

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: P648670

Luminaire Tested: **GALN-SA9B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40621.3 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

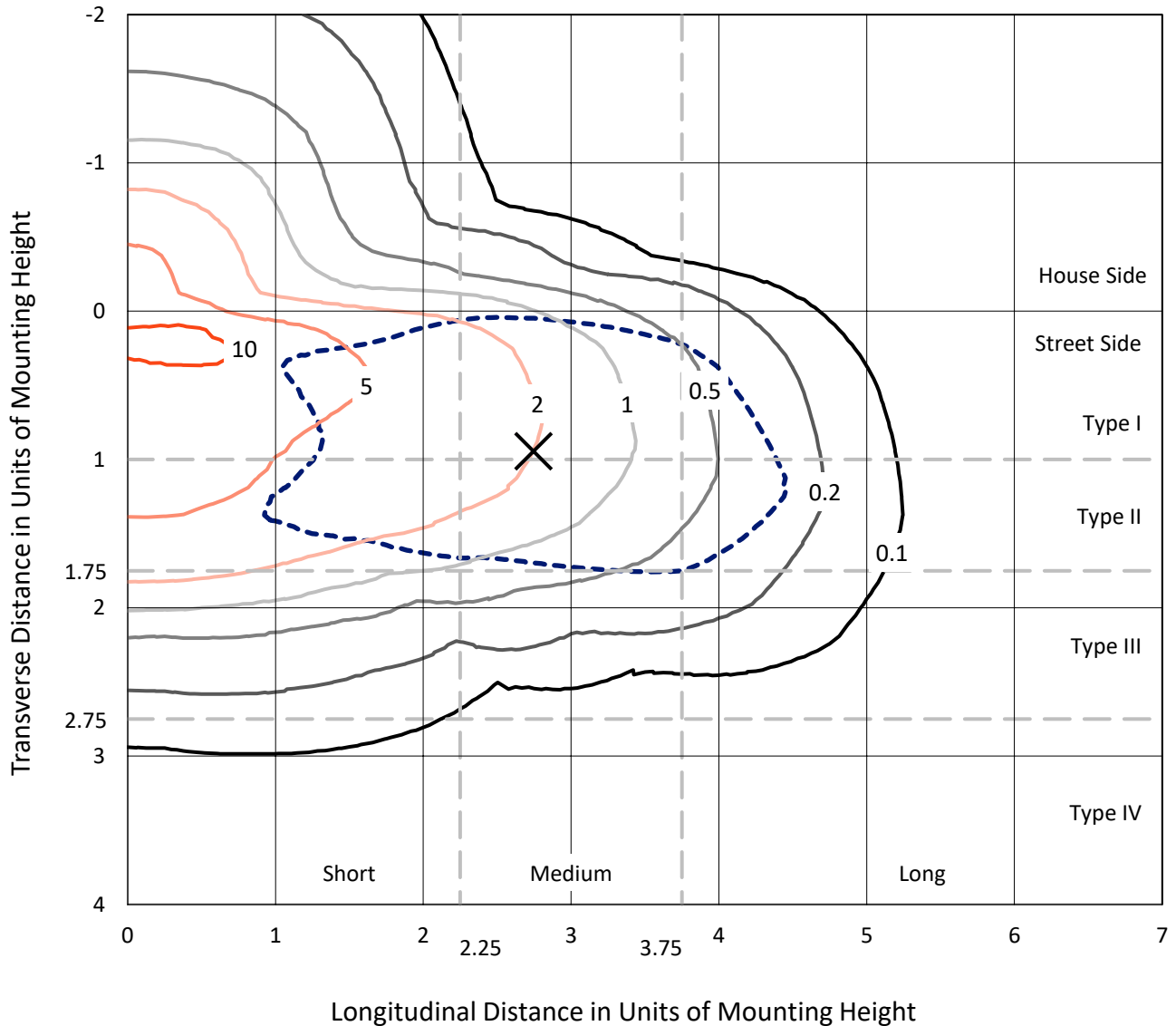
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

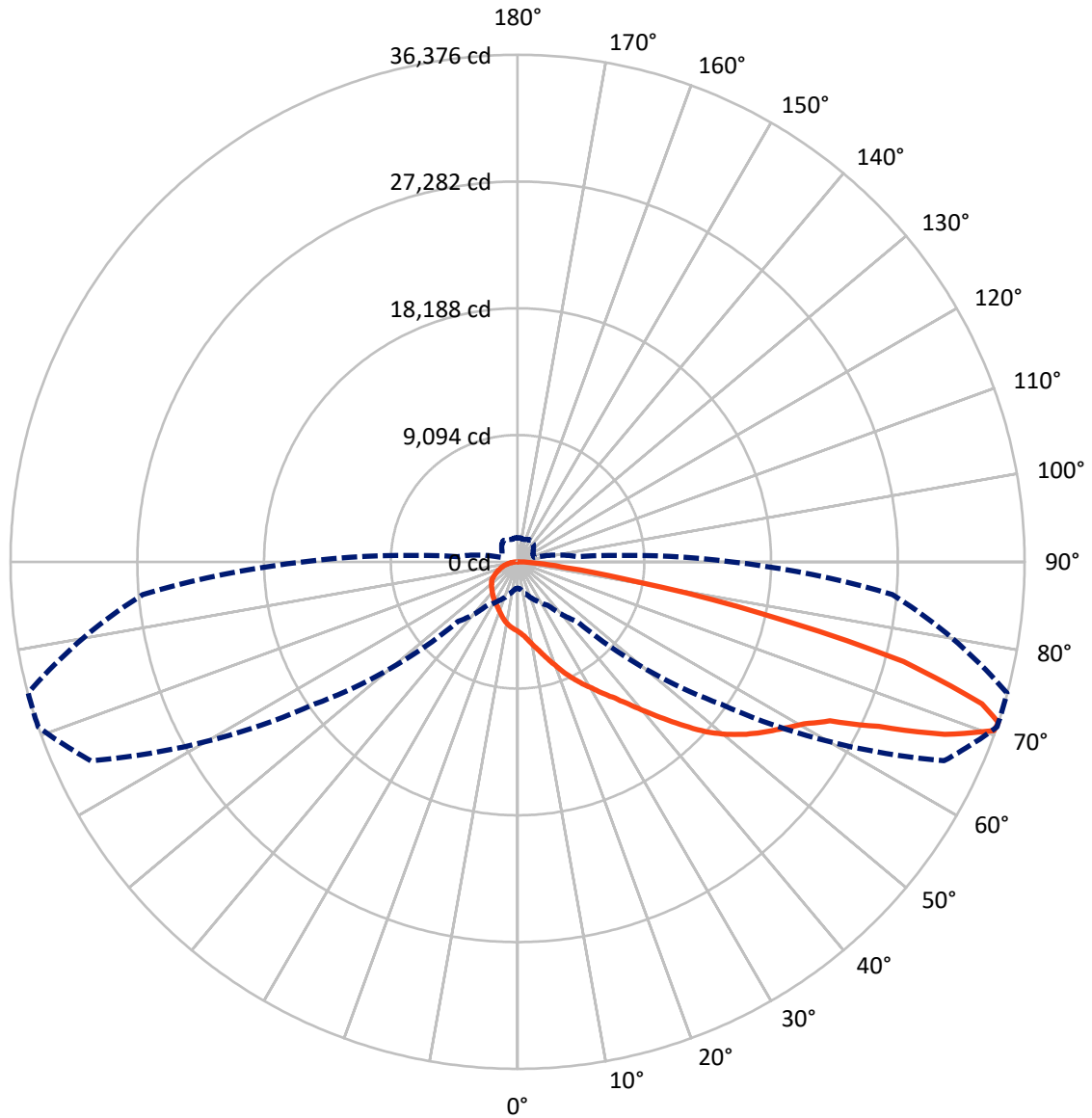
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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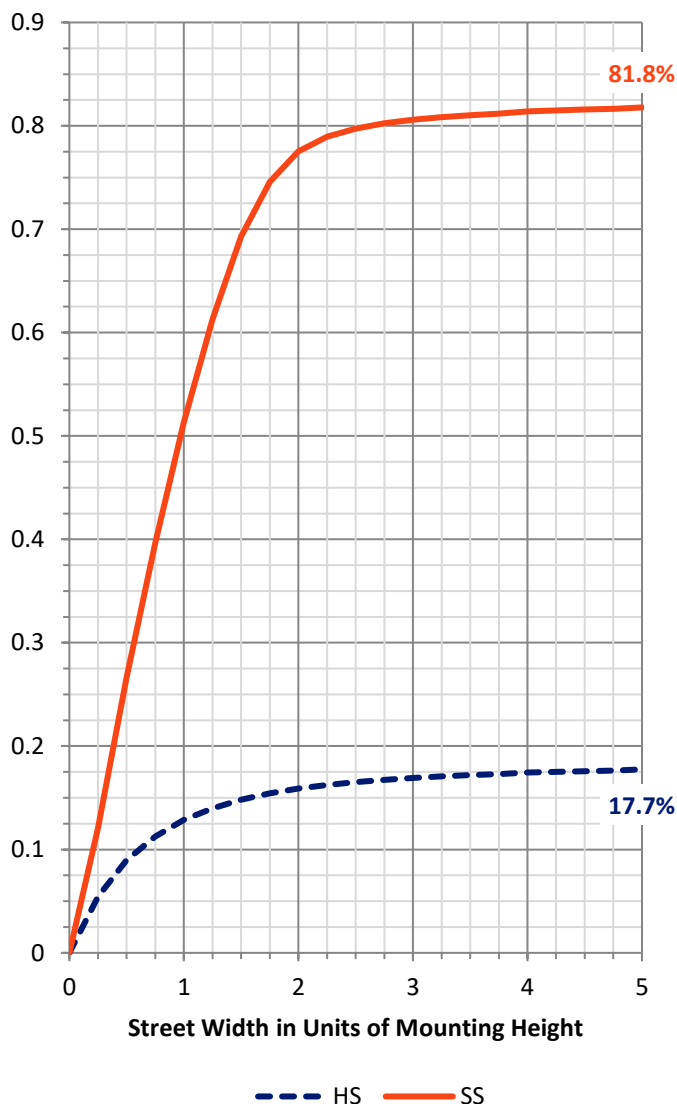
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7305.6	0.0	7305.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	33315.6	0.0	33315.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	40621.3	0.0	40621.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	1.2
10°-20°	1626.3	4.0
20°-30°	2842.1	7.0
30°-40°	4227.3	10.4
40°-50°	6228.4	15.3
50°-60°	8719.9	21.5
60°-70°	9752.9	24.0
70°-80°	5957.4	14.7
80°-90°	766.4	1.9
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°	40621.3	100.0
0°-180°	40621.3	100.0

Coefficient of Utilization

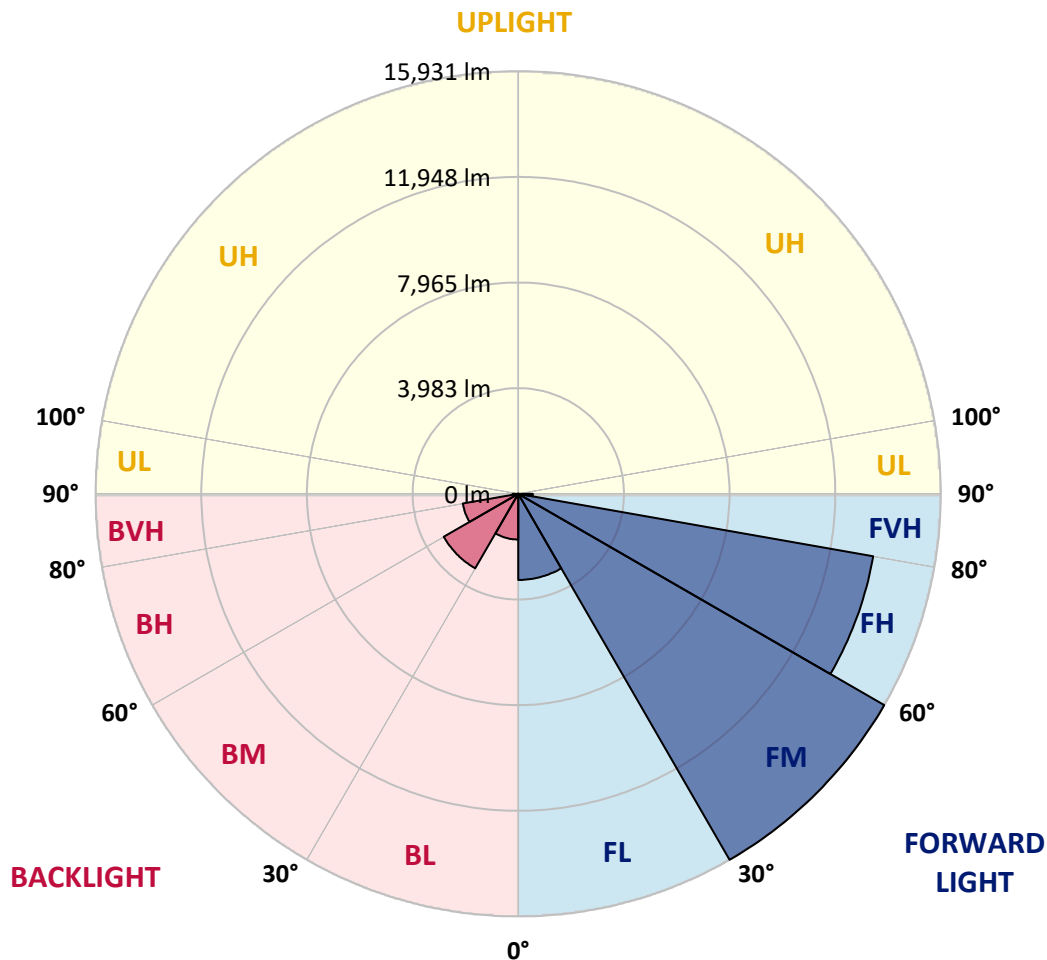


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3245.7	8.0			
FM (30°-60°)	15930.9	39.2			
FH (60°-80°)	13587.7	33.4			G5
FVH (80°-90°)	551.4	1.4			G4/750
BL (0°-30°)	1723.4	4.2	B3/2500		
BM (30°-60°)	3244.7	8.0	B3/5000		
BH (60°-80°)	2122.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	214.9	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-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4
2.5°	5534.7	5507.9	5510.1	5472.2	5423.1	5369.5	5293.5	5226.6	5173.0	5141.7	5050.2
5°	6133.0	6106.2	6072.7	5990.1	5954.4	5822.7	5655.2	5503.4	5387.4	5322.6	5139.5
7.5°	6617.5	6610.8	6601.9	6555.0	6463.4	6280.4	6137.5	5874.1	5702.1	5579.3	5266.8
10°	6916.7	6927.8	6934.6	6943.5	6905.5	6809.5	6613.1	6280.4	6061.6	5905.3	5432.0
12.5°	7068.5	7079.7	7117.6	7200.2	7251.6	7240.4	7079.7	6753.7	6452.3	6246.9	5608.4
15°	7162.3	7180.1	7247.1	7356.5	7528.4	7637.9	7559.7	7258.3	6927.8	6684.5	5818.2
17.5°	7265.0	7285.0	7358.7	7515.0	7740.5	7977.2	8062.0	7803.1	7443.6	7153.3	6052.7
20°	7323.0	7349.8	7454.7	7660.2	7923.6	8267.4	8548.7	8412.6	8019.6	7698.1	6322.8
22.5°	7416.8	7439.1	7528.4	7747.2	8062.0	8492.9	9035.4	9006.5	8660.4	8245.1	6619.7
25°	7671.3	7707.1	7751.7	7883.4	8187.0	8722.9	9439.5	9640.5	9281.1	8816.7	6892.1
27.5°	8151.3	8180.3	8178.1	8196.0	8367.9	8921.6	9790.1	10267.9	9897.3	9394.9	7155.6
30°	8698.3	8709.5	8718.4	8678.2	8716.2	9124.8	10111.6	10888.6	10517.9	9988.8	7385.6
32.5°	9363.7	9386.0	9310.0	9207.4	9176.1	9426.1	10377.3	11509.2	11252.4	10591.6	7613.3
35°	10149.6	10207.6	10053.5	9872.7	9745.5	9859.3	10734.5	12143.2	12004.9	11361.9	7914.6
37.5°	11047.0	11118.5	10975.6	10620.6	10439.7	10471.1	11201.1	12926.9	12955.9	12239.2	8363.5
40°	11781.6	11875.4	11879.8	11377.5	11102.9	11138.6	11792.8	13770.9	14103.5	13324.3	8892.5
42.5°	12266.1	12357.6	12453.6	12158.9	11870.9	12074.0	12482.6	14686.3	15393.9	14641.6	9631.5
45°	12797.4	12880.0	12933.6	12799.6	12638.9	13165.8	13315.4	15659.7	16769.3	16112.9	10439.7
47.5°	13413.7	13505.2	13556.5	13429.2	13368.9	14123.6	14212.9	16568.4	18238.3	17541.8	11332.8
50°	14235.3	14304.5	14277.7	14197.3	14183.9	14858.1	15074.7	17418.9	19450.7	19080.1	12259.4
52.5°	15257.8	15340.4	15369.4	15255.6	15204.2	15382.8	15769.1	18193.7	20553.6	20401.8	13248.4
55°	15876.2	16008.0	16450.0	16628.6	16751.4	16061.5	16517.0	19048.7	21542.6	21794.9	14311.1
57.5°	15083.6	15253.3	16242.4	17135.4	18289.7	17758.3	17577.5	19941.8	22531.7	23145.6	15583.7
60°	13150.2	13188.1	14462.9	16108.4	18430.3	19939.6	19790.0	21361.8	23603.4	24507.6	17260.5
62.5°	9122.5	9202.9	10710.0	13335.5	16693.3	20725.5	23554.2	23813.2	25139.4	26546.0	19718.6
65°	4704.2	4599.2	5972.3	8381.3	12585.3	18859.0	26604.0	28320.9	28470.5	29734.1	23179.1
67.5°	2895.7	2942.6	3585.6	4893.9	7441.3	13706.1	26284.8	33828.8	33040.6	33647.9	26391.9
70°	2174.5	2232.6	2674.6	3349.0	4536.7	7836.5	21138.5	35163.9	36264.6	36108.3	27369.8
71°	1891.0	1951.3	2411.2	3047.5	3811.1	6048.2	17809.6	33766.2	36376.2	36349.4	27001.4
72.5°	1612.0	1649.9	2009.3	2580.9	3212.7	4239.8	13380.1	30283.4	34824.6	35715.4	25686.4
75°	1265.9	1294.9	1455.7	1969.2	2529.6	2603.2	7180.1	22703.6	28602.2	30299.0	21384.1
77.5°	1031.4	1051.6	1134.2	1462.4	1951.3	1844.1	3766.5	14777.8	17919.0	19627.1	12596.5
80°	819.4	841.7	890.8	991.3	1462.4	1315.0	1797.3	7488.2	8655.9	8638.1	5027.9
82.5°	636.3	643.0	701.0	727.8	1000.2	933.3	973.4	3170.4	3511.9	3628.0	1815.2
85°	401.8	422.0	620.7	558.1	598.4	547.0	480.0	1259.2	1551.7	1529.4	725.6
87.5°	122.8	129.5	209.8	236.6	265.7	238.9	176.4	370.6	453.2	491.2	180.9
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°	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4	4985.4
2.5°	5014.5	4989.9	4902.8	4831.4	4764.4	4690.7	4628.2	4610.4	4594.7	4588.1	4585.8
5°	5061.4	4987.7	4815.8	4675.1	4563.5	4460.8	4396.1	4367.0	4338.0	4338.0	4346.9
7.5°	5128.3	4994.4	4728.7	4518.8	4378.1	4282.1	4235.3	4230.9	4237.5	4244.3	4246.4
10°	5202.0	4989.9	4601.5	4340.2	4215.2	4170.6	4172.8	4210.7	4246.4	4273.2	4277.7
12.5°	5273.5	4963.1	4451.8	4172.8	4092.4	4101.4	4163.8	4248.7	4317.9	4355.8	4358.1
15°	5353.8	4920.7	4271.0	4014.3	3987.5	4056.7	4172.8	4302.3	4407.2	4469.8	4476.4
17.5°	5420.8	4849.3	4081.2	3860.2	3893.7	4020.9	4181.7	4349.2	4476.4	4554.6	4567.9
20°	5496.7	4757.7	3884.8	3712.8	3808.8	3980.8	4163.8	4344.7	4476.4	4552.4	4570.2
22.5°	5557.0	4628.2	3697.2	3592.3	3733.0	3931.7	4103.5	4248.7	4355.8	4396.1	4422.9
25°	5581.5	4465.3	3520.8	3494.1	3672.7	3851.3	3967.4	4050.0	4083.5	4079.0	4090.2
27.5°	5568.1	4277.7	3369.0	3415.9	3596.8	3726.2	3784.3	3777.6	3717.3	3661.5	3688.3
30°	5512.3	4054.5	3241.8	3335.6	3498.5	3570.0	3561.0	3473.9	3360.1	3255.2	3261.9
32.5°	5411.9	3813.4	3123.5	3244.0	3360.1	3391.3	3331.1	3217.2	3054.2	2918.0	2898.0
35°	5327.1	3583.4	3018.5	3139.0	3221.7	3206.1	3148.0	3000.7	2853.3	2732.7	2712.6
37.5°	5313.7	3386.9	2918.0	3020.7	3067.6	3045.3	2973.8	2848.9	2795.2	2703.7	2692.6
40°	5385.1	3248.5	2815.4	2895.7	2918.0	2900.2	2822.0	2750.6	2799.7	2777.4	2777.4
42.5°	5579.3	3174.8	2723.8	2770.7	2788.6	2802.0	2746.1	2685.8	2746.1	2643.4	2610.0
45°	5887.5	3177.0	2641.2	2647.9	2701.5	2748.3	2710.4	2621.1	2589.9	2384.5	2344.2
47.5°	6340.7	3253.0	2574.2	2531.8	2627.8	2706.0	2652.3	2522.9	2384.5	2248.2	2223.7
50°	6869.8	3389.1	2514.0	2411.2	2529.6	2652.3	2612.2	2460.3	2317.4	2234.8	2219.3
52.5°	7457.0	3561.0	2440.3	2277.3	2409.0	2627.8	2621.1	2451.4	2255.0	2199.1	2185.7
55°	8182.6	3730.8	2348.7	2121.0	2301.9	2607.7	2596.6	2377.7	2241.6	2201.4	2196.9
57.5°	9026.5	3976.3	2217.0	1962.5	2179.0	2525.1	2500.5	2333.1	2196.9	2167.9	2165.6
60°	10386.2	4358.1	2029.5	1817.3	2054.0	2380.0	2411.2	2257.2	2125.5	2118.8	2116.5
62.5°	12174.6	4893.9	1835.2	1667.8	1908.9	2192.5	2281.7	2154.5	2049.6	2083.0	2087.5
65°	14643.8	5344.9	1634.3	1540.5	1748.1	2011.6	2159.0	2058.5	1964.7	2029.5	2029.5
67.5°	16253.5	5353.8	1451.2	1408.8	1585.2	1859.8	2029.5	1944.6	1855.3	1964.7	1969.2
70°	15918.6	4690.7	1299.4	1270.3	1426.6	1696.8	1886.6	1819.6	1716.9	1815.2	1779.4
71°	15378.4	4322.4	1239.1	1216.8	1364.1	1618.6	1819.6	1763.8	1661.1	1725.8	1705.8
72.5°	14516.6	3753.1	1140.9	1145.4	1270.3	1520.4	1725.8	1667.8	1565.1	1600.8	1594.1
75°	12270.5	3277.5	975.7	995.7	1091.7	1352.9	1538.3	1493.7	1388.7	1388.7	1382.0
77.5°	7671.3	2290.7	810.4	821.6	926.5	1158.8	1321.7	1283.7	1183.3	1149.8	1140.9
80°	2862.3	1183.3	634.1	647.5	712.2	913.1	1094.0	1058.3	955.6	917.6	881.9
82.5°	1082.8	593.9	466.6	455.5	524.7	696.6	857.3	814.9	734.5	643.0	616.2
85°	408.6	294.7	285.8	276.9	308.1	413.0	531.3	522.4	437.6	372.9	366.1
87.5°	107.2	96.0	111.7	82.6	87.1	78.1	80.3	33.5	15.7	6.7	4.5
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)