

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: P530114

Luminaire Tested: **GALN-SA5B-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-740-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25041 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

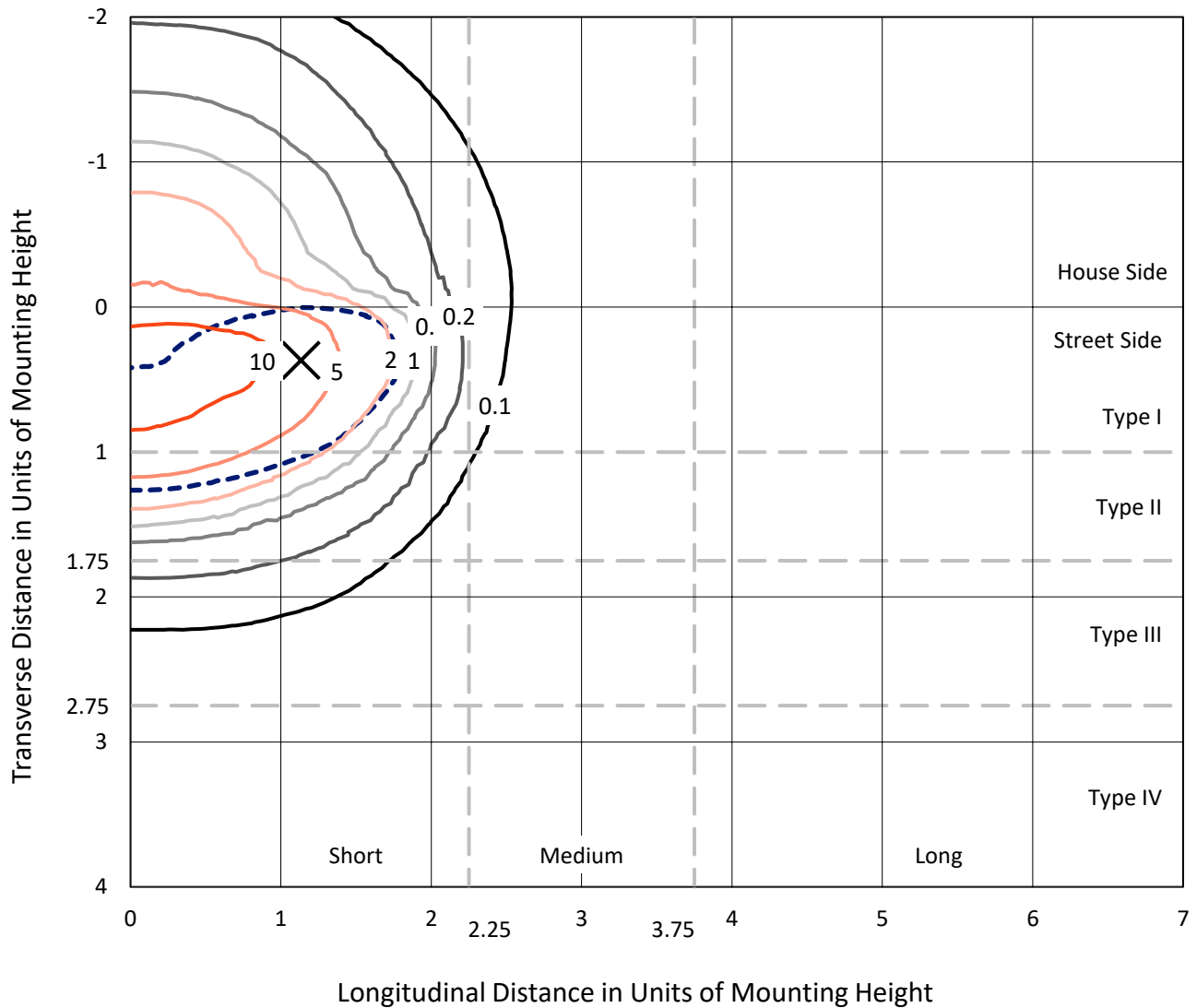
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

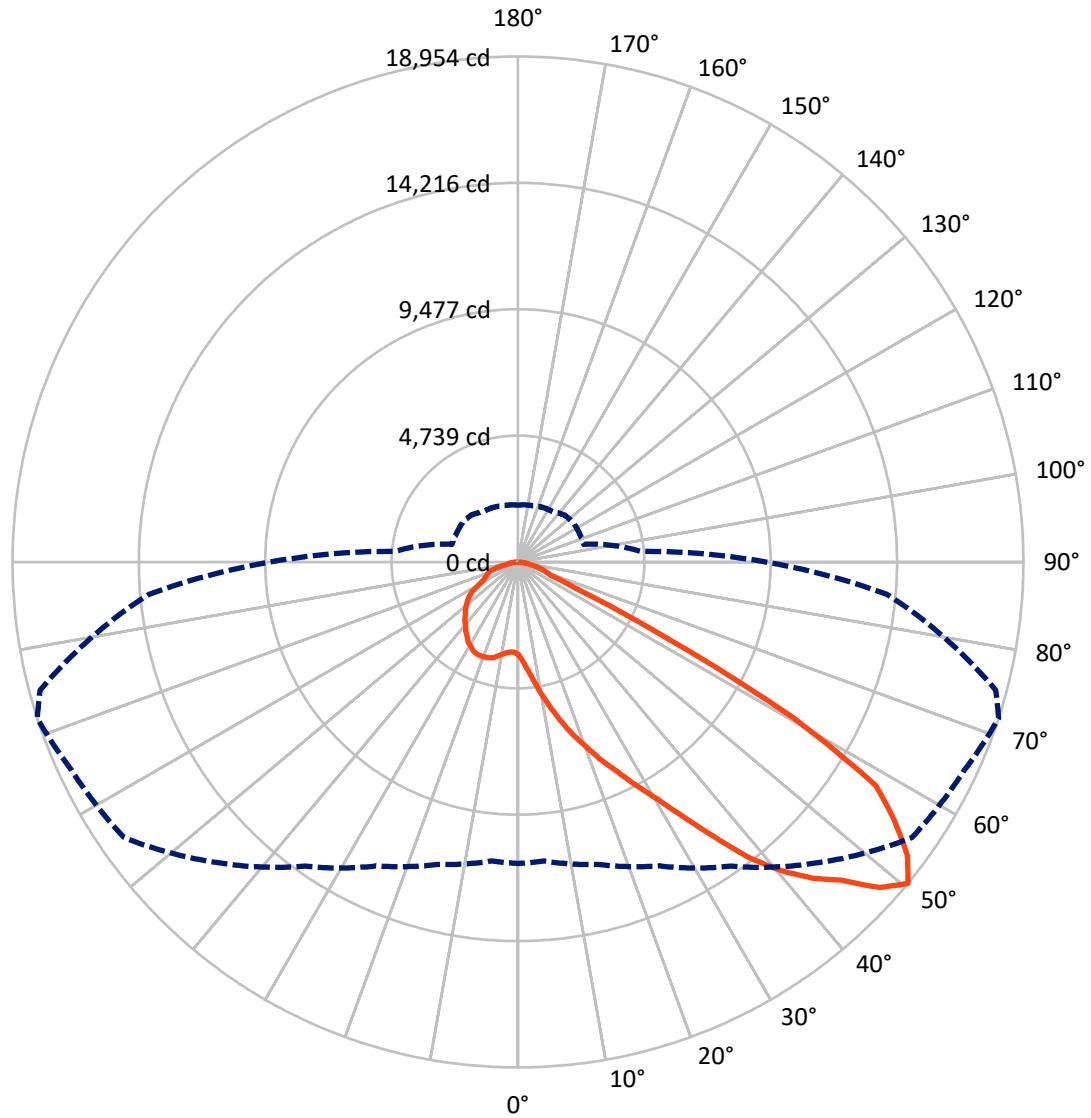
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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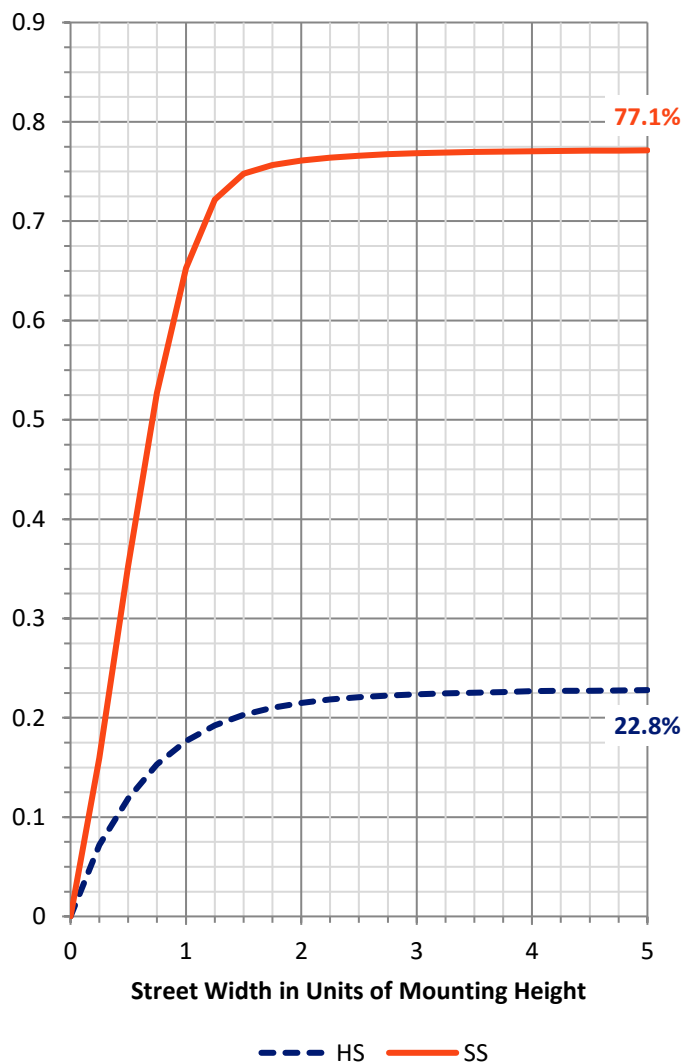
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5737.0	0.0	5737.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19304.0	0.0	19304.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	25041.0	0.0	25041.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.0	1.6
10°-20°	1532.8	6.1
20°-30°	2972.1	11.9
30°-40°	4923.7	19.7
40°-50°	6889.3	27.5
50°-60°	5812.0	23.2
60°-70°	1771.5	7.1
70°-80°	621.5	2.5
80°-90°	108.1	0.4
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°	25041.0	100.0
0°-180°	25041.0	100.0



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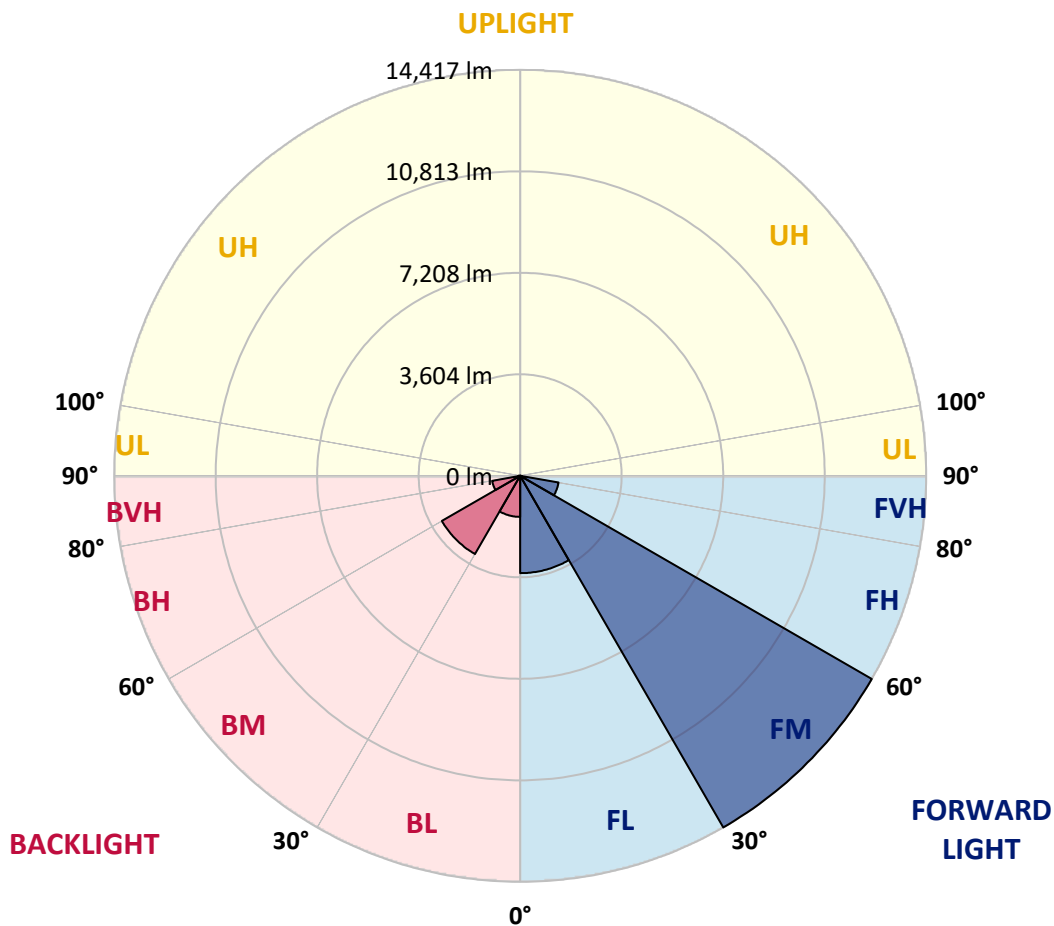
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3456.6	13.8			
FM (30°-60°)	14416.8	57.6			
FH (60°-80°)	1382.2	5.5			G1/1800
FVH (80°-90°)	48.4	0.2			G1/100
BL (0°-30°)	1458.4	5.8	B3/2500		
BM (30°-60°)	3208.2	12.8	B3/5000		
BH (60°-80°)	1010.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	59.7	0.2			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9
2.5°	4483.7	4455.8	4372.1	4344.2	4245.1	4065.4	4003.4	3820.6	3743.1	3671.8	3588.2
5°	5670.4	5540.3	5531.0	5373.0	5143.7	5010.4	4613.8	4347.3	4102.5	3978.6	3749.3
7.5°	6426.5	6429.6	6429.6	6299.4	6116.6	5778.9	5422.5	4942.3	4573.5	4390.7	4000.3
10°	7145.4	7083.4	7049.3	7036.9	6913.0	6584.5	6203.4	5608.5	5103.4	4889.6	4189.3
12.5°	7653.5	7600.9	7678.3	7638.0	7548.2	7334.4	6974.9	6296.3	5664.2	5376.1	4493.0
15°	7895.2	7932.4	7994.4	8105.9	8065.6	7985.1	7588.5	7002.8	6268.5	5943.1	4762.5
17.5°	8267.1	8164.8	8239.2	8378.6	8490.2	8453.0	8226.8	7514.1	6866.5	6466.8	5125.1
20°	8527.3	8468.5	8505.6	8666.8	8750.4	8961.1	8843.4	8183.4	7439.7	7018.3	5552.7
22.5°	9271.0	9184.2	9063.4	9088.2	9119.2	9267.9	9295.8	8917.8	8105.9	7659.7	5958.6
25°	10188.2	10107.6	9965.1	9819.5	9729.6	9701.7	9797.8	9494.1	8744.2	8282.5	6395.5
27.5°	11198.3	11062.0	10972.1	10671.6	10429.9	10392.7	10346.2	10182.0	9500.3	9001.4	6888.2
30°	12180.6	12072.1	11951.3	11471.0	11220.0	11179.7	10950.4	10996.9	10321.4	9766.8	7445.9
32.5°	12924.2	12933.5	12657.8	12295.2	12059.7	11845.9	11762.3	11895.5	11374.9	10928.7	8068.7
35°	13525.4	13553.3	13289.9	12961.4	12707.3	12856.1	12818.9	12880.9	12633.0	12087.6	8793.8
37.5°	14111.0	13971.6	13689.6	13531.6	13398.3	13643.1	13959.2	14011.9	14058.3	13416.9	9636.6
40°	14207.1	14219.5	14055.2	14166.8	13999.5	14368.2	15102.6	15034.4	15223.4	14662.6	10550.7
42.5°	14070.7	14098.6	14163.7	14321.7	14724.5	15167.6	16258.3	15979.5	16208.8	15709.9	11440.0
45°	13847.6	13733.0	13813.5	14414.7	15111.9	16097.2	17315.0	17098.1	17023.7	16605.4	12499.7
47.5°	12781.7	12899.5	13150.4	13891.0	14938.3	16258.3	18064.8	18015.2	18238.3	17944.0	13463.4
50°	11303.7	11257.2	11740.6	12574.1	13925.1	15942.3	18024.5	18473.8	18954.1	18545.1	13894.1
52.5°	8465.4	8713.3	9128.5	10163.4	12090.7	14219.5	17144.5	17894.4	18284.8	18198.1	13547.1
55°	5351.3	5425.6	5676.6	6906.8	8642.0	11412.1	14696.6	16435.0	17132.1	17457.5	13227.9
57.5°	2599.7	2460.3	2767.0	3755.5	4991.8	7675.2	11334.7	14315.5	15830.7	16419.5	12533.8
60°	1357.2	1409.9	1530.7	1883.9	2581.1	3984.8	7064.8	9540.6	11855.2	12760.0	9500.3
62.5°	1124.8	1143.4	1223.9	1400.6	1716.6	2293.0	3606.8	4651.0	6045.4	6860.3	5404.0
65°	954.4	963.7	1050.4	1168.2	1369.6	1614.4	1856.1	1942.8	2351.8	2413.8	1921.1
67.5°	796.3	805.6	898.6	1010.1	1140.3	1205.4	1267.3	1261.1	1307.6	1289.0	1285.9
70°	613.5	622.8	718.9	836.6	901.7	864.5	1056.6	1100.0	1118.6	1134.1	1158.9
72.5°	443.1	461.7	536.1	619.7	585.6	672.4	870.7	935.8	960.6	969.9	1000.8
75°	322.3	328.5	347.0	322.3	371.8	467.9	613.5	694.1	725.1	734.4	780.8
77.5°	142.5	145.6	148.7	185.9	238.6	291.3	365.6	430.7	474.1	486.5	498.9
80°	74.4	77.5	96.1	127.0	170.4	213.8	266.5	303.7	331.5	334.6	347.0
82.5°	46.5	49.6	68.2	89.9	120.8	158.0	195.2	226.2	247.9	251.0	254.1
85°	21.7	27.9	40.3	55.8	80.6	102.3	105.4	89.9	96.1	99.2	93.0
87.5°	6.2	9.3	12.4	9.3	12.4	12.4	15.5	18.6	18.6	18.6	21.7
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°	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9	3485.9
2.5°	3541.7	3513.8	3405.4	3365.1	3259.7	3278.3	3222.5	3219.4	3207.0	3203.9	3200.8
5°	3628.5	3541.7	3411.6	3312.4	3253.5	3247.3	3207.0	3207.0	3219.4	3228.7	3207.0
7.5°	3771.0	3671.8	3451.8	3358.9	3306.2	3296.9	3269.0	3247.3	3275.2	3265.9	3241.1
10°	3935.2	3761.7	3529.3	3448.7	3362.0	3340.3	3340.3	3349.6	3303.1	3318.6	3293.8
12.5°	4118.0	3885.6	3628.5	3535.5	3433.2	3420.9	3414.7	3346.5	3371.3	3358.9	3296.9
15°	4350.4	4028.2	3755.5	3597.5	3510.7	3454.9	3374.4	3362.0	3346.5	3315.5	3287.6
17.5°	4601.4	4183.1	3814.4	3616.1	3485.9	3445.6	3383.7	3318.6	3272.1	3278.3	3256.6
20°	4815.2	4325.6	3836.1	3634.7	3467.3	3389.9	3293.8	3253.5	3203.9	3200.8	3197.8
22.5°	5069.3	4517.8	3867.0	3585.1	3411.6	3331.0	3265.9	3194.7	3160.6	3117.2	3138.9
25°	5373.0	4592.1	3873.2	3557.2	3371.3	3228.7	3194.7	3117.2	3104.8	3042.8	3055.2
27.5°	5593.0	4632.4	3823.7	3470.4	3278.3	3169.9	3107.9	3052.1	3030.4	2983.9	2971.6
30°	5887.3	4694.4	3718.3	3362.0	3185.4	3064.5	3027.3	3014.9	2953.0	2903.4	2897.2
32.5°	6222.0	4734.7	3650.1	3250.4	3089.3	2996.3	3014.9	2956.1	2878.6	2835.2	2822.8
35°	6488.5	4750.1	3479.7	3123.4	3024.2	2965.4	2943.7	2931.3	2819.7	2779.4	2748.5
37.5°	6894.4	4716.1	3337.2	3033.5	2953.0	2931.3	2912.7	2829.0	2702.0	2643.1	2599.7
40°	7368.5	4706.8	3154.4	2906.5	2884.8	2909.6	2853.8	2723.7	2547.0	2482.0	2451.0
42.5°	7824.0	4771.8	3039.7	2838.3	2810.4	2819.7	2742.3	2547.0	2460.3	2423.1	2373.5
45°	8586.2	4908.2	2850.7	2733.0	2720.6	2714.4	2621.4	2416.9	2367.3	2320.8	2311.6
47.5°	9274.1	4818.3	2729.9	2624.5	2636.9	2602.8	2404.5	2339.4	2283.7	2237.2	2221.7
50°	9314.4	4604.5	2559.4	2540.8	2543.9	2485.1	2296.1	2252.7	2181.4	2150.4	2128.7
52.5°	9103.7	4254.4	2401.4	2407.6	2416.9	2320.8	2162.8	2131.8	2073.0	2029.6	2017.2
55°	8511.8	3709.0	2246.5	2271.3	2296.1	2113.2	2063.7	1986.2	1939.7	1877.7	1880.8
57.5°	7498.6	2987.0	2029.6	2069.9	2122.5	1921.1	1883.9	1787.9	1719.7	1670.1	1663.9
60°	5025.9	2125.6	1704.2	1719.7	1837.5	1756.9	1753.8	1657.7	1564.8	1521.4	1496.6
62.5°	2965.4	1623.7	1471.8	1456.3	1453.2	1499.7	1577.2	1543.1	1422.3	1338.6	1363.4
65°	1552.4	1403.7	1369.6	1316.9	1285.9	1273.5	1332.4	1347.9	1267.3	1177.5	1171.3
67.5°	1304.5	1304.5	1276.6	1258.0	1214.6	1162.0	1124.8	1075.2	1062.8	1038.0	1007.0
70°	1186.8	1217.7	1208.5	1165.1	1127.9	1069.0	973.0	892.4	814.9	787.0	805.6
72.5°	1034.9	1065.9	1065.9	1044.2	994.6	904.8	811.8	718.9	653.8	604.2	598.0
75°	796.3	811.8	849.0	824.2	759.2	703.4	607.3	511.3	449.3	402.8	393.5
77.5°	508.2	533.0	533.0	529.9	483.4	430.7	368.7	300.6	254.1	220.0	210.7
80°	337.7	353.2	365.6	353.2	322.3	282.0	235.5	189.0	154.9	127.0	120.8
82.5°	247.9	266.5	275.8	263.4	232.4	201.4	167.3	133.2	99.2	77.5	71.3
85°	96.1	99.2	111.5	133.2	130.1	127.0	102.3	74.4	55.8	40.3	37.2
87.5°	24.8	21.7	24.8	24.8	21.7	18.6	18.6	18.6	18.6	9.3	12.4
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)