

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: P648458

Luminaire Tested: **GALN-SA5B-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648458
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22126 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

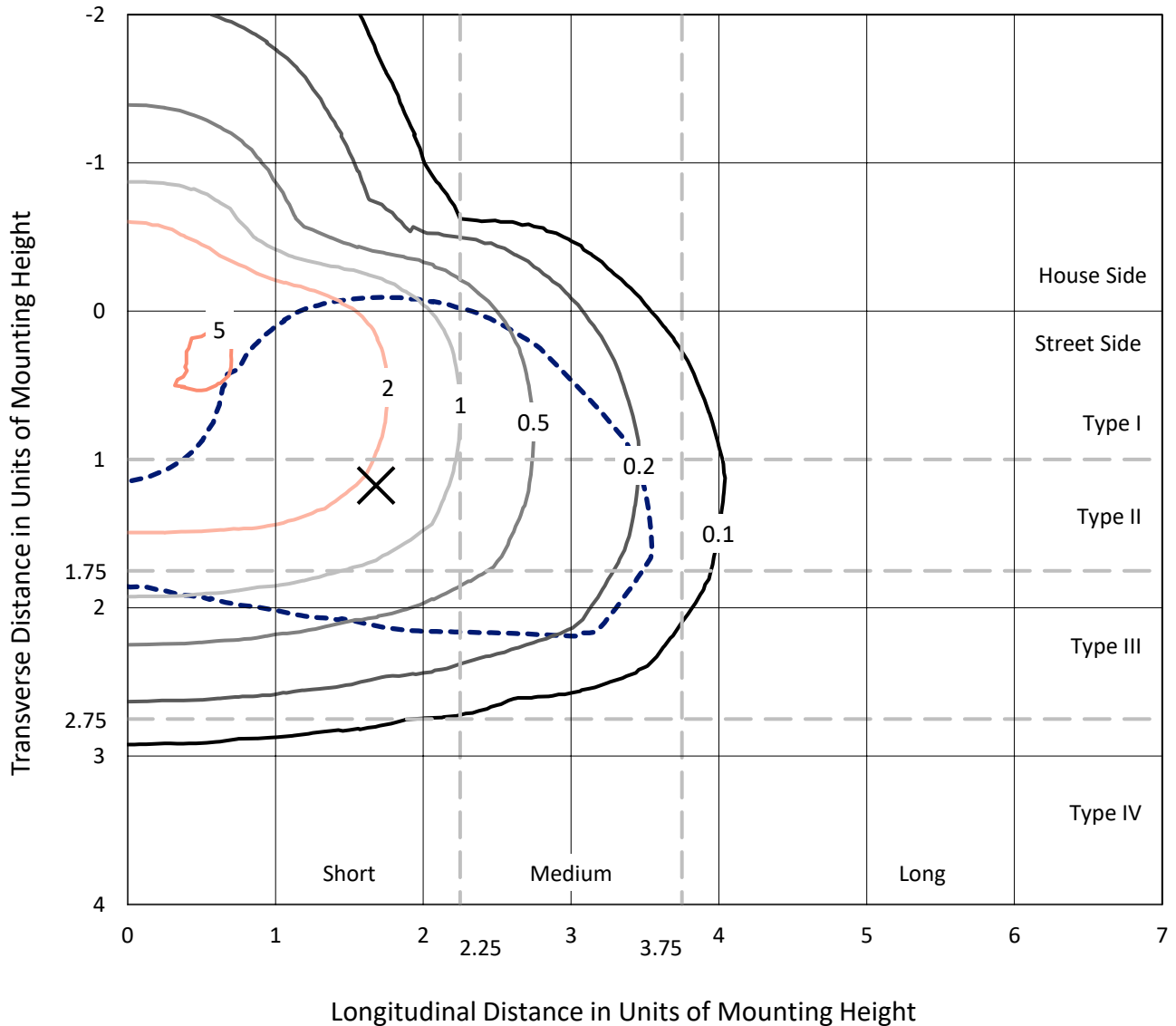
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

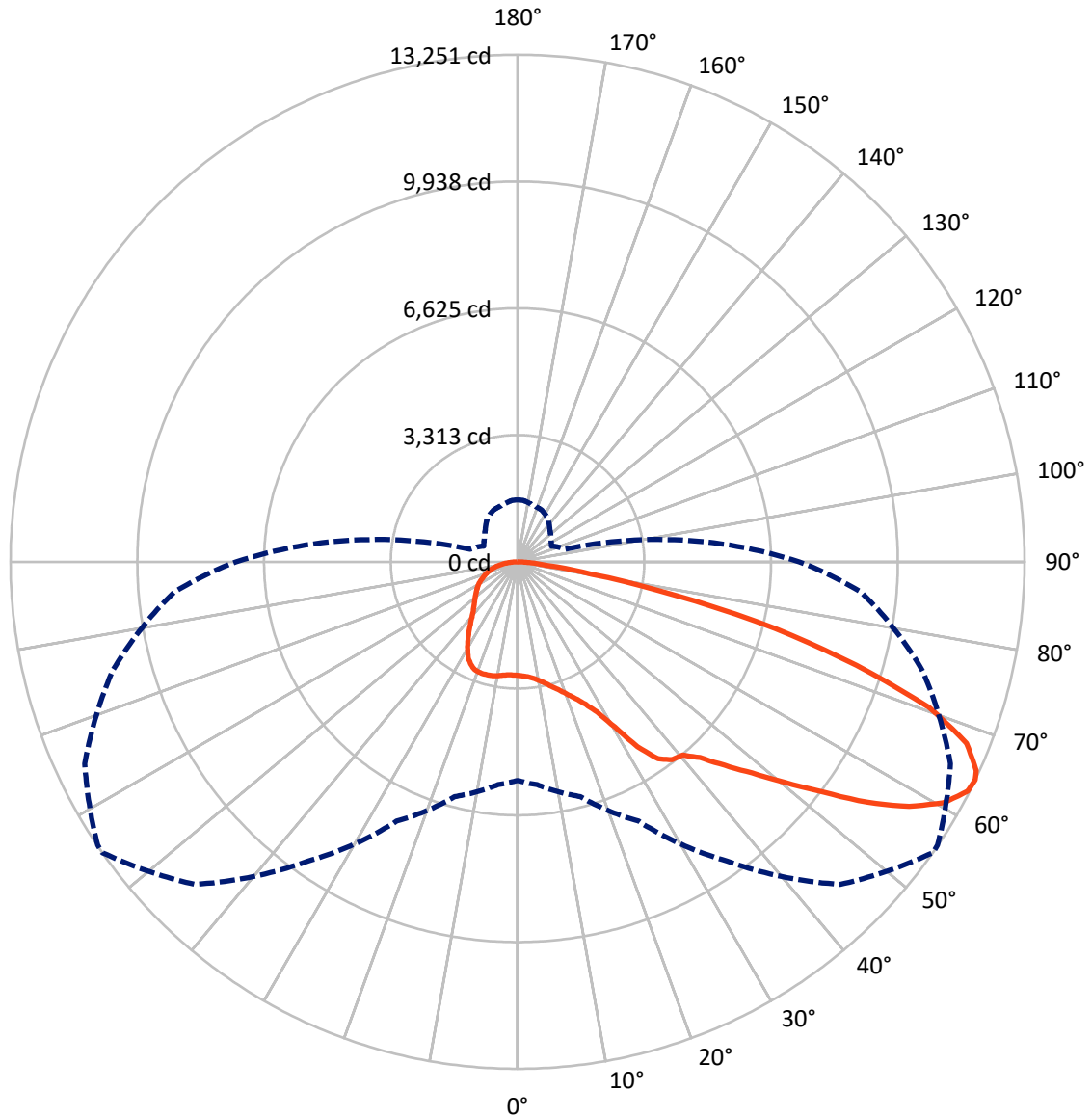
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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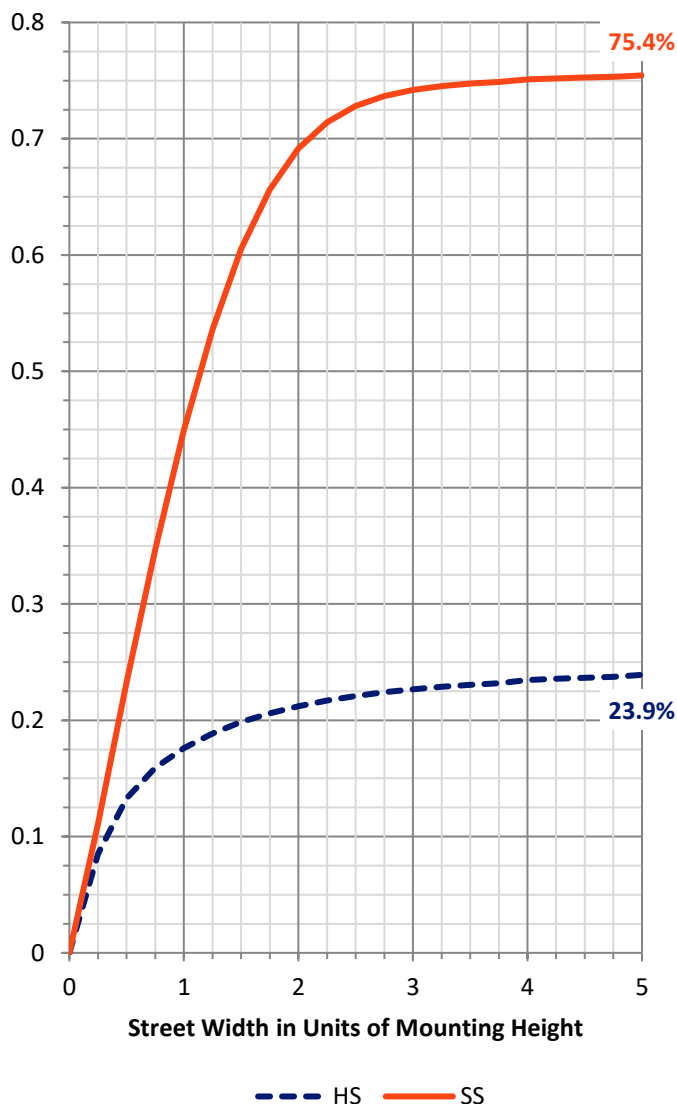
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.8	0.0	5374.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	16751.2	0.0	16751.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	22126.0	0.0	22126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.8	1.3
10°-20°	911.2	4.1
20°-30°	1622.1	7.3
30°-40°	2495.8	11.3
40°-50°	3538.0	16.0
50°-60°	5121.1	23.1
60°-70°	5299.8	24.0
70°-80°	2481.9	11.2
80°-90°	367.4	1.7
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°	22126.0	100.0
0°-180°	22126.0	100.0

Coefficient of Utilization



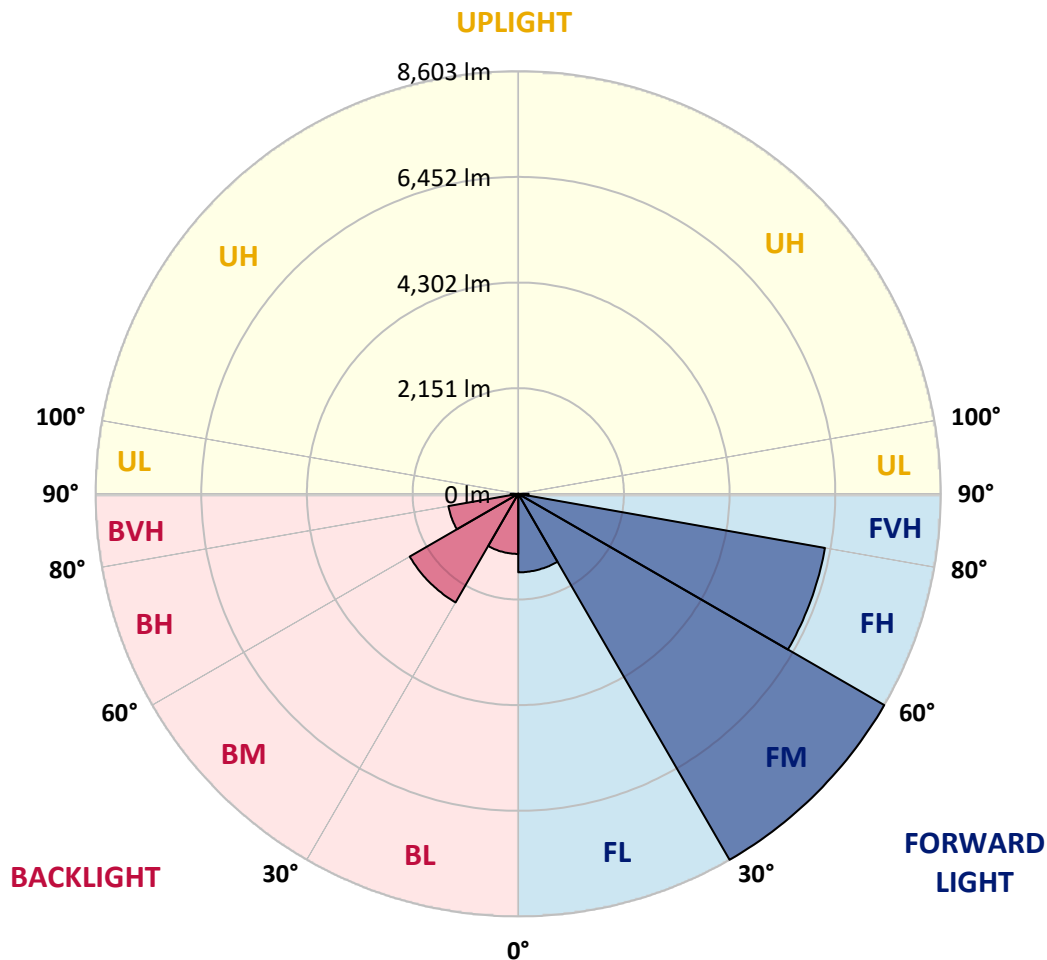
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.9	7.2			
FM (30°-60°)	8603.2	38.9			
FH (60°-80°)	6339.7	28.7			G3/7500
FVH (80°-90°)	210.4	1.0			G2/225
BL (0°-30°)	1224.2	5.5	B3/2500		
BM (30°-60°)	2551.7	11.5	B3/5000		
BH (60°-80°)	1442.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	157.0	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7
2.5°	3001.9	3000.7	3004.4	3000.7	3003.2	2994.5	2990.8	2993.3	2989.6	2983.5	2972.3
5°	3039.0	3037.7	3039.0	3034.0	3036.5	3031.5	3022.9	3025.4	3019.2	3005.6	2989.6
7.5°	3101.9	3096.9	3096.9	3095.7	3090.7	3083.4	3077.2	3074.7	3068.6	3051.3	3026.6
10°	3183.2	3183.2	3184.5	3174.6	3180.8	3167.2	3161.0	3159.8	3138.8	3116.7	3082.1
12.5°	3290.6	3296.7	3293.0	3288.1	3285.6	3280.7	3259.7	3264.6	3241.2	3202.9	3161.0
15°	3423.7	3433.6	3427.4	3425.0	3418.8	3400.3	3391.6	3388.0	3357.1	3301.7	3246.2
17.5°	3600.1	3587.8	3582.9	3576.7	3550.7	3537.2	3522.4	3520.0	3492.8	3427.4	3341.1
20°	3754.3	3771.6	3761.7	3755.5	3729.6	3703.7	3692.6	3688.9	3665.5	3594.0	3455.8
22.5°	3938.0	3941.8	3945.5	3930.7	3918.3	3898.6	3878.8	3872.7	3864.0	3790.0	3621.1
25°	4134.2	4149.0	4136.6	4121.8	4107.0	4105.8	4124.3	4121.8	4118.1	4046.5	3840.6
27.5°	4453.5	4467.2	4470.9	4454.8	4398.1	4403.0	4444.9	4458.5	4515.2	4396.9	4123.0
30°	4633.6	4647.2	4678.0	4738.5	4828.5	4907.5	5008.6	5039.4	5093.6	4870.4	4458.5
32.5°	4744.7	4749.6	4805.1	4917.3	5187.5	5482.2	5757.2	5768.3	5802.9	5489.6	4765.7
35°	4919.7	4923.5	4967.9	5091.2	5408.2	5899.0	6324.5	6338.2	6309.7	5682.0	4908.7
37.5°	5135.6	5145.5	5173.8	5276.2	5654.8	6248.1	6560.1	6550.3	6298.7	5834.9	5161.5
40°	5450.1	5450.1	5416.8	5554.9	5915.1	6447.9	6642.7	6625.5	6558.9	6277.7	5546.3
42.5°	5727.6	5722.7	5801.6	5895.4	6240.7	6756.2	6989.3	7017.7	7127.5	6833.9	5984.2
45°	6089.0	6111.2	6155.6	6325.8	6794.5	7282.8	7583.8	7610.9	7766.3	7488.8	6496.0
47.5°	6454.0	6461.5	6600.8	6827.8	7480.2	7996.9	8243.7	8288.1	8429.9	8254.7	7047.3
50°	6713.1	6783.4	7006.6	7364.3	8186.9	8867.7	9060.1	9113.1	9363.5	9088.4	7689.8
52.5°	6986.9	7055.9	7328.5	7873.6	8998.4	9758.1	9995.0	10030.7	10291.0	9932.0	8347.2
55°	7221.2	7285.3	7594.9	8325.0	9644.7	10667.1	11096.4	11054.4	11179.0	10582.0	8854.2
57.5°	7259.4	7311.3	7701.0	8613.6	10130.6	11446.6	12062.0	12086.7	11942.4	11067.9	9272.2
60°	6963.5	7069.5	7517.2	8582.8	10348.9	11989.3	12782.3	12799.5	12390.1	11317.1	9438.8
62.5°	6439.2	6428.1	6969.6	8087.0	10043.1	12112.6	13206.5	13188.1	12565.3	11197.4	9277.1
64°	5715.3	5848.5	6354.1	7477.7	9549.7	11922.7	13250.9	13241.1	12481.4	10948.3	9002.2
65°	5273.7	5266.4	5765.9	6979.4	9058.8	11636.6	13172.0	13158.5	12306.3	10725.1	8788.8
67.5°	3807.3	3824.6	4317.9	5386.0	7364.3	10517.9	12657.7	12607.2	11615.6	9985.1	7977.2
70°	2306.3	2316.2	2703.5	3573.0	5286.1	8502.6	11409.6	11412.1	10558.6	8880.0	6789.5
72.5°	1214.8	1240.7	1396.2	2028.8	3210.4	5965.7	9256.2	9475.7	9065.0	7578.9	5363.8
75°	675.9	679.6	789.3	1000.2	1637.9	3338.6	6957.3	7020.1	7176.8	6100.1	3966.4
77.5°	515.5	523.0	557.5	646.3	891.7	1547.8	4210.6	4526.4	5057.9	4300.6	2263.2
80°	418.1	425.5	455.1	508.2	593.2	733.8	1956.1	2126.2	2707.1	1909.2	883.1
82.5°	325.6	320.6	358.9	393.5	431.7	434.2	802.9	888.0	1102.6	821.4	382.3
85°	241.7	241.7	272.6	265.2	278.7	254.1	354.0	391.0	441.5	349.1	177.6
87.5°	96.2	106.1	178.8	160.4	124.6	99.9	130.8	138.1	152.9	136.9	74.0
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°	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7	2968.7
2.5°	2973.6	2977.3	2968.7	2962.5	2960.0	2956.3	2952.6	2953.9	2958.8	2963.7	2962.5
5°	2988.4	2989.6	2974.8	2967.4	2962.5	2957.5	2957.5	2961.2	2971.1	2978.5	2978.5
7.5°	3025.4	3025.4	3004.4	2990.8	2983.5	2974.8	2972.3	2973.6	2981.0	2990.8	2992.1
10°	3083.4	3078.4	3051.3	3030.3	3016.7	2995.8	2977.3	2967.4	2971.1	2977.3	2977.3
12.5°	3153.6	3140.1	3105.5	3077.2	3043.9	3004.4	2966.2	2946.4	2945.2	2951.4	2948.9
15°	3228.9	3214.1	3166.0	3114.1	3056.2	2998.3	2952.6	2924.3	2902.0	2895.8	2909.5
17.5°	3316.5	3285.6	3219.0	3147.5	3061.1	2985.9	2914.4	2856.4	2816.9	2805.9	2809.6
20°	3422.5	3381.8	3291.8	3179.5	3057.5	2941.5	2830.5	2752.8	2688.7	2668.9	2671.4
22.5°	3569.3	3499.0	3367.0	3195.6	3026.6	2857.6	2703.5	2602.4	2524.6	2493.8	2512.3
25°	3735.8	3659.4	3438.5	3191.9	2946.4	2723.2	2553.0	2421.0	2350.7	2305.1	2314.9
27.5°	3965.2	3829.5	3515.0	3158.5	2831.7	2559.2	2361.8	2237.3	2173.1	2149.7	2160.8
30°	4258.7	4050.3	3597.7	3068.6	2650.5	2352.0	2169.5	2088.0	2049.8	2020.2	2030.1
32.5°	4470.9	4205.6	3616.1	2916.8	2454.3	2163.3	2038.7	1978.2	1936.4	1907.9	1914.1
35°	4622.5	4337.7	3607.5	2730.6	2249.6	2007.8	1935.1	1885.8	1818.0	1756.3	1745.2
37.5°	4826.0	4502.9	3544.6	2527.1	2047.3	1903.0	1851.2	1759.9	1662.5	1579.9	1576.2
40°	5138.0	4696.5	3410.2	2287.8	1874.7	1825.3	1762.5	1644.1	1539.2	1472.6	1467.7
42.5°	5460.0	4875.3	3227.7	2036.3	1732.9	1744.0	1667.5	1550.3	1486.1	1443.0	1438.1
45°	5853.4	5069.0	3030.3	1818.0	1628.0	1667.5	1584.9	1517.0	1478.8	1450.4	1443.0
47.5°	6279.0	5267.6	2808.3	1621.8	1539.2	1597.2	1550.3	1519.5	1498.5	1478.8	1470.2
50°	6737.7	5489.6	2599.9	1464.0	1459.0	1524.4	1546.6	1535.5	1523.2	1517.0	1509.6
52.5°	7240.9	5716.5	2424.7	1352.9	1388.7	1472.6	1547.8	1556.4	1556.4	1552.8	1547.8
55°	7581.3	5874.4	2247.1	1262.9	1317.2	1430.7	1545.4	1578.7	1591.0	1586.0	1581.1
57.5°	7832.9	5960.7	2023.9	1185.2	1256.8	1390.0	1531.8	1581.1	1593.5	1599.7	1597.2
60°	7884.7	5880.6	1731.6	1103.9	1191.4	1330.8	1482.5	1544.2	1560.2	1598.4	1602.1
62.5°	7651.6	5633.9	1440.6	1023.7	1111.2	1240.7	1415.9	1502.2	1534.3	1593.5	1599.7
64°	7365.5	5357.6	1279.0	973.1	1059.4	1190.2	1382.5	1491.1	1533.0	1612.0	1616.9
65°	7155.8	5156.6	1177.9	941.0	1026.1	1156.9	1364.1	1494.8	1544.2	1640.3	1647.7
67.5°	6383.7	4464.7	974.4	865.8	947.2	1100.1	1367.7	1525.7	1541.6	1651.4	1650.2
70°	5282.4	3554.5	816.4	796.7	870.8	1054.5	1352.9	1476.3	1477.5	1550.3	1533.0
72.5°	3955.3	2627.0	707.9	725.2	785.7	945.9	1277.7	1409.7	1388.7	1398.6	1381.4
75°	2717.0	1737.8	609.3	648.7	696.9	836.2	1171.7	1280.2	1246.9	1234.6	1222.3
77.5°	1450.4	960.7	506.9	573.5	605.6	722.7	1022.4	1127.3	1092.8	1044.6	1028.6
80°	587.1	452.7	408.3	474.8	493.4	582.2	851.0	916.3	890.5	806.6	779.5
82.5°	294.8	271.3	320.6	373.7	374.9	415.6	632.7	694.4	636.4	534.0	510.6
85°	154.2	159.1	220.8	262.7	231.8	224.5	379.8	420.5	386.0	335.4	302.2
87.5°	55.5	64.1	116.0	114.7	81.4	43.1	83.9	40.7	22.2	13.5	17.3
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)