

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: P941435

Luminaire Tested: **GALN-SB5A-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941435
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-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18547 lumens
Efficiency: N/A
Efficacy: 130.9 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



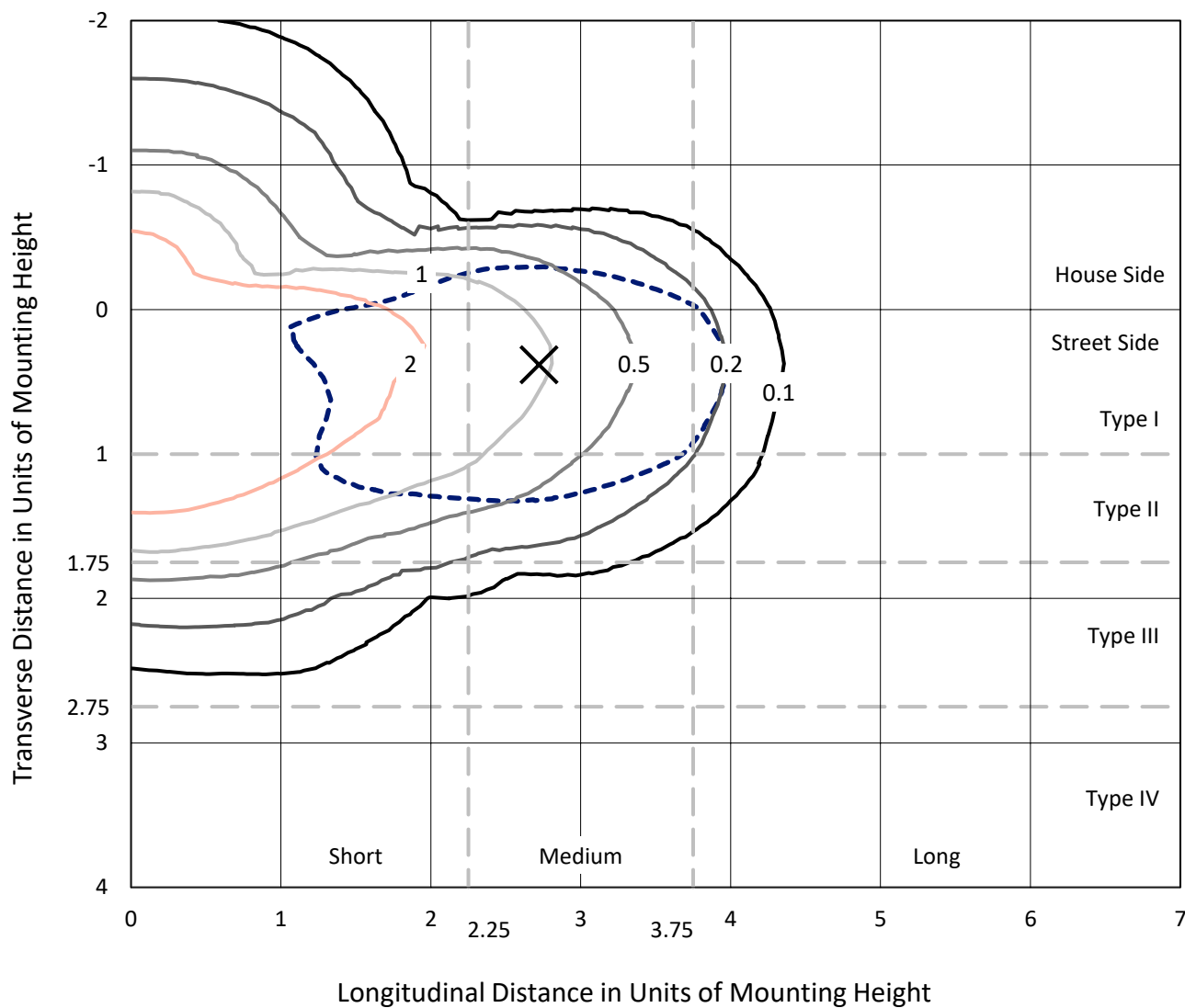
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Iso-Footcandle Lines of Horizontal Illumination

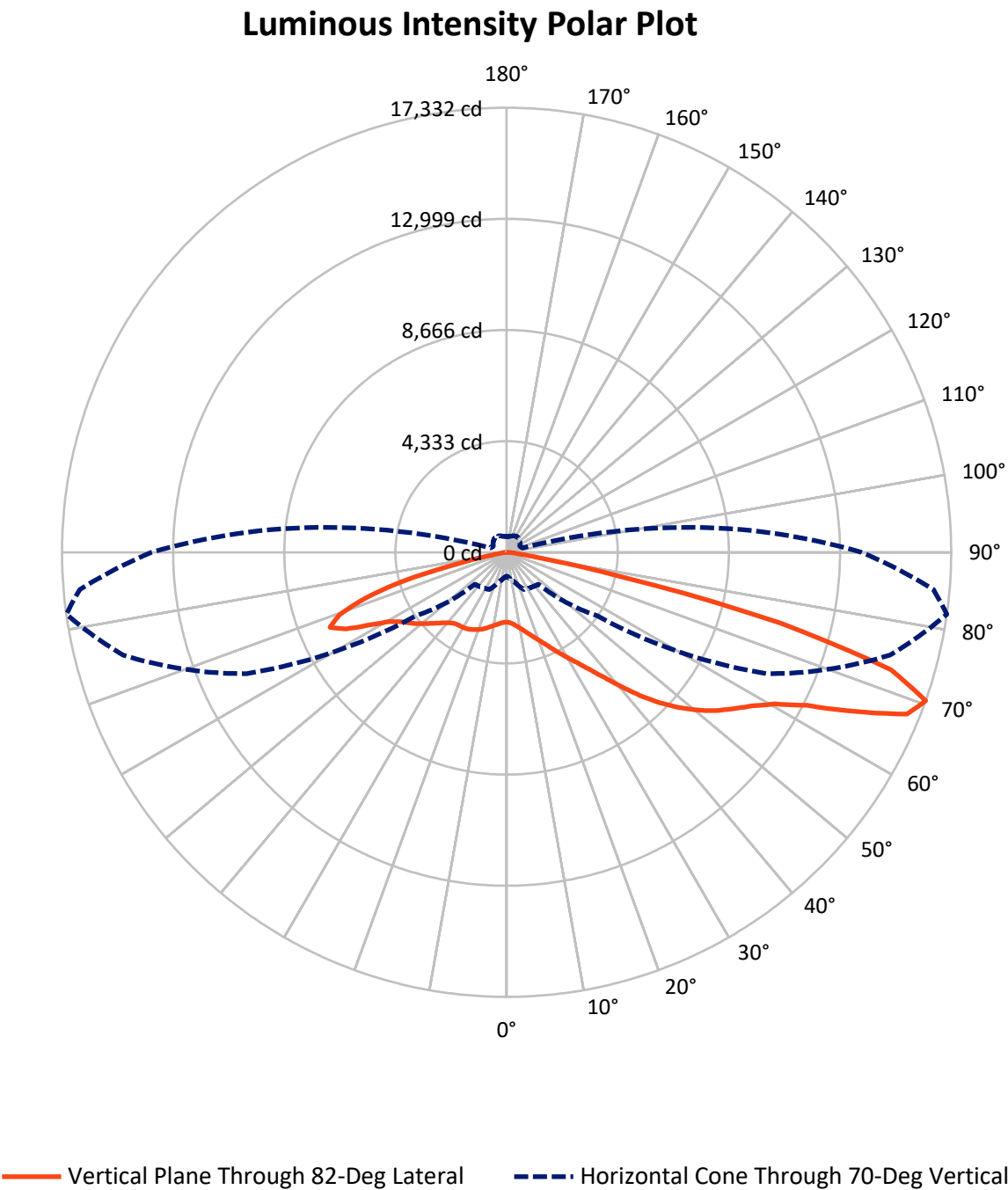
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Medium - N/A

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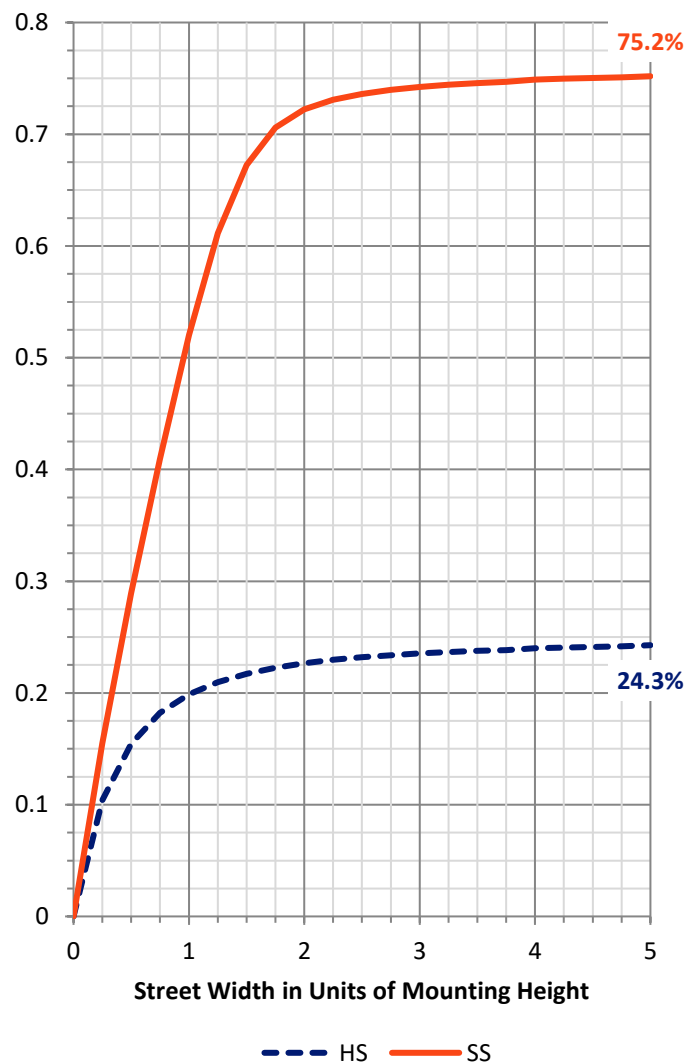
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4572.3	0.0	4572.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	13974.7	0.0	13974.7
	% Fixture	75.3	0.0	75.3
Total	Lumens	18547.0	0.0	18547.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	1.4
10°-20°	737.6	4.0
20°-30°	1234.0	6.7
30°-40°	1927.8	10.4
40°-50°	3070.3	16.6
50°-60°	4272.7	23.0
60°-70°	4469.4	24.1
70°-80°	2335.9	12.6
80°-90°	242.6	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°	18547.0	100.0
0°-180°	18547.0	100.0

Coefficient of Utilization



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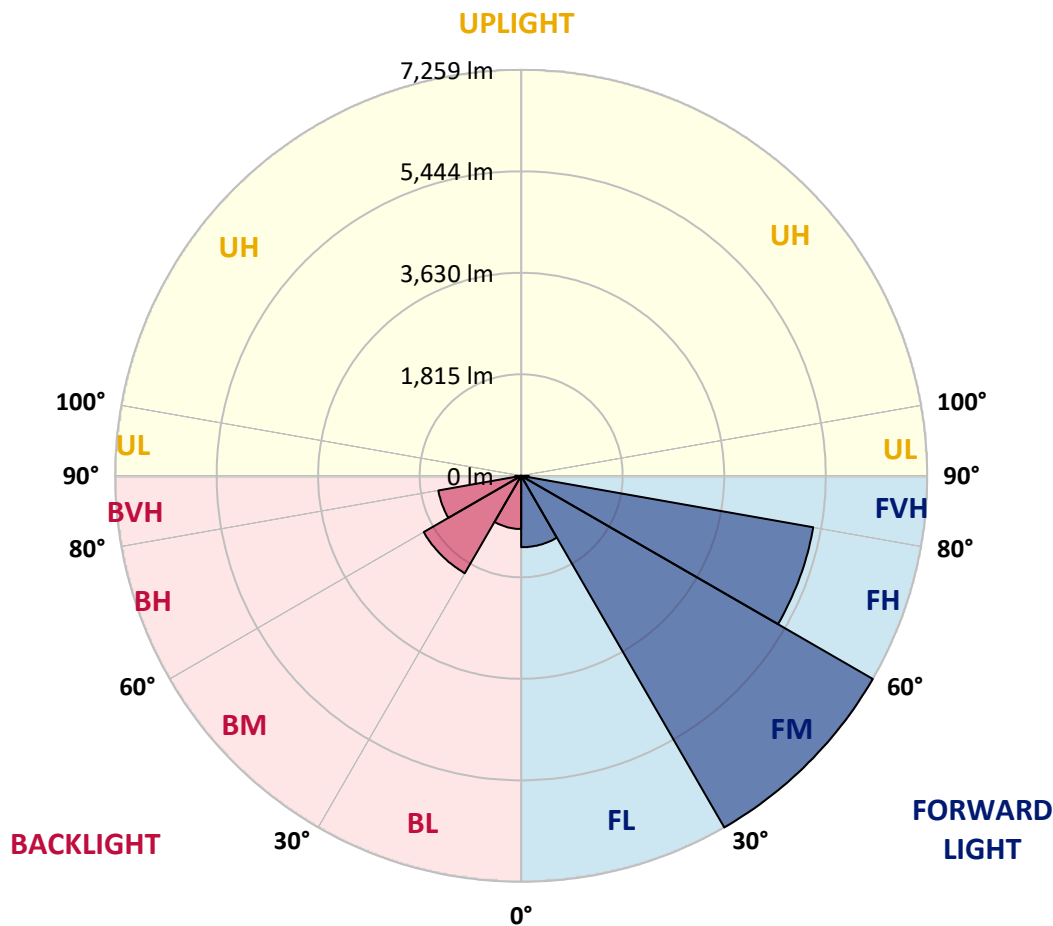
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1277.2	6.9			
FM	(30°-60°)	7259.1	39.1			
FH	(60°-80°)	5302.6	28.6			G3/7500
FVH	(80°-90°)	135.8	0.7			G2/225
BL	(0°-30°)	951.2	5.1	B2/1000		
BM	(30°-60°)	2011.6	10.8	B2/2500		
BH	(60°-80°)	1502.7	8.1	B3/2500		G3/2500
BVH	(80°-90°)	106.8	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°	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2
2.5°	2784.2	2799.9	2795.0	2790.1	2790.1	2783.2	2782.2	2772.4	2764.5	2751.7	2748.7
5°	2819.6	2836.3	2834.4	2838.3	2851.1	2854.1	2857.0	2851.1	2835.4	2819.6	2812.7
7.5°	2788.1	2806.8	2812.7	2836.3	2875.7	2911.1	2937.7	2948.5	2933.8	2911.1	2900.3
10°	2681.8	2702.5	2723.2	2779.3	2849.1	2932.8	3003.6	3046.0	3043.0	3021.4	3002.7
12.5°	2466.3	2487.9	2532.2	2641.5	2769.4	2917.0	3048.9	3137.5	3168.0	3152.3	3119.8
15°	2294.1	2312.8	2346.2	2458.4	2624.7	2849.1	3065.6	3237.9	3315.6	3306.8	3267.4
17.5°	2289.1	2297.0	2317.7	2370.8	2498.8	2742.8	3047.9	3336.3	3484.9	3483.9	3434.7
20°	2375.8	2378.7	2390.5	2401.3	2474.2	2662.1	3002.7	3418.0	3674.8	3674.8	3621.7
22.5°	2495.8	2493.9	2505.7	2495.8	2531.2	2655.3	2974.1	3489.8	3886.4	3902.2	3835.3
25°	2675.9	2666.1	2663.1	2640.5	2647.4	2719.2	3005.6	3571.5	4137.4	4169.9	4086.2
27.5°	2916.1	2900.3	2889.5	2837.3	2819.6	2851.1	3102.1	3669.9	4416.9	4473.0	4366.7
30°	3229.0	3200.5	3184.7	3094.2	3030.2	3035.1	3247.7	3800.8	4709.2	4799.7	4664.9
32.5°	3656.1	3611.9	3569.5	3420.9	3303.8	3265.4	3435.7	3981.9	5026.1	5170.8	4997.5
35°	4134.4	4099.0	4053.7	3824.4	3644.3	3555.8	3689.6	4234.8	5397.1	5626.4	5401.0
37.5°	4595.0	4564.5	4586.2	4277.1	4044.9	3916.0	4022.2	4574.4	5854.7	6193.3	5906.9
40°	5071.4	5047.7	5050.7	4755.4	4484.8	4340.1	4425.7	5000.5	6379.3	6867.4	6515.1
42.5°	5589.0	5571.3	5512.3	5250.5	4946.4	4811.5	4890.3	5492.6	6942.2	7635.1	7182.4
45°	6168.7	6157.9	6102.7	5802.6	5454.2	5302.6	5408.9	6035.8	7508.1	8357.4	7852.6
47.5°	6669.6	6678.5	6671.6	6418.7	6057.5	5835.1	5962.0	6602.7	8034.6	9036.5	8495.2
50°	6910.7	6957.0	7024.9	6946.2	6721.8	6495.4	6520.0	7149.9	8536.6	9673.3	9111.3
52.5°	6784.8	6872.4	7057.4	7183.4	7270.0	7222.7	7156.8	7693.1	9009.0	10248.0	9693.9
55°	6315.3	6438.3	6745.4	7049.5	7491.4	7834.9	7921.5	8295.4	9469.5	10753.9	10245.1
57.5°	5460.1	5659.9	5935.4	6550.5	7294.6	8131.1	8813.1	9131.0	9957.7	11294.2	10821.8
60°	3993.7	4261.4	4603.9	5519.1	6605.7	7972.6	9571.9	10414.3	10651.5	11993.9	11572.7
62.5°	2555.9	2721.2	3036.1	3898.2	5147.1	7160.7	9804.2	12018.5	11827.6	13141.4	12698.6
65°	1749.8	1856.1	2144.5	2628.7	3327.4	5330.2	9182.2	13221.1	13695.5	14960.2	14623.6
67.5°	1271.5	1352.2	1598.3	2022.4	2168.1	3154.2	7125.3	13166.0	15511.3	16834.0	16310.4
70°	927.1	984.2	1190.8	1598.3	1668.1	1754.7	4316.5	11191.8	15471.9	17332.0	16705.1
72.5°	686.9	726.3	865.1	1240.0	1350.3	1184.9	2136.6	8134.0	13295.0	15676.6	15173.7
75°	497.0	526.5	628.9	948.7	1080.6	902.5	1065.8	4753.5	9273.7	11027.5	11116.0
77.5°	379.9	402.5	469.4	694.8	865.1	677.1	661.4	2186.8	4397.2	4418.9	4666.9
80°	305.1	319.9	356.3	489.1	663.3	506.8	431.1	882.8	1389.6	1176.1	1234.1
82.5°	224.4	249.0	301.2	343.5	474.4	349.4	262.8	445.8	528.5	454.7	458.6
85°	127.9	144.7	182.1	246.0	303.1	213.6	150.6	197.8	246.0	201.8	180.1
87.5°	45.3	59.0	64.0	96.4	131.9	88.6	58.1	57.1	80.7	60.0	50.2
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°	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2	2719.2
2.5°	2738.9	2734.0	2714.3	2687.7	2660.2	2633.6	2624.7	2606.0	2593.3	2586.4	2594.2
5°	2794.0	2778.3	2732.0	2673.0	2611.0	2544.0	2496.8	2453.5	2422.0	2392.5	2404.3
7.5°	2872.8	2845.2	2765.5	2662.1	2551.9	2440.7	2358.0	2295.1	2252.7	2225.2	2231.1
10°	2964.3	2922.0	2799.9	2645.4	2475.2	2315.7	2218.3	2164.2	2137.6	2122.8	2126.8
12.5°	3069.6	3009.5	2835.4	2607.0	2358.0	2176.0	2109.0	2093.3	2094.3	2095.3	2097.2
15°	3199.5	3115.8	2863.9	2523.4	2205.5	2068.7	2056.9	2082.5	2109.0	2121.8	2120.9
17.5°	3346.1	3228.0	2868.8	2385.6	2055.9	1999.8	2037.2	2092.3	2132.7	2150.4	2154.3
20°	3503.6	3342.2	2833.4	2190.7	1932.9	1943.7	2010.6	2081.5	2125.8	2148.4	2154.3
22.5°	3683.7	3464.2	2748.7	1986.0	1832.5	1882.7	1961.4	2030.3	2076.6	2099.2	2105.1
25°	3889.4	3601.0	2615.9	1813.8	1745.9	1813.8	1892.5	1949.6	1987.0	2007.7	2013.6
27.5°	4117.7	3743.7	2438.7	1677.0	1670.1	1742.9	1807.9	1852.2	1871.9	1887.6	1893.5
30°	4347.0	3873.6	2224.2	1573.7	1604.2	1673.1	1719.3	1739.0	1744.9	1747.9	1754.7
32.5°	4595.0	3985.8	1998.8	1488.0	1541.2	1605.2	1632.7	1641.6	1614.0	1595.3	1601.2
35°	4895.2	4105.9	1778.4	1420.1	1479.2	1534.3	1543.2	1535.3	1502.8	1464.4	1466.4
37.5°	5266.2	4255.5	1602.2	1371.9	1421.1	1457.5	1446.7	1444.7	1447.7	1402.4	1405.4
40°	5720.9	4450.4	1473.3	1334.5	1373.9	1381.8	1351.2	1368.0	1382.7	1313.8	1315.8
42.5°	6225.8	4685.6	1391.6	1308.9	1334.5	1315.8	1268.6	1287.3	1285.3	1194.8	1193.8
45°	6740.5	4941.4	1363.1	1290.2	1298.1	1260.7	1208.5	1213.5	1172.1	1090.4	1093.4
47.5°	7252.2	5216.0	1380.8	1274.5	1252.8	1210.5	1170.2	1148.5	1087.5	1026.5	1026.5
50°	7754.2	5504.4	1445.7	1243.0	1190.8	1166.2	1136.7	1098.3	1033.4	981.2	977.3
52.5°	8219.7	5794.7	1518.6	1190.8	1113.1	1127.8	1109.1	1064.9	1000.9	947.7	948.7
55°	8660.6	6085.0	1547.1	1119.0	1040.3	1094.4	1083.6	1001.9	925.1	881.8	877.9
57.5°	9140.8	6434.4	1515.6	1027.5	981.2	1056.0	1014.7	924.1	879.8	847.4	844.4
60°	9806.1	6982.6	1447.7	914.3	925.1	998.9	928.1	890.7	842.4	806.0	804.1
62.5°	10911.3	8005.1	1338.5	802.1	859.2	914.3	886.7	849.3	800.1	764.7	764.7
65°	12545.0	9426.2	1132.8	714.5	785.4	831.6	842.4	805.0	753.9	716.5	718.4
67.5°	13922.9	10317.9	857.2	641.7	709.6	764.7	795.2	758.8	704.7	668.2	669.2
70°	13847.1	9670.3	654.5	569.8	642.7	698.8	738.1	709.6	651.5	617.1	620.0
72.5°	12299.0	8089.8	529.5	497.0	574.7	629.9	677.1	655.4	596.4	562.9	562.9
75°	9035.5	5742.5	423.2	423.2	490.1	558.0	610.2	596.4	542.3	518.7	511.8
77.5°	3808.7	2409.2	331.7	351.3	407.4	479.3	544.2	549.2	501.9	531.4	482.2
80°	1012.7	664.3	252.9	276.5	319.9	395.6	473.4	471.4	420.2	392.7	365.1
82.5°	385.8	261.8	180.1	194.9	231.3	303.1	375.0	386.8	335.6	290.3	290.3
85°	148.6	112.2	111.2	117.1	134.8	200.8	283.4	293.3	252.9	214.5	221.4
87.5°	38.4	33.5	41.3	39.4	62.0	107.3	162.4	168.3	154.5	89.6	127.9
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)