

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: P648175

Luminaire Tested: **GALN-SA9A-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648175
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-SA9A-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32646.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

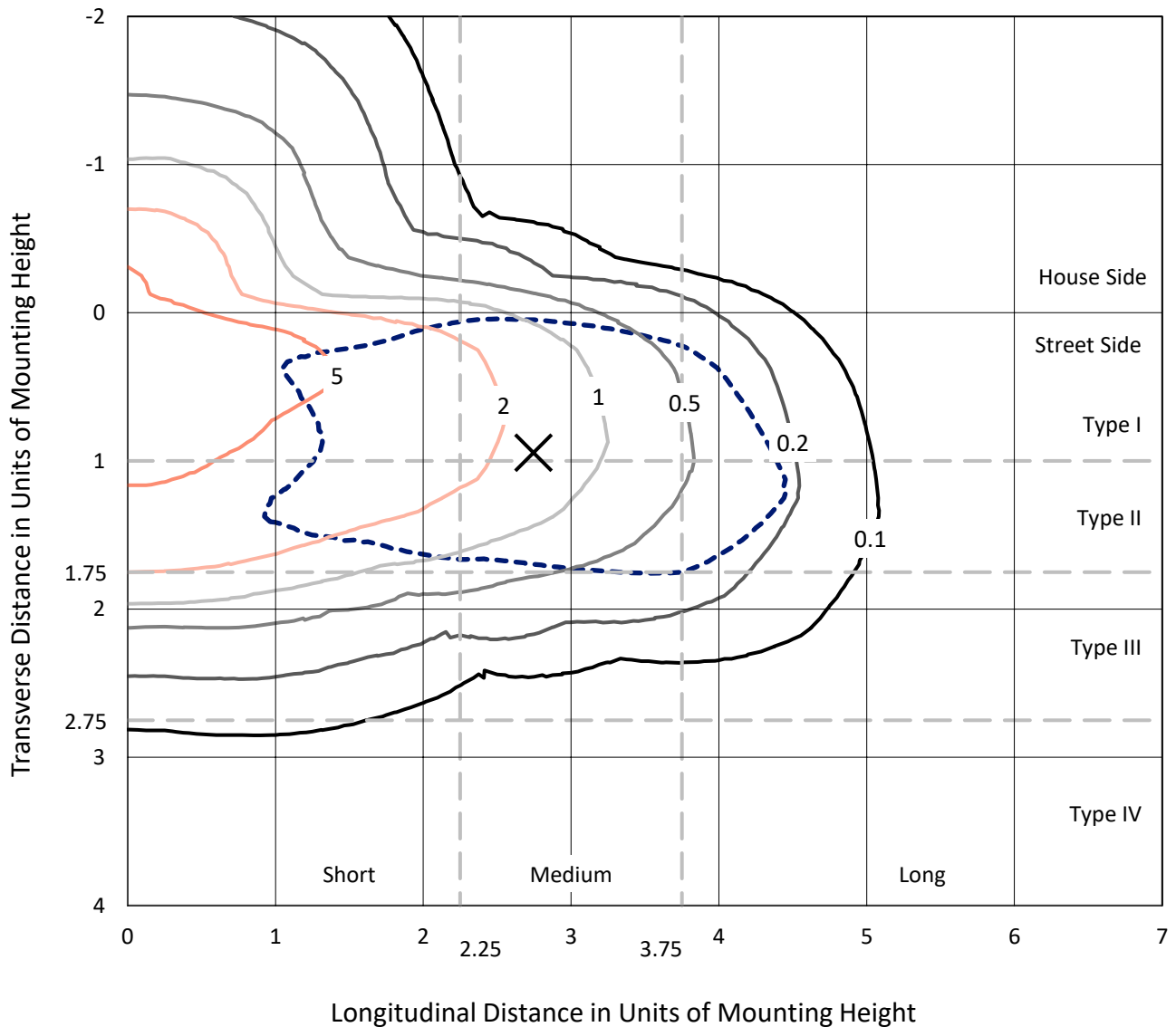
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

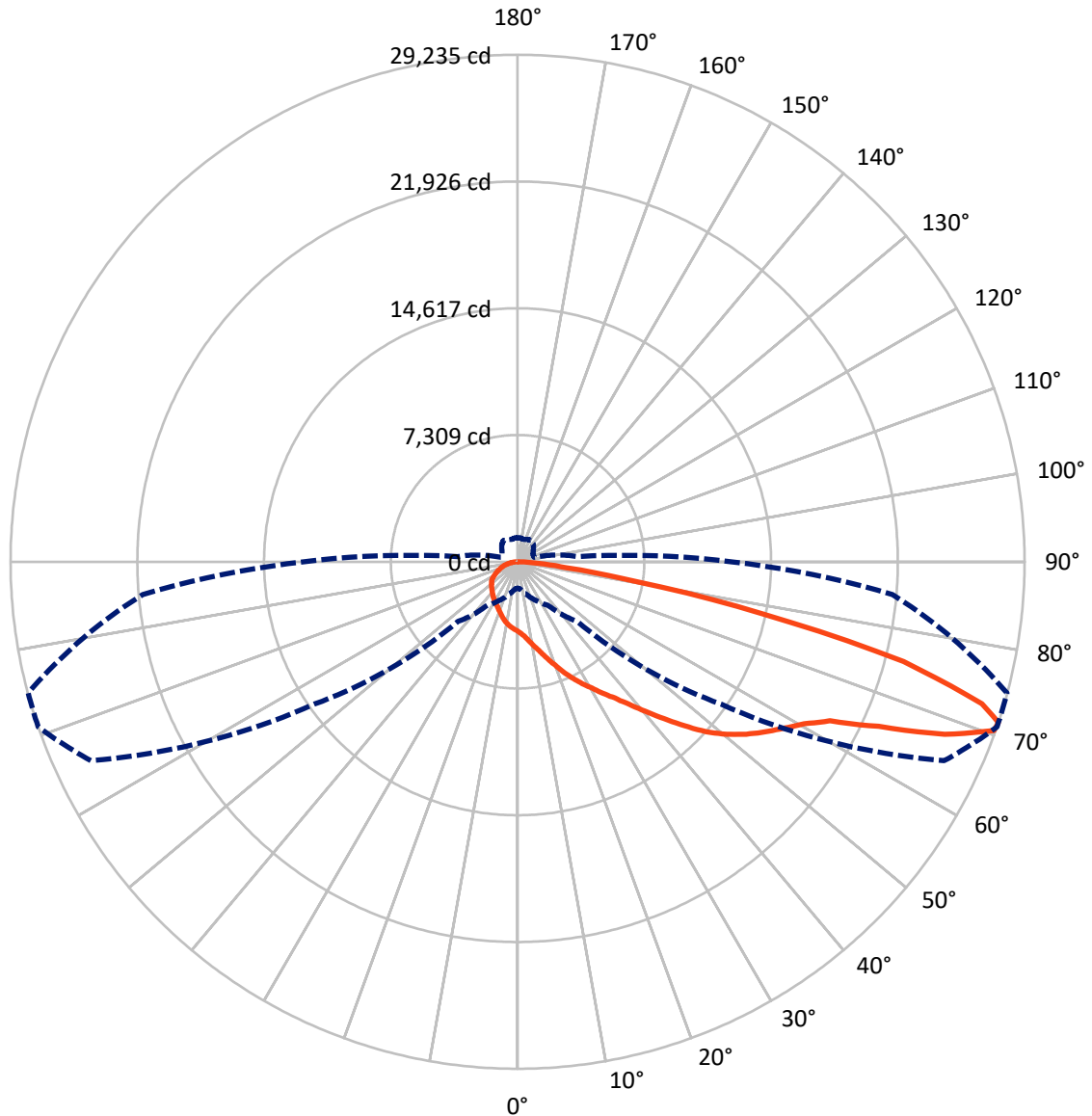
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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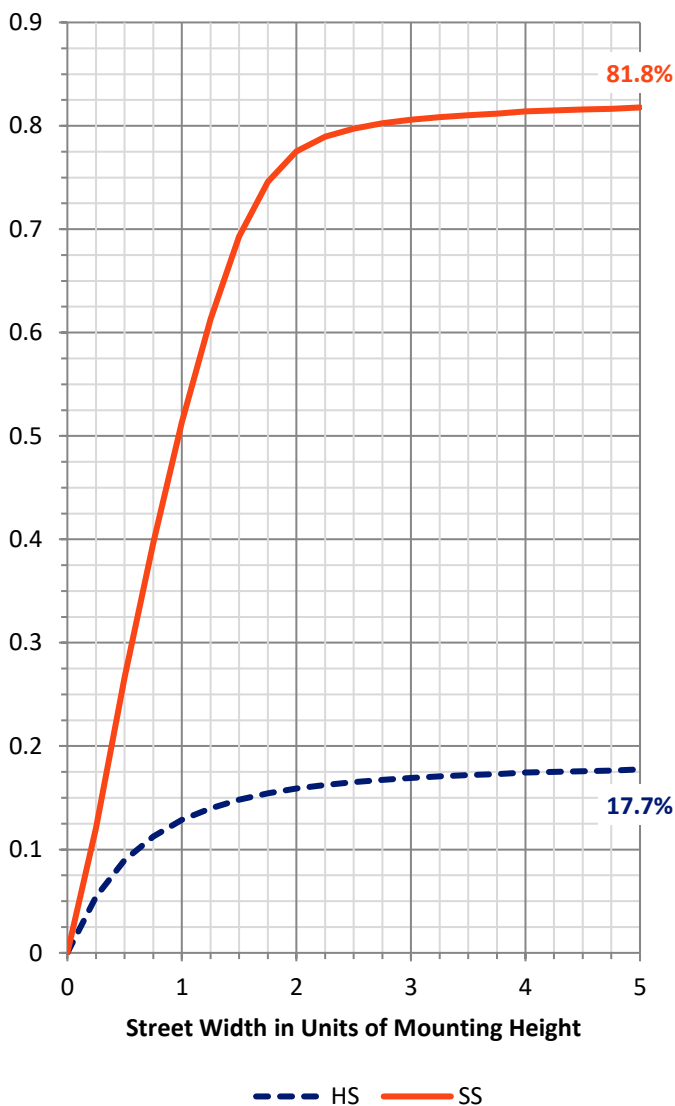
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5871.4	0.0	5871.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	26775.0	0.0	26775.0
	% Fixture	82.0	0.0	82.0
Total	Lumens	32646.4	0.0	32646.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.3	1.2
10°-20°	1307.0	4.0
20°-30°	2284.2	7.0
30°-40°	3397.4	10.4
40°-50°	5005.6	15.3
50°-60°	7008.0	21.5
60°-70°	7838.2	24.0
70°-80°	4787.9	14.7
80°-90°	615.9	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°	32646.4	100.0
0°-180°	32646.4	100.0

Coefficient of Utilization

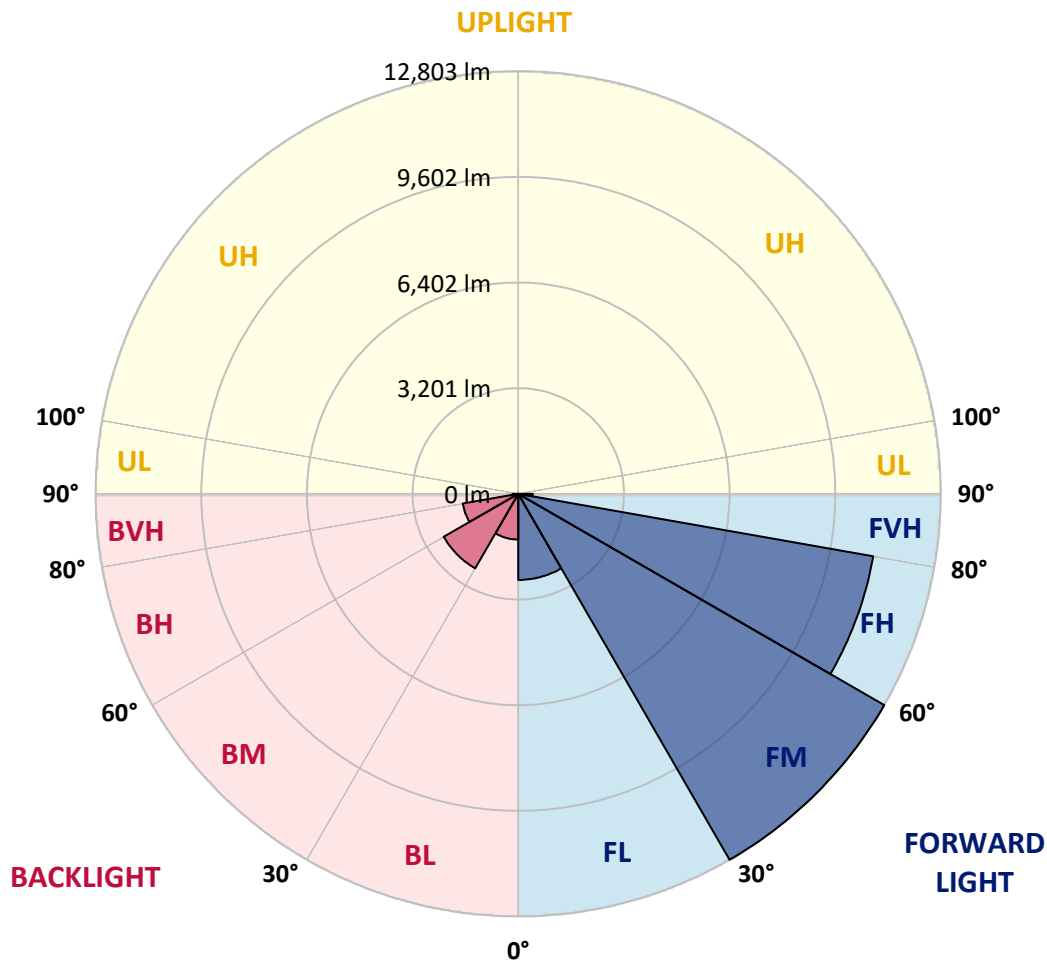


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2608.5	8.0			
FM (30°-60°)	12803.3	39.2			
FH (60°-80°)	10920.1	33.4			G4/12000
FVH (80°-90°)	443.2	1.4			G3/500
BL (0°-30°)	1385.0	4.2	B3/2500		
BM (30°-60°)	2607.7	8.0	B3/5000		
BH (60°-80°)	1705.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	172.7	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°	71°	75°	85°
0°	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7
2.5°	4448.1	4426.5	4428.3	4397.9	4358.4	4315.3	4254.4	4200.5	4157.4	4132.3	4058.8
5°	4929.0	4907.5	4880.5	4814.1	4785.5	4679.6	4545.0	4423.0	4329.7	4277.6	4130.5
7.5°	5318.4	5313.0	5305.8	5268.1	5194.5	5047.4	4932.6	4720.9	4582.7	4484.0	4232.8
10°	5558.8	5567.8	5573.2	5580.3	5549.8	5472.6	5314.8	5047.4	4871.6	4746.0	4365.5
12.5°	5680.8	5689.7	5720.3	5786.7	5827.9	5818.9	5689.7	5427.8	5185.6	5020.5	4507.3
15°	5756.1	5770.5	5824.3	5912.3	6050.4	6138.3	6075.5	5833.4	5567.8	5372.2	4676.0
17.5°	5838.7	5854.9	5914.1	6039.7	6220.9	6411.0	6479.2	6271.1	5982.3	5748.9	4864.4
20°	5885.3	5906.9	5991.2	6156.3	6368.0	6644.4	6870.4	6761.0	6445.2	6186.8	5081.5
22.5°	5960.7	5978.7	6050.4	6226.3	6479.2	6825.6	7261.6	7238.3	6960.2	6626.4	5320.2
25°	6165.3	6194.0	6229.9	6335.7	6579.8	7010.4	7586.3	7747.9	7458.9	7085.8	5539.0
27.5°	6551.0	6574.4	6572.6	6586.9	6725.1	7170.1	7868.1	8252.0	7954.2	7550.5	5750.7
30°	6990.6	6999.6	7006.8	6974.5	7005.0	7333.3	8126.4	8750.9	8453.0	8027.8	5935.6
32.5°	7525.3	7543.3	7482.3	7399.7	7374.6	7575.6	8340.0	9249.7	9043.3	8512.2	6118.6
35°	8157.0	8203.6	8079.8	7934.5	7832.2	7923.7	8627.1	9759.2	9648.0	9131.3	6360.9
37.5°	8878.3	8935.7	8820.8	8535.6	8390.2	8415.3	9002.1	10389.1	10412.4	9836.4	6721.5
40°	9468.6	9544.0	9547.5	9143.8	8923.1	8951.8	9477.6	11067.3	11334.7	10708.5	7146.8
42.5°	9858.0	9931.5	10008.7	9771.8	9540.4	9703.6	10032.0	11803.0	12371.8	11767.1	7740.7
45°	10285.0	10351.4	10394.5	10286.8	10157.6	10581.1	10701.3	12585.3	13477.1	12949.6	8390.2
47.5°	10780.3	10853.8	10895.1	10792.8	10744.3	11350.8	11422.6	13315.6	14657.8	14097.9	9107.9
50°	11440.6	11496.2	11474.6	11410.0	11399.3	11941.1	12115.2	13999.3	15632.0	15334.2	9852.6
52.5°	12262.3	12328.7	12352.1	12260.5	12219.3	12362.8	12673.2	14621.9	16518.5	16396.4	10647.5
55°	12759.4	12865.2	13220.5	13364.0	13462.7	12908.3	13274.4	15309.1	17313.3	17516.1	11501.6
57.5°	12122.4	12258.7	13053.6	13771.3	14699.0	14272.0	14126.7	16026.8	18108.2	18601.7	12524.3
60°	10568.5	10599.0	11623.6	12946.0	14812.1	16025.0	15904.8	17168.0	18969.5	19696.2	13871.9
62.5°	7331.5	7396.1	8607.3	10717.5	13416.1	16656.6	18930.0	19138.2	20204.0	21334.4	15847.4
65°	3780.6	3696.3	4799.8	6735.8	10114.6	15156.5	21381.1	22760.9	22881.1	23896.7	18628.6
67.5°	2327.2	2364.9	2881.7	3933.2	5980.5	11015.3	21124.5	27187.4	26554.0	27042.1	21210.6
70°	1747.7	1794.3	2149.6	2691.5	3646.0	6298.1	16988.6	28260.4	29145.1	29019.5	21996.5
71°	1519.8	1568.2	1937.8	2449.2	3062.9	4860.8	14313.2	27137.2	29234.7	29213.2	21700.5
72.5°	1295.5	1326.0	1614.9	2074.2	2582.0	3407.4	10753.3	24338.1	27987.7	28703.6	20643.6
75°	1017.4	1040.7	1169.9	1582.6	2033.0	2092.2	5770.5	18246.4	22986.9	24350.6	17185.9
77.5°	829.0	845.1	911.5	1175.3	1568.2	1482.1	3027.0	11876.5	14401.2	15773.8	10123.5
80°	658.5	676.4	715.9	796.7	1175.3	1056.8	1444.4	6018.1	6956.6	6942.2	4040.8
82.5°	511.4	516.8	563.4	585.0	803.8	750.0	782.3	2548.0	2822.5	2915.7	1458.8
85°	323.0	339.1	498.8	448.6	480.8	439.6	385.8	1012.0	1247.1	1229.1	583.2
87.5°	98.7	104.1	168.7	190.2	213.5	192.0	141.7	297.9	364.3	394.7	145.3
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°	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7	4006.7
2.5°	4030.0	4010.3	3940.3	3882.9	3829.0	3769.8	3719.6	3705.2	3692.7	3687.3	3685.5
5°	4067.7	4008.5	3870.4	3757.3	3667.6	3585.0	3533.0	3509.6	3486.4	3486.4	3493.5
7.5°	4121.6	4013.9	3800.4	3631.7	3518.6	3441.5	3403.8	3400.3	3405.6	3411.0	3412.8
10°	4180.8	4010.3	3698.1	3488.1	3387.6	3351.8	3353.6	3384.0	3412.8	3434.3	3437.9
12.5°	4238.1	3988.8	3577.8	3353.6	3289.0	3296.1	3346.4	3414.6	3470.2	3500.7	3502.5
15°	4302.7	3954.7	3432.5	3226.2	3204.7	3260.3	3353.6	3457.6	3542.0	3592.2	3597.6
17.5°	4356.6	3897.2	3280.0	3102.4	3129.3	3231.6	3360.7	3495.3	3597.6	3660.4	3671.2
20°	4417.6	3823.7	3122.1	2983.9	3061.1	3199.3	3346.4	3491.7	3597.6	3658.6	3673.0
22.5°	4466.1	3719.6	2971.4	2887.1	3000.1	3159.8	3297.9	3414.6	3500.7	3533.0	3554.5
25°	4485.8	3588.6	2829.6	2808.1	2951.7	3095.2	3188.5	3254.9	3281.8	3278.2	3287.2
27.5°	4475.0	3437.9	2707.6	2745.3	2890.6	2994.7	3041.3	3036.0	2987.5	2942.7	2964.2
30°	4430.1	3258.5	2605.4	2680.7	2811.7	2869.1	2861.9	2791.9	2700.4	2616.1	2621.5
32.5°	4349.4	3064.7	2510.2	2607.2	2700.4	2725.5	2677.1	2585.6	2454.6	2345.2	2329.0
35°	4281.2	2879.9	2425.9	2522.8	2589.2	2576.6	2530.0	2411.6	2293.1	2196.2	2180.1
37.5°	4270.5	2721.9	2345.2	2427.7	2465.4	2447.4	2390.0	2289.6	2246.5	2172.9	2164.0
40°	4327.9	2610.8	2262.6	2327.2	2345.2	2330.8	2268.0	2210.6	2250.1	2232.1	2232.1
42.5°	4484.0	2551.5	2189.0	2226.8	2241.1	2251.8	2207.0	2158.6	2207.0	2124.4	2097.6
45°	4731.6	2553.3	2122.6	2128.0	2171.1	2208.8	2178.3	2106.5	2081.4	1916.3	1884.1
47.5°	5095.8	2614.3	2068.8	2034.8	2111.9	2174.7	2131.6	2027.6	1916.3	1806.9	1787.1
50°	5521.1	2723.7	2020.4	1937.8	2033.0	2131.6	2099.4	1977.3	1862.5	1796.1	1783.5
52.5°	5993.0	2861.9	1961.2	1830.2	1936.0	2111.9	2106.5	1970.2	1812.3	1767.4	1756.7
55°	6576.2	2998.3	1887.7	1704.6	1849.9	2095.8	2086.8	1910.9	1801.5	1769.2	1765.6
57.5°	7254.4	3195.7	1781.7	1577.2	1751.3	2029.4	2009.6	1875.1	1765.6	1742.3	1740.5
60°	8347.2	3502.5	1631.1	1460.6	1650.8	1912.7	1937.8	1814.1	1708.2	1702.8	1701.0
62.5°	9784.4	3933.2	1474.9	1340.3	1534.1	1762.0	1833.8	1731.5	1647.2	1674.1	1677.7
65°	11768.9	4295.6	1313.4	1238.1	1404.9	1616.7	1735.1	1654.3	1579.0	1631.1	1631.1
67.5°	13062.6	4302.7	1166.3	1132.2	1273.9	1494.7	1631.1	1562.9	1491.1	1579.0	1582.6
70°	12793.4	3769.8	1044.3	1021.0	1146.5	1363.7	1516.2	1462.3	1379.8	1458.8	1430.1
71°	12359.3	3473.8	995.8	977.9	1096.4	1300.9	1462.3	1417.5	1334.9	1387.0	1370.9
72.5°	11666.6	3016.3	916.9	920.5	1021.0	1221.9	1387.0	1340.3	1257.8	1286.5	1281.1
75°	9861.6	2634.1	784.1	800.2	877.4	1087.4	1236.3	1200.4	1116.1	1116.1	1110.7
77.5°	6165.3	1841.0	651.3	660.3	744.6	931.2	1062.2	1031.8	951.0	924.1	916.9
80°	2300.3	951.0	509.6	520.4	572.4	733.9	879.2	850.5	768.0	737.4	708.8
82.5°	870.2	477.3	375.0	366.1	421.6	559.8	689.0	654.9	590.3	516.8	495.2
85°	328.4	236.9	229.7	222.5	247.6	331.9	427.0	419.8	351.7	299.7	294.3
87.5°	86.1	77.1	89.7	66.4	70.0	62.8	64.6	26.9	12.5	5.4	3.6
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)