

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: P531388

Luminaire Tested: **GALN-SA6C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531388
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-SA6C-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA 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: 29111 lumens
Efficiency: N/A
Efficacy: 90.7 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): 321
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

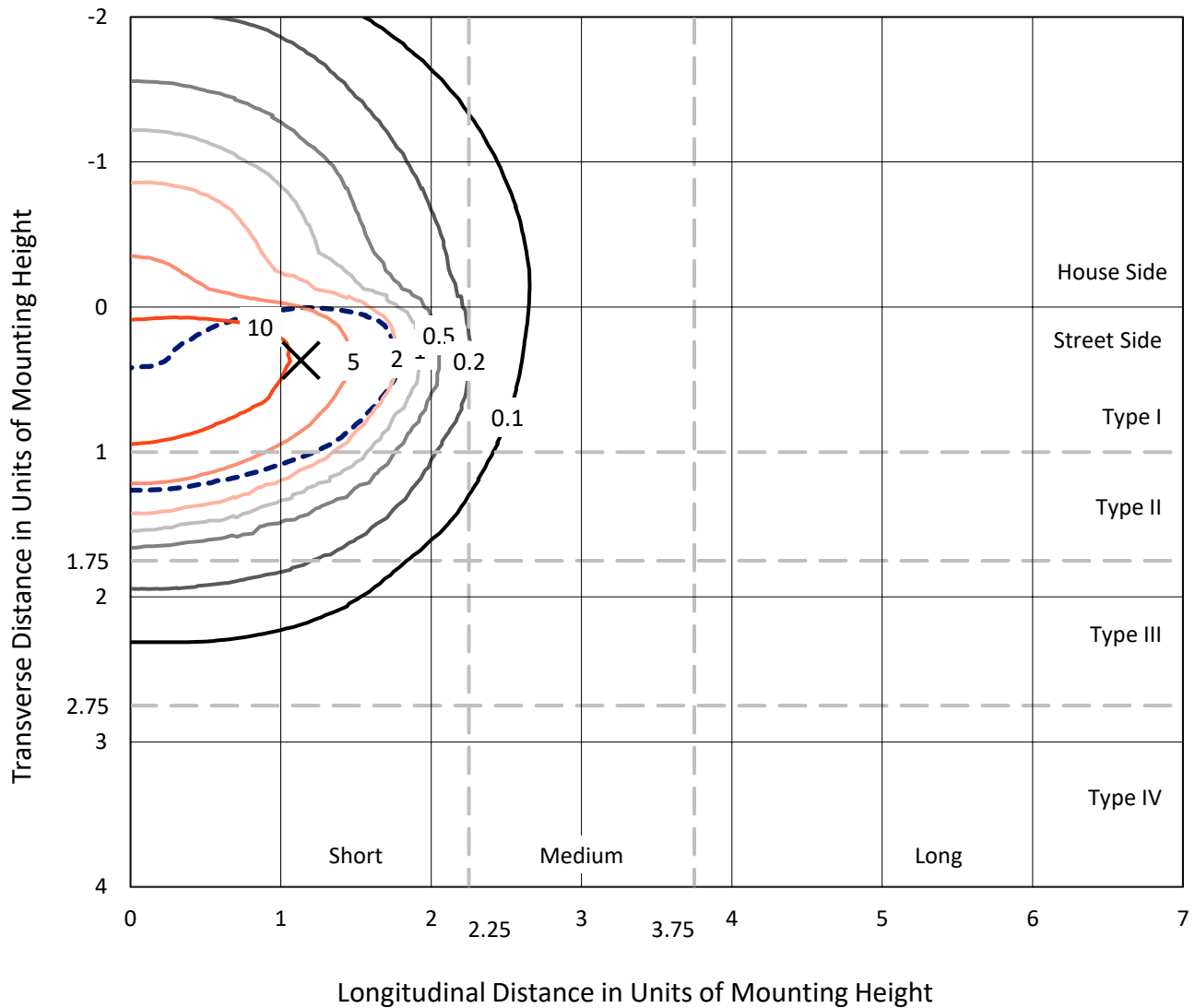


REPORT NUMBER: P531388

CATALOG NUMBER: GALN-SA6C-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

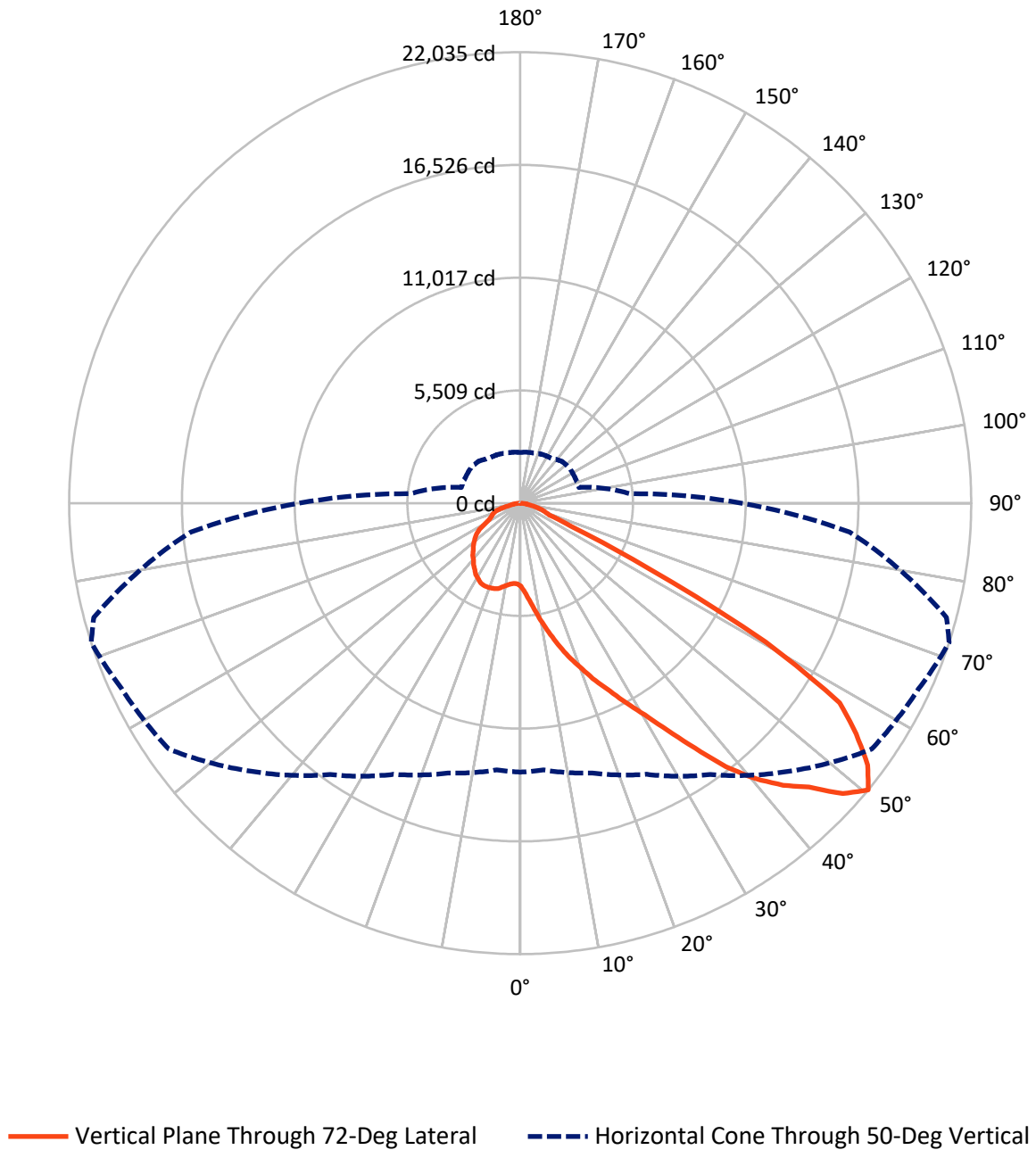
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
Type II - Short - N/A

REPORT NUMBER: P531388
CATALOG NUMBER: GALN-SA6C-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531388

CATALOG NUMBER: GALN-SA6C-830-U-T2R-GRSWH

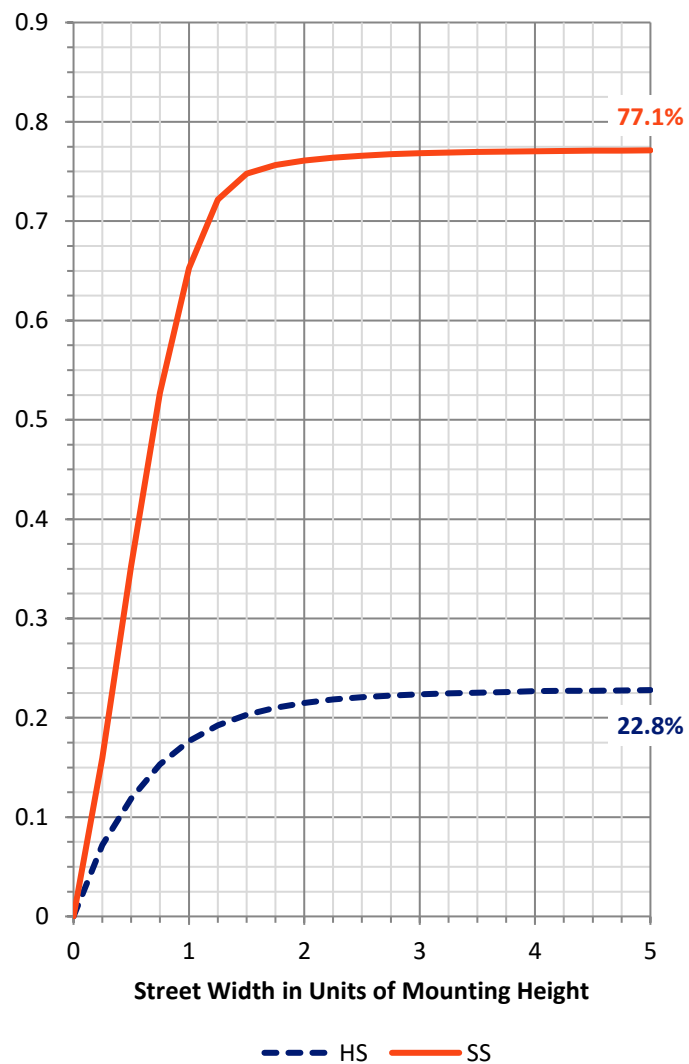
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6669.5	0.0	6669.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22441.5	0.0	22441.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	29111.0	0.0	29111.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.7	1.6
10°-20°	1782.0	6.1
20°-30°	3455.1	11.9
30°-40°	5724.0	19.7
40°-50°	8009.1	27.5
50°-60°	6756.7	23.2
60°-70°	2059.4	7.1
70°-80°	722.5	2.5
80°-90°	125.6	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°	29111.0	100.0
0°-180°	29111.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531388

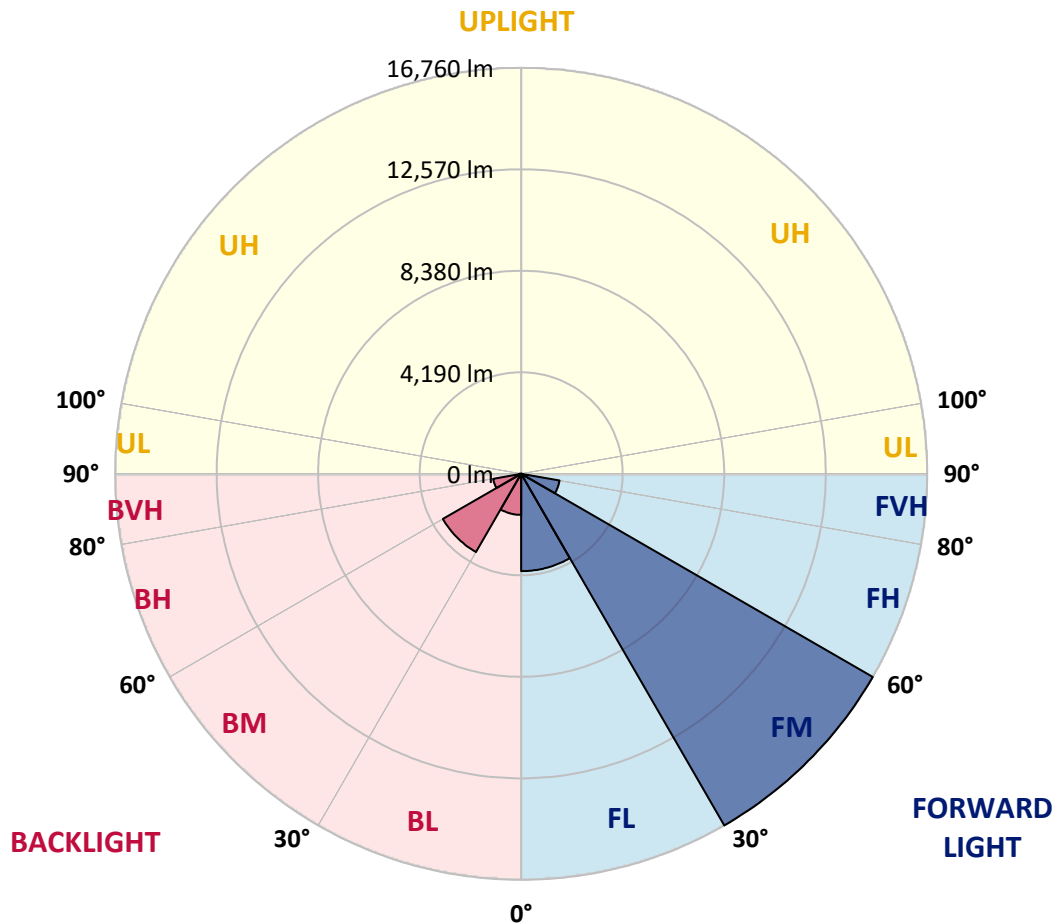
CATALOG NUMBER: GALN-SA6C-830-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4018.4	13.8			
FM	(30°-60°)	16760.0	57.6			
FH	(60°-80°)	1606.9	5.5			G1/1800
FVH	(80°-90°)	56.3	0.2			G1/100
BL	(0°-30°)	1695.4	5.8	B3/2500		
BM	(30°-60°)	3729.7	12.8	B3/5000		
BH	(60°-80°)	1175.0	4.0	B3/2500		G3/2500
BVH	(80°-90°)	69.4	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



REPORT NUMBER: P531388

CATALOG NUMBER: GALN-SA6C-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5
2.5°	5212.4	5180.0	5082.7	5050.3	4935.0	4726.1	4654.1	4441.5	4351.5	4268.6	4171.4
5°	6592.1	6440.8	6430.0	6246.3	5979.7	5824.8	5363.7	5053.9	4769.3	4625.3	4358.7
7.5°	7471.0	7474.6	7474.6	7323.3	7110.8	6718.1	6303.9	5745.5	5316.9	5104.3	4650.5
10°	8306.7	8234.7	8195.1	8180.6	8036.6	7654.7	7211.6	6520.0	5932.9	5684.3	4870.2
12.5°	8897.5	8836.2	8926.3	8879.5	8775.0	8526.5	8108.6	7319.7	6584.9	6249.9	5223.2
15°	9178.5	9221.7	9293.7	9423.4	9376.6	9282.9	8821.8	8141.0	7287.3	6909.1	5536.6
17.5°	9610.7	9491.9	9578.3	9740.4	9870.1	9826.9	9563.9	8735.4	7982.5	7517.8	5958.1
20°	9913.3	9844.9	9888.1	10075.4	10172.7	10417.6	10280.7	9513.5	8648.9	8159.0	6455.2
22.5°	10777.8	10677.0	10536.5	10565.3	10601.3	10774.2	10806.7	10367.2	9423.4	8904.7	6927.1
25°	11844.1	11750.4	11584.7	11415.4	11311.0	11278.6	11390.2	11037.2	10165.5	9628.7	7435.0
27.5°	13018.4	12859.9	12755.5	12406.1	12125.1	12081.9	12027.8	11836.9	11044.4	10464.5	8007.7
30°	14160.3	14034.3	13893.8	13335.4	13043.6	12996.8	12730.3	12784.3	11999.0	11354.2	8656.1
32.5°	15024.9	15035.7	14715.1	14293.6	14019.8	13771.3	13674.0	13828.9	13223.8	12705.0	9380.2
35°	15723.7	15756.1	15449.9	15068.1	14772.7	14945.6	14902.4	14974.4	14686.3	14052.3	10223.1
37.5°	16404.5	16242.4	15914.6	15730.9	15576.0	15860.6	16228.0	16289.2	16343.3	15597.6	11202.9
40°	16516.2	16530.6	16339.7	16469.4	16274.8	16703.5	17557.2	17478.0	17697.7	17045.7	12265.6
42.5°	16357.7	16390.1	16465.8	16649.5	17117.8	17632.9	18900.9	18576.7	18843.2	18263.3	13299.4
45°	16098.3	15965.0	16058.7	16757.5	17568.0	18713.5	20129.2	19877.1	19790.6	19304.3	14531.4
47.5°	14859.2	14996.0	15287.8	16148.8	17366.3	18900.9	21001.0	20943.3	21202.7	20860.5	15651.7
50°	13140.9	13086.9	13648.8	14617.8	16188.4	18533.4	20954.1	21476.4	22034.8	21559.3	16152.4
52.5°	9841.3	10129.4	10612.1	11815.3	14055.9	16530.6	19931.1	20802.8	21256.7	21155.8	15748.9
55°	6221.0	6307.5	6599.3	8029.4	10046.6	13267.0	17085.3	19106.2	19916.7	20294.9	15377.9
57.5°	3022.3	2860.2	3216.8	4365.9	5803.2	8922.7	13176.9	16642.3	18403.8	19088.2	14571.0
60°	1577.8	1639.0	1779.5	2190.2	3000.7	4632.5	8213.1	11091.2	13782.1	14833.9	11044.4
62.5°	1307.6	1329.2	1422.9	1628.2	1995.6	2665.6	4193.0	5406.9	7027.9	7975.3	6282.3
65°	1109.5	1120.3	1221.2	1358.0	1592.2	1876.8	2157.7	2258.6	2734.1	2806.1	2233.4
67.5°	925.8	936.6	1044.6	1174.3	1325.6	1401.3	1473.3	1466.1	1520.1	1498.5	1494.9
70°	713.2	724.0	835.7	972.6	1048.2	1005.0	1228.4	1278.8	1300.4	1318.4	1347.2
72.5°	515.1	536.7	623.2	720.4	680.8	781.7	1012.2	1087.9	1116.7	1127.5	1163.5
75°	374.6	381.8	403.4	374.6	432.3	543.9	713.2	806.9	842.9	853.7	907.8
77.5°	165.7	169.3	172.9	216.1	277.4	338.6	425.1	500.7	551.1	565.5	580.0
80°	86.5	90.1	111.7	147.7	198.1	248.6	309.8	353.0	385.4	389.0	403.4
82.5°	54.0	57.6	79.2	104.5	140.5	183.7	226.9	263.0	288.2	291.8	295.4
85°	25.2	32.4	46.8	64.8	93.7	118.9	122.5	104.5	111.7	115.3	108.1
87.5°	7.2	10.8	14.4	10.8	14.4	14.4	18.0	21.6	21.6	21.6	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P531388

CATALOG NUMBER: GALN-SA6C-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5	4052.5
2.5°	4117.3	4084.9	3958.8	3912.0	3789.5	3811.2	3746.3	3742.7	3728.3	3724.7	3721.1
5°	4218.2	4117.3	3966.0	3850.8	3782.3	3775.1	3728.3	3728.3	3742.7	3753.5	3728.3
7.5°	4383.9	4268.6	4012.9	3904.8	3843.6	3832.8	3800.3	3775.1	3807.5	3796.7	3767.9
10°	4574.8	4373.1	4102.9	4009.3	3908.4	3883.2	3883.2	3894.0	3840.0	3858.0	3829.2
12.5°	4787.4	4517.2	4218.2	4110.1	3991.3	3976.9	3969.6	3890.4	3919.2	3904.8	3832.8
15°	5057.5	4682.9	4365.9	4182.2	4081.3	4016.5	3922.8	3908.4	3890.4	3854.4	3822.0
17.5°	5349.3	4863.0	4434.3	4203.8	4052.5	4005.7	3933.6	3858.0	3803.9	3811.2	3785.9
20°	5597.9	5028.7	4459.6	4225.4	4030.9	3940.8	3829.2	3782.3	3724.7	3721.1	3717.5
22.5°	5893.2	5252.0	4495.6	4167.8	3966.0	3872.4	3796.7	3713.9	3674.3	3623.8	3649.1
25°	6246.3	5338.5	4502.8	4135.4	3919.2	3753.5	3713.9	3623.8	3609.4	3537.4	3551.8
27.5°	6502.0	5385.3	4445.1	4034.5	3811.2	3685.1	3613.0	3548.2	3523.0	3468.9	3454.5
30°	6844.2	5457.4	4322.7	3908.4	3703.1	3562.6	3519.4	3505.0	3432.9	3375.3	3368.1
32.5°	7233.3	5504.2	4243.4	3778.7	3591.4	3483.3	3505.0	3436.5	3346.5	3296.0	3281.6
35°	7543.1	5522.2	4045.3	3631.0	3515.8	3447.3	3422.1	3407.7	3278.0	3231.2	3195.2
37.5°	8014.9	5482.6	3879.6	3526.6	3432.9	3407.7	3386.1	3288.8	3141.1	3072.7	3022.3
40°	8566.1	5471.8	3667.1	3378.9	3353.7	3382.5	3317.6	3166.4	2961.0	2885.4	2849.4
42.5°	9095.6	5547.4	3533.8	3299.6	3267.2	3278.0	3188.0	2961.0	2860.2	2816.9	2759.3
45°	9981.8	5705.9	3314.0	3177.2	3162.8	3155.5	3047.5	2809.7	2752.1	2698.1	2687.3
47.5°	10781.4	5601.5	3173.6	3051.1	3065.5	3025.9	2795.3	2719.7	2654.8	2600.8	2582.8
50°	10828.3	5352.9	2975.4	2953.8	2957.4	2889.0	2669.2	2618.8	2536.0	2499.9	2474.7
52.5°	10583.3	4945.9	2791.7	2798.9	2809.7	2698.1	2514.4	2478.3	2409.9	2359.5	2345.0
55°	9895.3	4311.9	2611.6	2640.4	2669.2	2456.7	2399.1	2309.0	2255.0	2182.9	2186.5
57.5°	8717.4	3472.5	2359.5	2406.3	2467.5	2233.4	2190.2	2078.5	1999.2	1941.6	1934.4
60°	5842.8	2471.1	1981.2	1999.2	2136.1	2042.5	2038.9	1927.2	1819.1	1768.7	1739.9
62.5°	3447.3	1887.6	1711.1	1693.0	1689.4	1743.5	1833.5	1793.9	1653.4	1556.2	1585.0
65°	1804.7	1631.8	1592.2	1530.9	1494.9	1480.5	1549.0	1567.0	1473.3	1368.8	1361.6
67.5°	1516.5	1516.5	1484.1	1462.5	1412.1	1350.8	1307.6	1250.0	1235.6	1206.7	1170.7
70°	1379.7	1415.7	1404.9	1354.4	1311.2	1242.8	1131.1	1037.4	947.4	915.0	936.6
72.5°	1203.1	1239.2	1239.2	1213.9	1156.3	1051.8	943.8	835.7	760.1	702.4	695.2
75°	925.8	943.8	987.0	958.2	882.5	817.7	706.0	594.4	522.3	468.3	457.5
77.5°	590.8	619.6	619.6	616.0	561.9	500.7	428.7	349.4	295.4	255.8	245.0
80°	392.6	410.7	425.1	410.7	374.6	327.8	273.8	219.7	180.1	147.7	140.5
82.5°	288.2	309.8	320.6	306.2	270.2	234.1	194.5	154.9	115.3	90.1	82.9
85°	111.7	115.3	129.7	154.9	151.3	147.7	118.9	86.5	64.8	46.8	43.2
87.5°	28.8	25.2	28.8	28.8	25.2	21.6	21.6	21.6	21.6	10.8	14.4
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)