.4	16.6
50°-60°	4797.4	23.0
60°-70°	5018.3	24.1
70°-80°	2622.9	12.6
80°-90°	272.4	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°	20825.0	100.0
0°-180°	20825.0	100.0

Coefficient of Utilization



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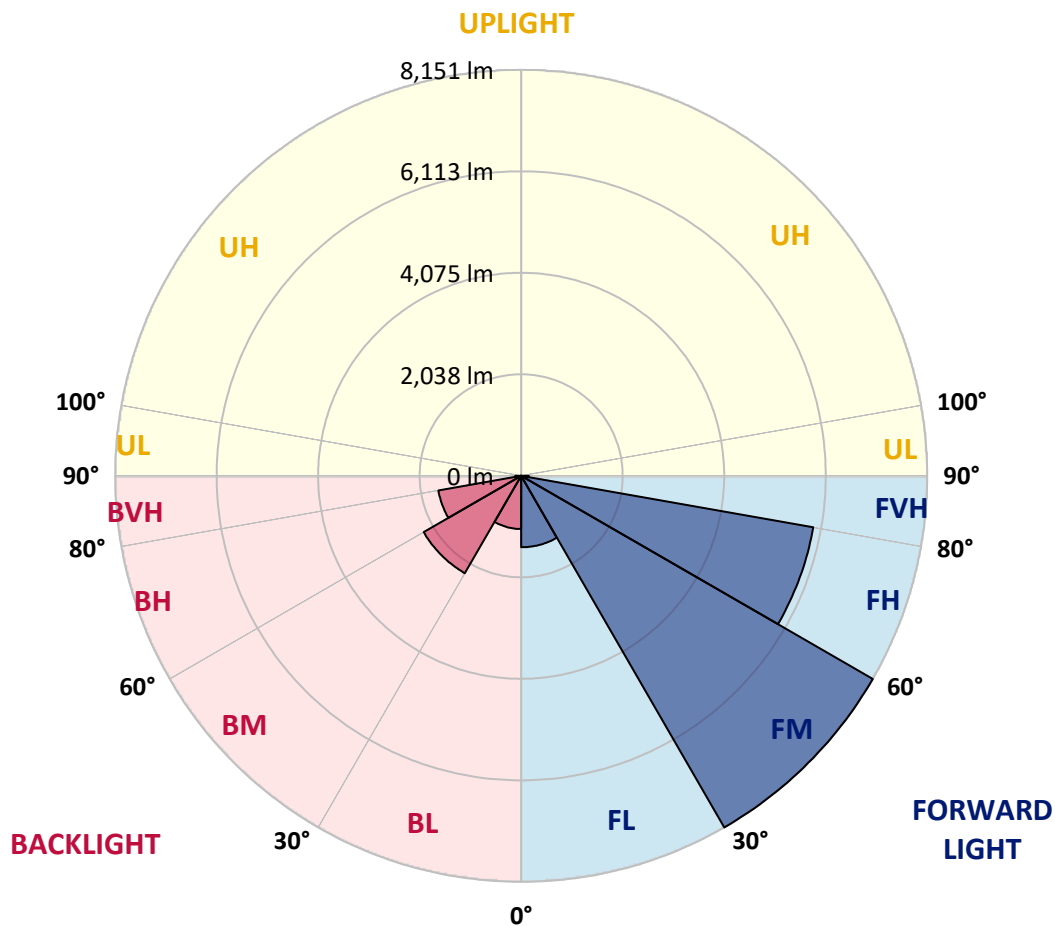
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1434.0	6.9			
FM	(30°-60°)	8150.7	39.1			
FH	(60°-80°)	5953.9	28.6			G3/7500
FVH	(80°-90°)	152.5	0.7			G2/225
BL	(0°-30°)	1068.0	5.1	B3/2500		
BM	(30°-60°)	2258.7	10.8	B2/2500		
BH	(60°-80°)	1687.3	8.1	B3/2500		G3/2500
BVH	(80°-90°)	119.9	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°	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2
2.5°	3126.1	3143.8	3138.3	3132.8	3132.8	3125.0	3123.9	3112.9	3104.0	3089.7	3086.4
5°	3165.9	3184.7	3182.5	3186.9	3201.3	3204.6	3207.9	3201.3	3183.6	3165.9	3158.2
7.5°	3130.6	3151.6	3158.2	3184.7	3228.9	3268.7	3298.5	3310.7	3294.1	3268.7	3256.5
10°	3011.2	3034.4	3057.6	3120.6	3199.1	3293.0	3372.6	3420.1	3416.8	3392.5	3371.5
12.5°	2769.2	2793.5	2843.2	2965.9	3109.6	3275.3	3423.4	3522.8	3557.1	3539.4	3503.0
15°	2575.8	2596.8	2634.4	2760.4	2947.1	3199.1	3442.2	3635.6	3722.9	3712.9	3668.7
17.5°	2570.3	2579.1	2602.4	2662.0	2805.7	3079.7	3422.3	3746.1	3912.9	3911.8	3856.6
20°	2667.5	2670.9	2684.1	2696.3	2778.1	2989.1	3371.5	3837.8	4126.2	4126.2	4066.5
22.5°	2802.4	2800.2	2813.4	2802.4	2842.1	2981.4	3339.4	3918.4	4363.8	4381.5	4306.3
25°	3004.6	2993.5	2990.2	2964.8	2972.5	3053.2	3374.8	4010.2	4645.6	4682.0	4588.1
27.5°	3274.2	3256.5	3244.4	3185.8	3165.9	3201.3	3483.1	4120.7	4959.4	5022.4	4903.0
30°	3625.6	3593.6	3575.9	3474.2	3402.4	3407.9	3646.6	4267.6	5287.6	5389.2	5237.9
32.5°	4105.2	4055.5	4008.0	3841.1	3709.6	3666.5	3857.7	4471.0	5643.4	5805.8	5611.4
35°	4642.2	4602.5	4551.6	4294.2	4091.9	3992.5	4142.8	4755.0	6060.0	6317.5	6064.4
37.5°	5159.4	5125.1	5149.5	4802.5	4541.7	4396.9	4516.3	5136.2	6573.8	6954.0	6632.4
40°	5694.2	5667.7	5671.0	5339.5	5035.6	4873.2	4969.3	5614.7	7162.8	7710.9	7315.3
42.5°	6275.5	6255.6	6189.3	5895.3	5553.9	5402.5	5490.9	6167.2	7794.9	8572.8	8064.5
45°	6926.3	6914.2	6852.3	6515.3	6124.1	5953.9	6073.3	6777.2	8430.3	9383.9	8817.1
47.5°	7488.8	7498.8	7491.0	7207.0	6801.5	6551.7	6694.3	7413.7	9021.5	10146.4	9538.6
50°	7759.5	7811.5	7887.7	7799.3	7547.4	7293.2	7320.8	8028.1	9585.1	10861.4	10230.4
52.5°	7618.1	7716.4	7924.2	8065.6	8162.9	8109.8	8035.8	8638.0	10115.5	11506.7	10884.6
55°	7091.0	7229.1	7573.9	7915.3	8411.5	8797.2	8894.4	9314.3	10632.6	12074.7	11503.4
57.5°	6130.7	6355.0	6664.5	7355.1	8190.5	9129.8	9895.6	10252.5	11180.7	12681.4	12150.9
60°	4484.2	4784.8	5169.3	6197.0	7417.0	8951.9	10747.5	11693.5	11959.8	13467.0	12994.1
62.5°	2869.8	3055.4	3409.0	4377.0	5779.3	8040.2	11008.3	13494.7	13280.3	14755.5	14258.2
65°	1964.7	2084.1	2407.9	2951.5	3736.1	5984.9	10310.0	14845.0	15377.6	16797.6	16419.7
67.5°	1427.7	1518.3	1794.6	2270.8	2434.4	3541.6	8000.4	14783.1	17416.4	18901.6	18313.7
70°	1040.9	1105.0	1337.1	1794.6	1873.0	1970.3	4846.7	12566.4	17372.2	19460.7	18756.8
72.5°	771.3	815.5	971.3	1392.3	1516.1	1330.5	2399.0	9133.1	14927.9	17602.1	17037.4
75°	558.0	591.2	706.1	1065.3	1213.3	1013.3	1196.8	5337.3	10412.7	12381.9	12481.3
77.5°	426.5	452.0	527.1	780.2	971.3	760.3	742.6	2455.4	4937.3	4961.6	5240.1
80°	342.6	359.1	400.0	549.2	744.8	569.1	484.0	991.2	1560.3	1320.5	1385.7
82.5°	251.9	279.6	338.1	385.7	532.6	392.3	295.0	500.6	593.4	510.5	514.9
85°	143.7	162.4	204.4	276.3	340.4	239.8	169.1	222.1	276.3	226.5	202.2
87.5°	50.8	66.3	71.8	108.3	148.1	99.5	65.2	64.1	90.6	67.4	56.4
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°	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2	3053.2
2.5°	3075.3	3069.8	3047.7	3017.8	2986.9	2957.1	2947.1	2926.1	2911.8	2904.0	2912.9
5°	3137.2	3119.5	3067.6	3001.3	2931.7	2856.5	2803.5	2754.8	2719.5	2686.3	2699.6
7.5°	3225.6	3194.6	3105.1	2989.1	2865.3	2740.5	2647.7	2576.9	2529.4	2498.5	2505.1
10°	3328.4	3280.8	3143.8	2970.3	2779.2	2600.1	2490.7	2430.0	2400.1	2383.6	2388.0
12.5°	3446.6	3379.2	3183.6	2927.2	2647.7	2443.2	2368.1	2350.4	2351.5	2352.6	2354.8
15°	3592.5	3498.5	3215.6	2833.3	2476.4	2322.8	2309.5	2338.2	2368.1	2382.5	2381.3
17.5°	3757.1	3624.5	3221.2	2678.6	2308.4	2245.4	2287.4	2349.3	2394.6	2414.5	2418.9
20°	3933.9	3752.7	3181.4	2459.8	2170.3	2182.4	2257.6	2337.1	2386.9	2412.3	2418.9
22.5°	4136.1	3889.7	3086.4	2230.0	2057.6	2113.9	2202.3	2279.7	2331.6	2357.0	2363.7
25°	4367.1	4043.3	2937.2	2036.6	1960.3	2036.6	2125.0	2189.1	2231.1	2254.3	2260.9
27.5°	4623.5	4203.5	2738.3	1883.0	1875.2	1957.0	2029.9	2079.7	2101.8	2119.5	2126.1
30°	4880.9	4349.4	2497.4	1766.9	1801.2	1878.6	1930.5	1952.6	1959.2	1962.5	1970.3
32.5°	5159.4	4475.4	2244.3	1670.8	1730.5	1802.3	1833.2	1843.2	1812.3	1791.3	1797.9
35°	5496.4	4610.2	1996.8	1594.6	1660.9	1722.7	1732.7	1723.9	1687.4	1644.3	1646.5
37.5°	5913.0	4778.2	1799.0	1540.4	1595.7	1636.6	1624.4	1622.2	1625.5	1574.7	1578.0
40°	6423.6	4997.0	1654.2	1498.4	1542.6	1551.5	1517.2	1536.0	1552.6	1475.2	1477.4
42.5°	6990.4	5261.1	1562.5	1469.7	1498.4	1477.4	1424.4	1445.4	1443.2	1341.5	1340.4
45°	7568.4	5548.4	1530.5	1448.7	1457.5	1415.5	1357.0	1362.5	1316.1	1224.4	1227.7
47.5°	8143.0	5856.7	1550.4	1431.0	1406.7	1359.2	1313.9	1289.6	1221.1	1152.5	1152.5
50°	8706.6	6180.4	1623.3	1395.7	1337.1	1309.5	1276.3	1233.2	1160.3	1101.7	1097.3
52.5°	9229.2	6506.4	1705.1	1337.1	1249.8	1266.4	1245.4	1195.6	1123.8	1064.1	1065.3
55°	9724.3	6832.4	1737.1	1256.4	1168.0	1228.8	1216.6	1124.9	1038.7	990.1	985.7
57.5°	10263.5	7224.7	1701.8	1153.7	1101.7	1185.7	1139.3	1037.6	987.9	951.4	948.1
60°	11010.5	7840.2	1625.5	1026.6	1038.7	1121.6	1042.0	1000.1	945.9	905.0	902.8
62.5°	12251.5	8988.3	1502.8	900.6	964.7	1026.6	995.6	953.6	898.4	858.6	858.6
65°	14085.9	10584.0	1271.9	802.3	881.8	933.8	945.9	903.9	846.5	804.5	806.7
67.5°	15632.9	11585.2	962.5	720.5	796.7	858.6	892.9	852.0	791.2	750.3	751.4
70°	15547.8	10858.1	734.8	639.8	721.6	784.6	828.8	796.7	731.5	692.9	696.2
72.5°	13809.6	9083.4	594.5	558.0	645.3	707.2	760.3	736.0	669.6	632.1	632.1
75°	10145.3	6447.9	475.2	475.2	550.3	626.6	685.1	669.6	608.9	582.4	574.6
77.5°	4276.5	2705.1	372.4	394.5	457.5	538.2	611.1	616.6	563.6	596.7	541.5
80°	1137.1	745.9	284.0	310.5	359.1	444.2	531.5	529.3	471.8	440.9	410.0
82.5°	433.2	293.9	202.2	218.8	259.7	340.4	421.0	434.3	376.8	326.0	326.0
85°	166.9	126.0	124.9	131.5	151.4	225.4	318.2	329.3	284.0	240.9	248.6
87.5°	43.1	37.6	46.4	44.2	69.6	120.4	182.3	189.0	173.5	100.6	143.7
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)