

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: P950199

Luminaire Tested: **GALN-SB4D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34316 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

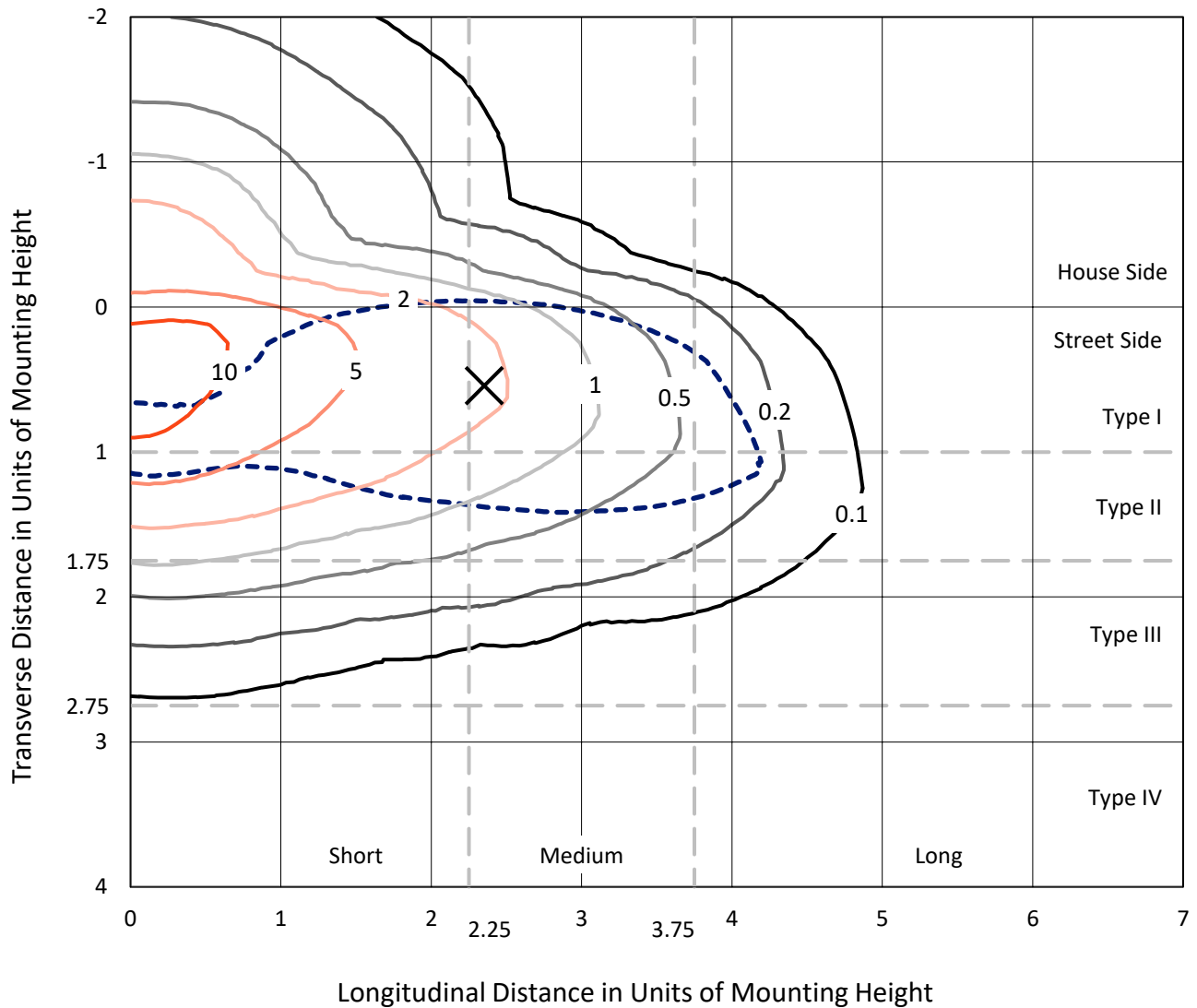
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

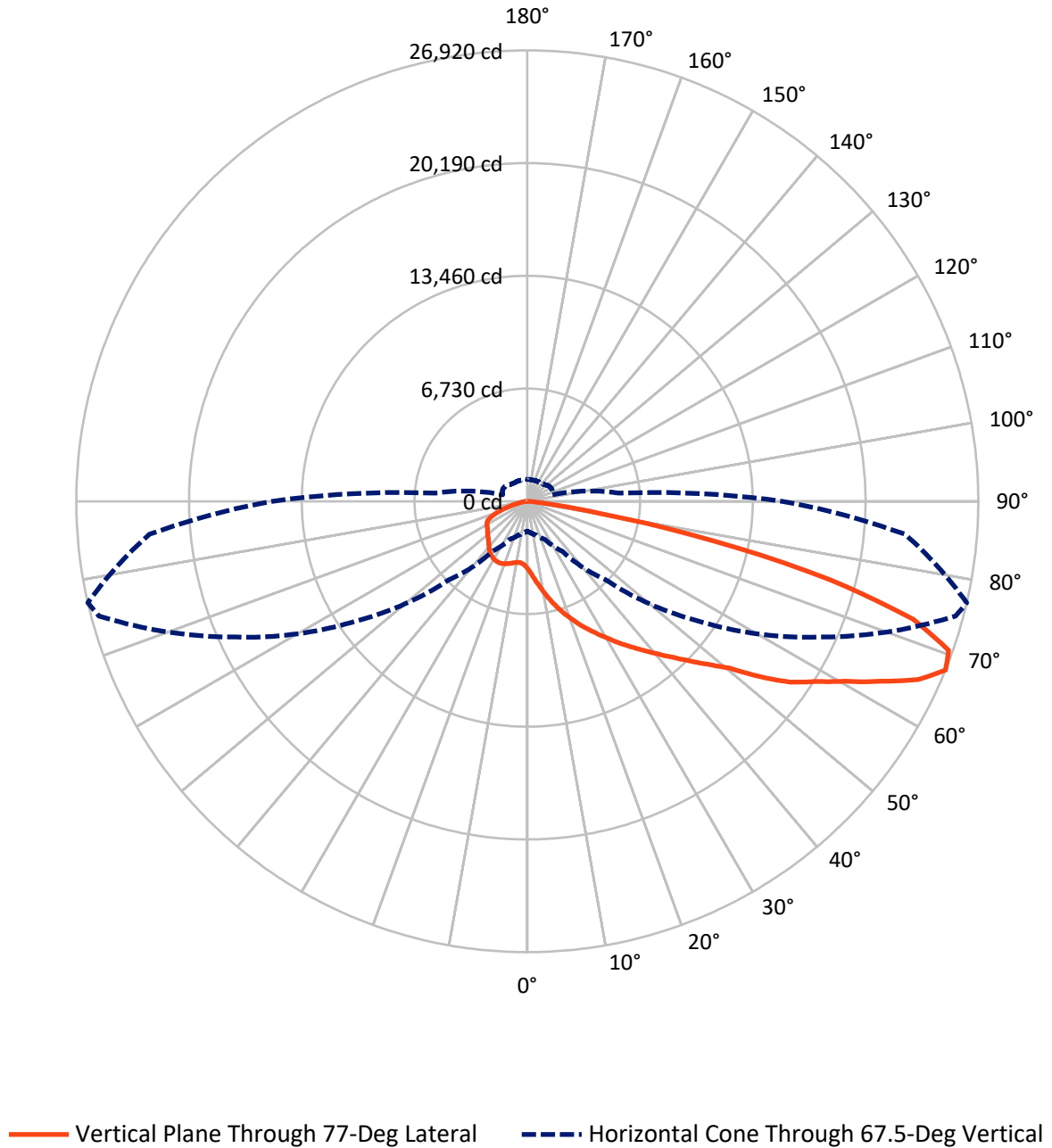
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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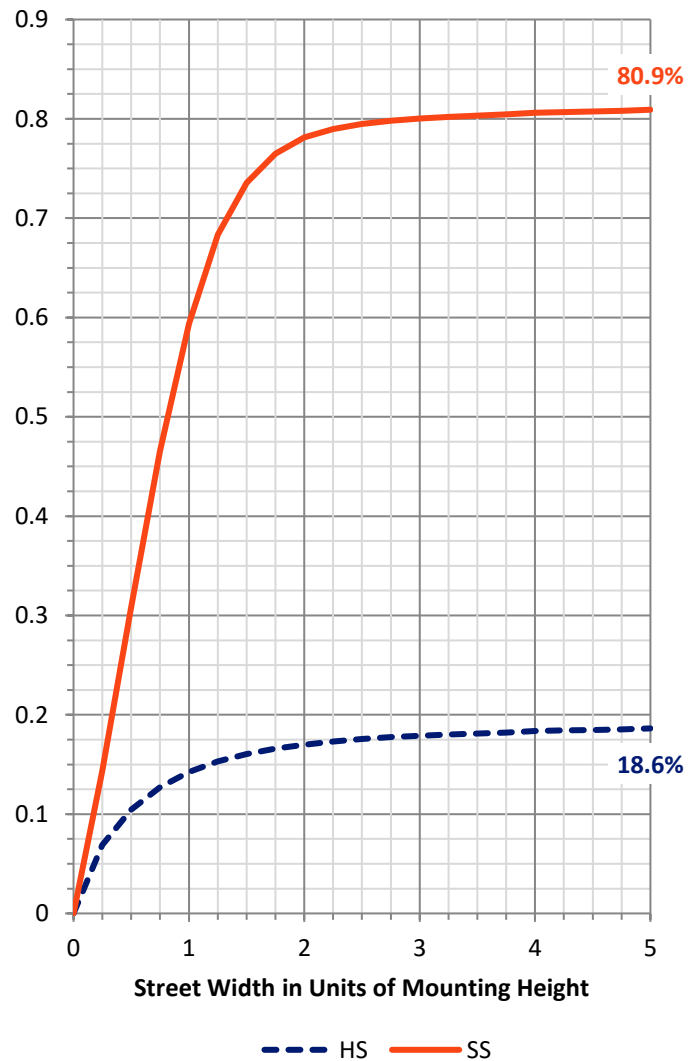
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6491.2	0.0	6491.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27824.8	0.0	27824.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	34316.0	0.0	34316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.6	1.3
10°-20°	1550.5	4.5
20°-30°	2927.4	8.5
30°-40°	4716.0	13.7
40°-50°	6450.6	18.8
50°-60°	7276.4	21.2
60°-70°	6791.6	19.8
70°-80°	3722.9	10.8
80°-90°	449.1	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°	34316.0	100.0
0°-180°	34316.0	100.0

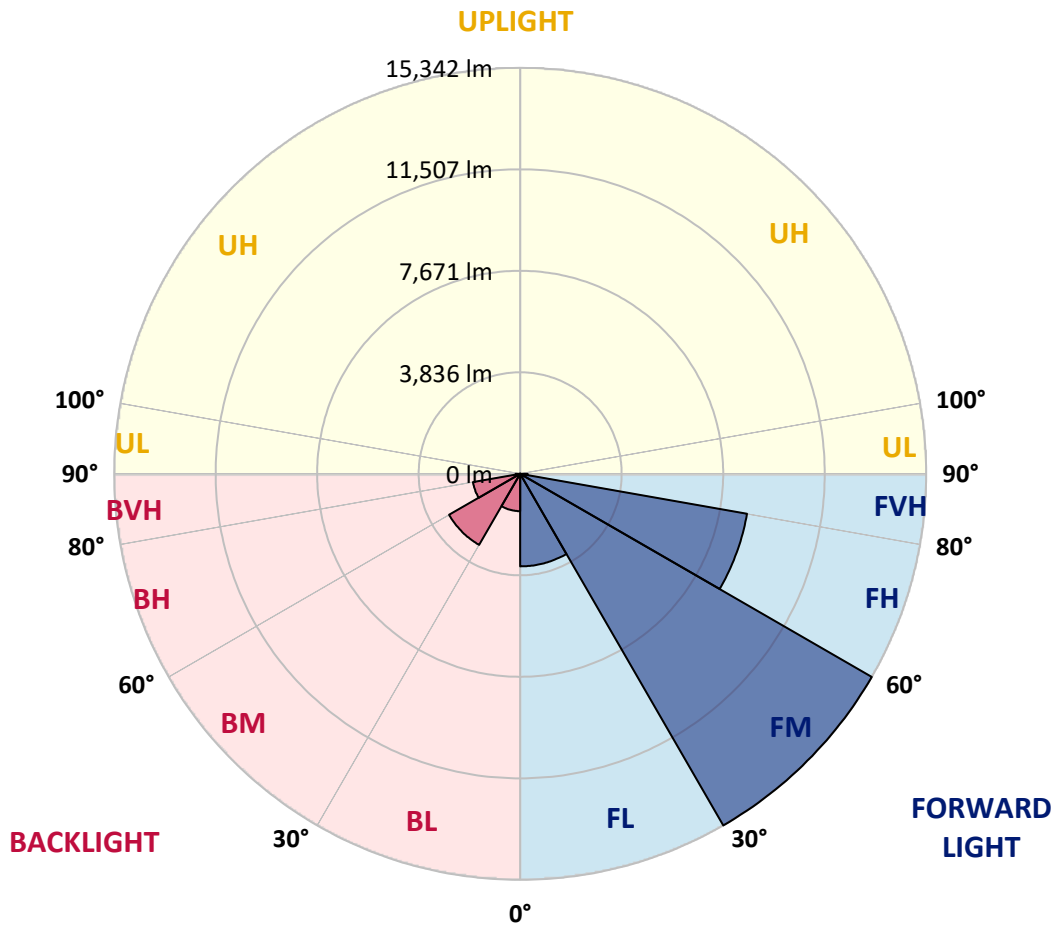


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3498.1	10.2			
FM (30°-60°)	15342.3	44.7			
FH (60°-80°)	8703.6	25.4			G4/12000
FVH (80°-90°)	280.8	0.8			G3/500
BL (0°-30°)	1411.3	4.1	B3/2500		
BM (30°-60°)	3100.7	9.0	B3/5000		
BH (60°-80°)	1811.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	168.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3
2.5°	5041.3	5076.8	5032.5	5032.5	4883.7	4805.7	4656.9	4543.6	4339.9	4304.4	4169.8
5°	5958.9	6003.2	5941.2	5914.6	5739.3	5578.1	5328.3	5082.1	4718.9	4681.7	4364.7
7.5°	6669.2	6725.9	6671.0	6642.7	6486.8	6306.1	6013.8	5670.2	5158.2	5085.6	4626.8
10°	7248.5	7257.3	7239.6	7250.2	7128.0	6979.2	6679.9	6279.5	5640.1	5540.9	4943.9
12.5°	7576.2	7616.9	7652.3	7716.1	7694.8	7602.7	7333.5	6855.2	6150.2	6022.7	5289.3
15°	7730.3	7801.1	7880.8	8027.9	8146.5	8169.6	7964.1	7473.4	6669.2	6515.1	5638.3
17.5°	7785.2	7852.5	7978.3	8190.8	8445.9	8617.7	8525.6	8073.9	7182.9	7005.8	6005.0
20°	8063.3	8082.8	8158.9	8360.9	8637.2	8922.4	8991.5	8651.4	7691.3	7491.1	6384.0
22.5°	8658.5	8619.5	8640.8	8732.9	8931.3	9207.6	9365.3	9161.5	8213.9	7983.6	6766.6
25°	9641.6	9528.2	9414.9	9308.6	9409.5	9565.4	9744.3	9671.7	8761.2	8468.9	7152.8
27.5°	10883.3	10745.2	10495.4	10146.4	10024.2	10079.1	10158.8	10144.7	9267.8	8972.0	7551.4
30°	12105.6	11944.4	11646.8	11141.9	10819.6	10674.3	10614.1	10573.3	9818.7	9503.4	7953.5
32.5°	13081.6	12954.1	12661.8	12096.7	11629.1	11381.1	11180.9	11035.7	10394.4	10079.1	8378.6
35°	13935.4	13816.7	13481.9	12865.5	12357.1	12093.2	11831.0	11521.0	10993.1	10674.3	8835.6
37.5°	14714.8	14596.1	14137.3	13496.1	12984.2	12801.7	12567.9	12041.8	11593.6	11292.5	9319.2
40°	15207.2	15180.7	14752.0	14025.7	13494.3	13404.0	13326.0	12645.8	12259.7	11979.8	9850.6
42.5°	15333.0	15391.5	15051.4	14454.4	13947.8	13875.2	14057.6	13329.6	13007.2	12739.7	10452.9
45°	15030.1	15198.4	14975.2	14569.6	14270.2	14231.2	14705.9	14077.1	13834.4	13590.0	11179.1
47.5°	14263.1	14548.3	14456.2	14399.5	14357.0	14525.3	15276.3	14870.7	14771.5	14558.9	12008.1
50°	12714.9	13255.2	13416.4	13774.2	14185.2	14753.8	15795.3	15736.9	15866.2	15651.9	13017.8
52.5°	10038.4	10782.4	11717.6	12614.0	13657.3	14677.6	16365.7	16980.4	17526.0	17409.1	14622.7
55°	8286.5	8621.3	9340.5	10984.3	12633.4	14357.0	16622.6	17984.8	19173.4	19068.8	15839.6
57.5°	6940.2	7239.6	7682.4	9055.3	11085.3	13629.0	16782.0	18597.7	20301.7	20291.1	17040.6
60°	5496.6	5813.6	6267.1	7239.6	9276.7	12371.3	16746.6	19295.6	21741.8	21830.4	18505.5
62.5°	3866.9	4215.9	4718.9	5625.9	7429.1	10741.6	16023.8	19800.4	23437.0	23678.0	20268.1
65°	2541.9	2772.2	3151.3	3934.2	5535.5	8646.1	14643.9	19866.0	25250.9	25658.4	21922.5
67.5°	1782.0	1870.6	2093.8	2518.9	3649.0	6630.3	12445.7	19187.5	26460.8	26919.6	22639.9
70°	1390.5	1434.8	1548.2	1718.2	2292.2	4458.5	9537.1	17423.2	26202.2	26680.4	21890.6
72.5°	1201.0	1243.5	1286.0	1307.3	1537.6	2752.7	6460.2	14567.8	23766.5	24090.7	19033.4
75°	1089.4	1100.0	1135.5	1128.4	1172.6	1785.5	3728.7	10614.1	18751.8	18640.2	14050.5
77.5°	915.8	930.0	988.4	979.6	1041.6	1220.5	1936.1	6849.9	12156.9	11398.8	7820.6
80°	775.9	782.9	846.7	836.1	905.2	883.9	988.4	3491.4	5156.5	4368.2	2255.0
82.5°	269.2	333.0	646.6	666.0	690.8	535.0	570.4	1424.2	1574.8	1206.3	473.0
85°	131.1	139.9	329.5	467.6	465.9	269.2	278.1	508.4	496.0	389.7	157.7
87.5°	21.3	26.6	39.0	182.5	145.3	70.9	95.7	99.2	102.7	88.6	35.4
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°	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3	4026.3
2.5°	4070.6	3982.0	3796.1	3624.2	3489.6	3360.3	3287.7	3225.7	3190.2	3183.2	3183.2
5°	4180.4	3998.0	3659.7	3374.5	3188.5	3050.3	2977.7	2931.6	2908.6	2894.4	2892.7
7.5°	4338.1	4070.6	3588.8	3264.6	3069.8	2970.6	2933.4	2926.3	2924.5	2926.3	2931.6
10°	4556.0	4189.3	3581.7	3238.1	3075.1	3020.2	3018.4	3020.2	3027.3	3029.0	3030.8
12.5°	4791.6	4311.5	3610.1	3261.1	3142.4	3112.3	3107.0	3105.2	3110.5	3114.1	3115.8
15°	5048.4	4472.7	3657.9	3310.7	3216.8	3184.9	3179.6	3169.0	3167.2	3165.4	3163.7
17.5°	5312.4	4632.1	3711.0	3363.8	3264.6	3220.4	3200.9	3176.1	3156.6	3151.3	3156.6
20°	5579.8	4789.8	3748.2	3390.4	3268.2	3206.2	3167.2	3124.7	3091.0	3071.6	3078.6
22.5°	5865.0	4954.5	3771.3	3383.3	3236.3	3151.3	3080.4	3030.8	2979.5	2945.8	2947.6
25°	6143.1	5098.0	3769.5	3346.1	3174.3	3066.2	2975.9	2912.1	2841.3	2805.9	2805.9
27.5°	6410.6	5227.3	3725.2	3280.6	3085.7	2965.3	2857.2	2781.1	2712.0	2678.3	2676.5
30°	6686.9	5335.4	3656.1	3184.9	2981.2	2848.4	2729.7	2664.1	2602.1	2570.3	2568.5
32.5°	6961.5	5434.6	3558.7	3066.2	2860.8	2733.2	2616.3	2556.1	2518.9	2518.9	2520.7
35°	7252.0	5503.7	3429.4	2928.1	2733.2	2611.0	2518.9	2483.5	2479.9	2458.7	2453.4
37.5°	7558.5	5547.9	3271.7	2786.4	2607.5	2492.3	2464.0	2421.5	2386.0	2340.0	2332.9
40°	7880.8	5592.2	3082.2	2639.3	2474.6	2410.8	2398.4	2341.8	2240.8	2127.4	2111.5
42.5°	8272.3	5622.3	2885.6	2492.3	2334.7	2313.4	2331.1	2233.7	2072.5	1987.5	1989.3
45°	8725.8	5671.9	2704.9	2347.1	2191.2	2191.2	2265.6	2138.0	2005.2	1952.1	1960.9
47.5°	9313.9	5787.1	2536.6	2187.6	2058.3	2093.8	2120.3	2022.9	1948.5	1883.0	1881.2
50°	10164.1	6063.4	2363.0	2026.5	1957.4	2028.2	1991.0	1934.3	1847.5	1794.4	1789.1
52.5°	11219.9	6226.4	2208.9	1881.2	1870.6	1941.4	1888.3	1835.1	1769.6	1698.7	1684.6
55°	11939.1	6256.5	2079.6	1774.9	1812.1	1805.0	1785.5	1737.7	1702.3	1608.4	1610.2
57.5°	12743.3	6316.7	1973.3	1711.1	1774.9	1697.0	1689.9	1649.1	1603.1	1539.3	1518.1
60°	13705.1	6410.6	1881.2	1686.3	1743.0	1626.1	1590.7	1574.8	1528.7	1496.8	1505.7
62.5°	14753.8	6495.6	1787.3	1689.9	1705.8	1557.0	1503.9	1498.6	1470.2	1459.6	1459.6
65°	15469.4	6263.6	1670.4	1686.3	1647.4	1486.2	1418.9	1417.1	1394.1	1390.5	1388.8
67.5°	15219.6	5528.5	1512.8	1636.7	1587.2	1415.3	1340.9	1333.8	1303.7	1305.5	1305.5
70°	13969.1	4479.8	1294.9	1514.5	1512.8	1351.6	1259.4	1236.4	1195.7	1202.8	1209.8
72.5°	11623.8	3319.6	1002.6	1310.8	1394.1	1293.1	1165.6	1128.4	1077.0	1084.1	1082.3
75°	8394.5	2256.7	729.8	997.3	1213.4	1224.0	1073.5	1009.7	947.7	958.3	961.9
77.5°	4295.6	1278.9	536.7	687.3	953.0	1112.4	990.2	905.2	891.0	990.2	976.0
80°	1401.2	641.2	372.0	481.8	625.3	910.5	868.0	770.5	767.0	790.0	678.4
82.5°	418.0	271.0	239.1	317.1	345.4	697.9	749.3	582.8	501.3	527.9	545.6
85°	143.5	131.1	136.4	157.7	164.7	409.2	524.3	386.2	364.9	402.1	396.8
87.5°	33.7	46.1	39.0	35.4	35.4	99.2	203.7	161.2	223.2	148.8	143.5
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)