

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: P651480

Luminaire Tested: **GALN-SA6D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651480
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33677.8 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

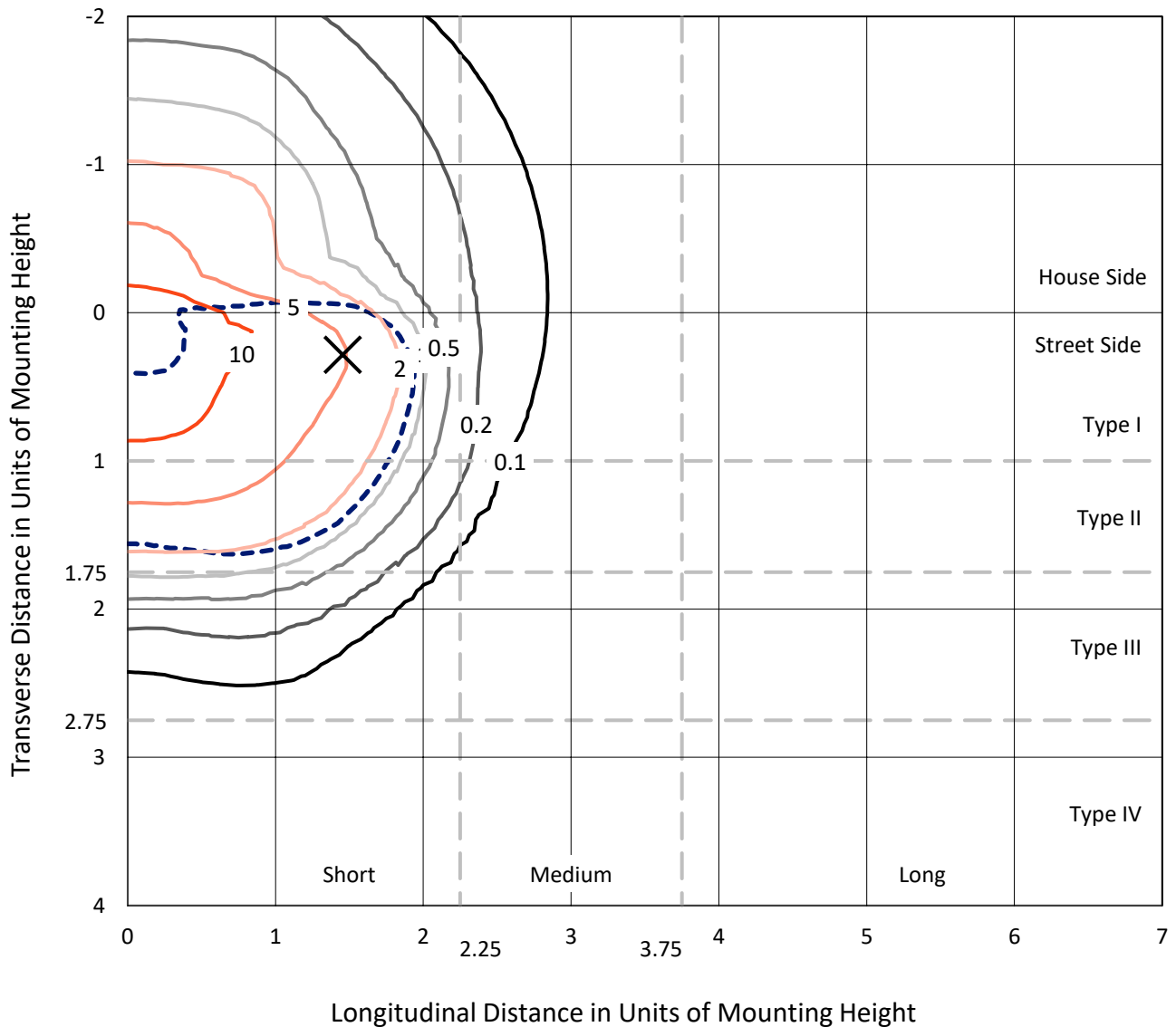
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

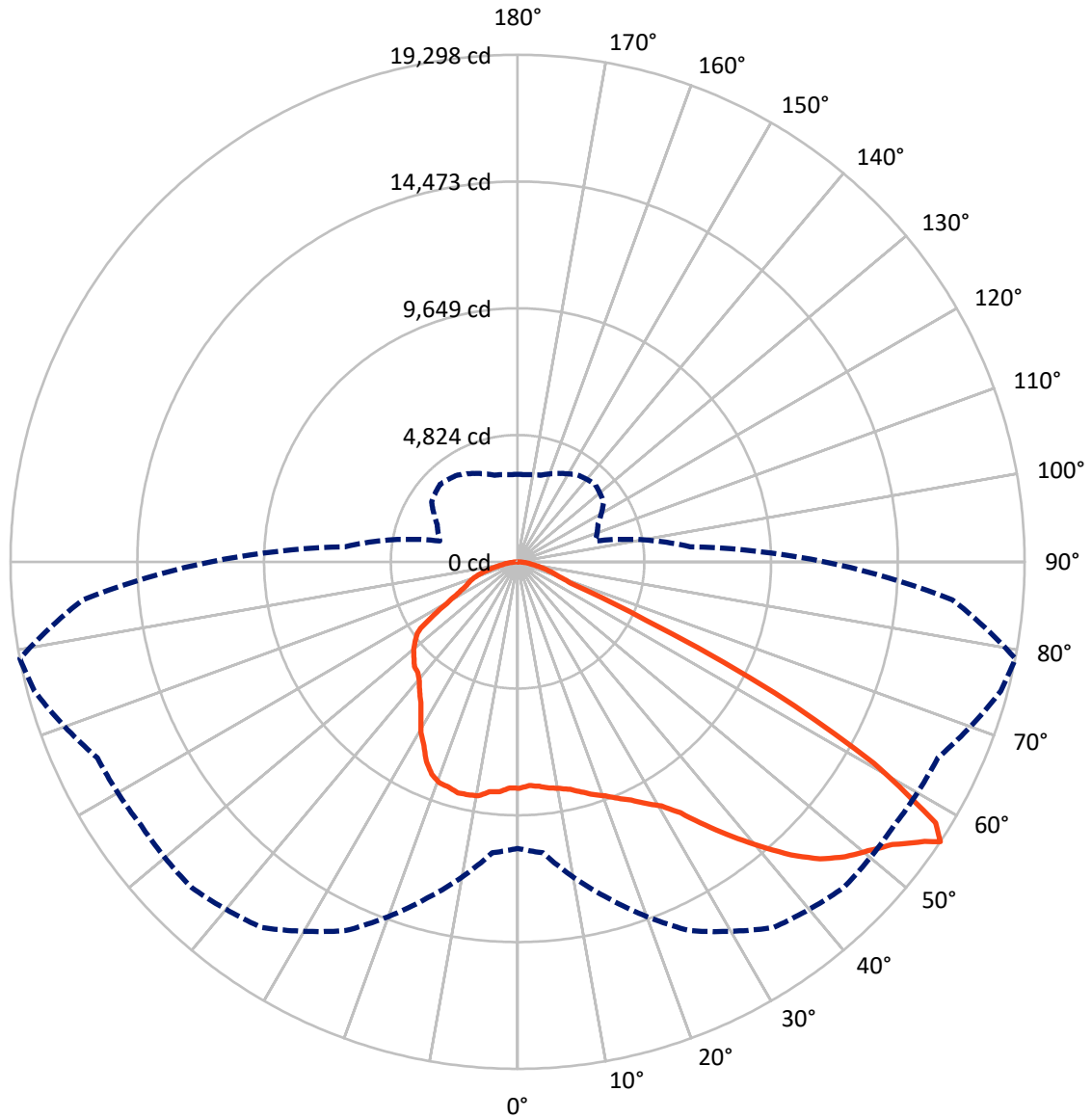
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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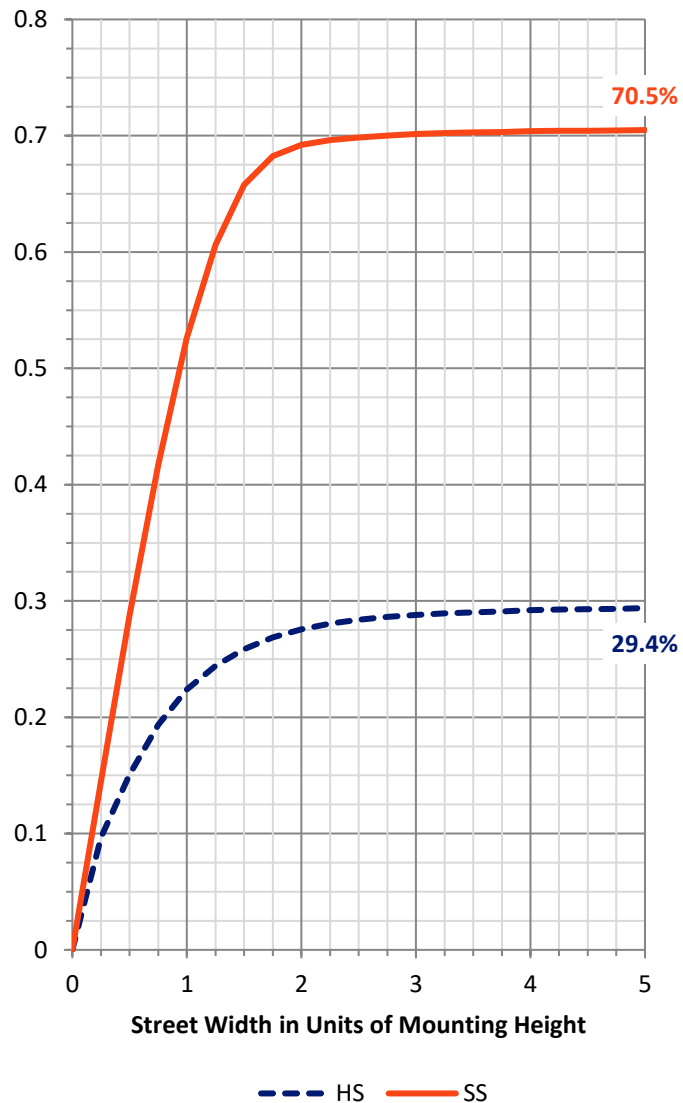
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9945.8	0.0	9945.8
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23732.0	0.0	23732.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	33677.8	0.0	33677.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.4	2.3
10°-20°	2144.0	6.4
20°-30°	3668.0	10.9
30°-40°	5621.7	16.7
40°-50°	7597.7	22.6
50°-60°	8726.3	25.9
60°-70°	3977.7	11.8
70°-80°	980.7	2.9
80°-90°	178.2	0.5
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°	33677.8	100.0
0°-180°	33677.8	100.0

Coefficient of Utilization



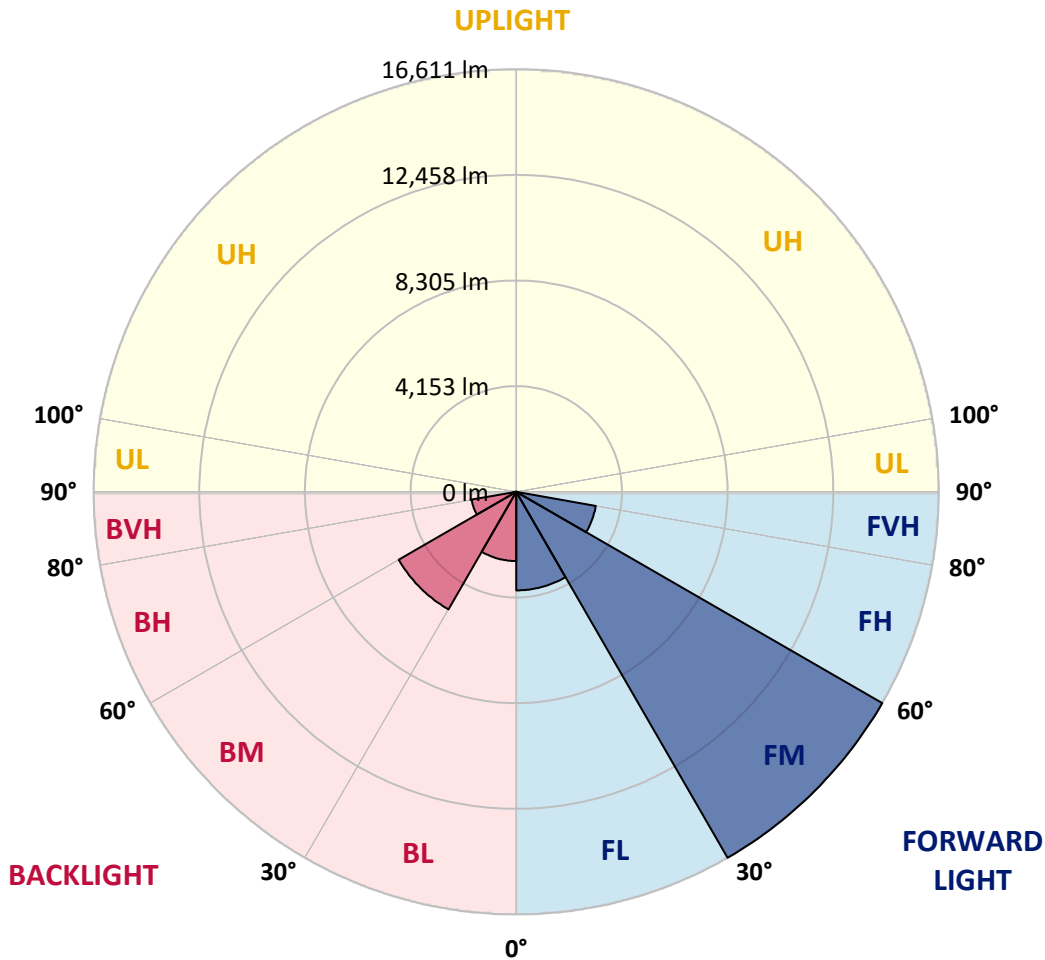
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3874.9	11.5			
FM (30°-60°)	16610.9	49.3			
FH (60°-80°)	3175.1	9.4			G2/5000
FVH (80°-90°)	71.2	0.2			G1/100
BL (0°-30°)	2720.6	8.1	B4/5000		
BM (30°-60°)	5334.8	15.8	B4/8500		
BH (60°-80°)	1783.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	107.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8
2.5°	8197.3	8176.4	8226.7	8264.4	8310.6	8369.3	8398.6	8415.5	8562.3	8524.5	8637.8
5°	8021.1	7966.5	8004.3	8033.7	8113.4	8184.7	8264.4	8390.3	8524.5	8583.2	8721.7
7.5°	7865.9	7836.5	7828.1	7849.1	7958.2	8050.5	8188.9	8373.5	8591.7	8688.1	8767.8
10°	7610.0	7568.1	7631.0	7769.4	7798.8	7991.8	8151.1	8415.5	8604.3	8772.1	9006.9
12.5°	7496.8	7454.8	7467.3	7547.0	7752.6	7937.2	8126.0	8423.9	8822.4	8889.5	9204.2
15°	7677.2	7635.2	7647.7	7626.8	7823.9	7920.5	8218.3	8591.7	8973.4	9086.7	9422.3
17.5°	8088.2	8092.4	8037.9	7991.8	7945.6	8151.1	8356.8	8692.3	9032.2	9317.4	9569.2
20°	8872.7	8734.3	8625.2	8365.1	8293.8	8381.9	8642.0	8965.1	9271.3	9506.2	9791.4
22.5°	9476.8	9489.4	9334.2	8906.3	8751.1	8788.8	9011.1	9275.5	9611.1	9778.9	10106.1
25°	10353.6	10265.5	10097.7	9757.9	9409.7	9439.0	9602.7	9841.8	9934.1	10051.5	10408.1
27.5°	11154.9	11180.1	10848.6	10529.8	10097.7	10013.8	10307.5	10349.4	10194.2	10416.5	10538.2
30°	11968.8	11947.8	11729.6	11356.3	10932.6	10949.3	11079.4	10873.8	10659.8	10781.5	10865.4
32.5°	12812.0	12572.9	12564.5	12228.8	11905.8	11750.6	11591.2	11691.8	11360.5	11385.6	11305.9
35°	13487.4	13520.9	13328.0	13088.8	12929.4	12656.7	12220.5	12400.9	12337.9	12308.5	11964.6
37.5°	13978.3	13848.2	13944.6	13865.0	13713.9	13374.1	12921.0	13093.0	13122.4	13265.0	12866.5
40°	14380.9	14326.4	14582.4	14624.2	14519.4	13785.3	12971.4	13483.2	13923.7	14234.1	13760.1
42.5°	14573.9	14691.4	14959.9	15282.9	15048.0	14263.5	13231.5	13781.0	14762.7	15253.6	14607.5
45°	14834.1	14683.0	15081.6	15673.0	15677.2	14666.2	13483.2	14183.8	15417.1	16130.3	15186.4
47.5°	14569.7	14645.3	15056.3	15807.3	16000.3	15089.9	14162.8	14754.3	16138.7	16772.1	15723.4
50°	13978.3	14129.2	14880.1	15660.5	16243.6	15538.8	14943.1	15371.0	16805.8	17288.2	15811.5
52.5°	13361.6	13445.4	14620.1	15773.7	16352.7	16117.8	15987.7	16222.6	17619.6	17871.3	15920.6
55°	11683.5	12082.1	13760.1	15723.4	16885.4	17162.4	17061.6	17405.7	18542.5	18794.2	16516.3
56°	10907.3	11117.1	13244.1	15488.4	16990.3	17544.1	17493.7	17649.0	19033.3	19297.7	16608.6
57.5°	9472.6	9489.4	11293.4	14448.0	16596.0	17657.4	17607.0	17728.7	18936.9	18756.5	15798.9
60°	5927.7	6187.8	7685.5	11113.0	14112.5	16382.0	16667.3	15689.9	15966.7	15585.0	12291.8
62.5°	3070.8	3033.1	4027.4	6498.2	9367.7	11729.6	11993.9	11947.8	11519.8	10961.9	8029.5
65°	1531.2	1539.6	2105.9	3217.7	4799.3	6141.7	6880.1	6959.8	5822.8	5357.2	3809.2
67.5°	1111.7	1153.7	1514.5	1967.5	2261.2	2529.6	3100.2	3041.5	2303.2	2189.9	2030.4
70°	864.2	902.0	1229.2	1501.9	1363.4	1363.4	1485.1	1535.4	1640.3	1686.5	1741.0
72.5°	629.2	658.7	939.7	1036.2	893.6	960.7	1111.7	1229.2	1338.3	1355.0	1417.9
75°	432.1	457.3	616.7	570.5	537.0	662.8	813.8	922.9	1002.6	1044.6	1082.4
77.5°	281.1	289.5	352.4	297.9	344.0	427.9	528.6	620.9	700.6	734.1	742.5
80°	125.8	138.4	151.0	188.8	239.1	306.2	377.5	453.0	503.4	516.0	541.2
82.5°	71.3	71.3	92.3	134.2	176.2	222.4	272.7	327.2	385.9	398.5	394.3
85°	37.8	37.8	54.5	79.7	109.1	130.0	125.8	130.0	138.4	159.5	155.2
87.5°	12.6	12.6	16.8	16.8	20.9	25.1	20.9	29.4	37.8	37.8	37.8
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°	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8	8616.8
2.5°	8604.3	8642.0	8591.7	8700.7	8700.7	8679.8	8574.8	8608.5	8633.6	8633.6	8654.6
5°	8767.8	8755.2	8788.8	8658.8	8579.0	8549.7	8377.7	8293.8	8222.5	8218.3	8155.3
7.5°	8860.2	8826.5	8814.0	8717.5	8365.1	8151.1	7782.0	7568.1	7521.9	7358.2	7421.2
10°	9006.9	9069.9	9006.9	8482.6	7991.8	7500.9	7140.2	6808.7	6678.6	6573.8	6510.9
12.5°	9309.0	9279.7	8914.7	8205.7	7517.7	6934.5	6397.6	6049.4	5919.4	5827.0	5818.6
15°	9564.9	9418.1	8860.2	7769.4	6779.4	6158.5	5718.0	5470.5	5411.8	5420.2	5457.9
17.5°	9653.0	9552.3	8574.8	7316.4	6229.8	5499.8	5294.3	5256.5	5311.1	5374.0	5390.7
20°	9791.4	9632.1	8457.4	6699.7	5550.2	5088.7	5076.1	5210.3	5311.1	5403.3	5416.0
22.5°	10080.9	9678.2	8075.6	6116.5	5084.5	4967.0	5088.7	5202.0	5357.2	5432.7	5365.6
25°	10164.8	9577.5	7538.6	5416.0	4790.8	4891.5	5021.6	5176.8	5285.9	5327.8	5357.2
27.5°	10236.1	9422.3	6812.9	4950.3	4698.6	4887.3	5021.6	5151.6	5210.3	5248.1	5281.6
30°	10437.5	9376.1	6183.6	4639.8	4639.8	4803.5	4975.4	5009.0	5088.7	5134.9	5193.6
32.5°	10538.2	9057.3	5537.6	4442.7	4581.1	4845.4	4858.0	4920.9	4925.1	4962.8	4899.9
35°	10802.5	8830.8	4937.7	4300.0	4606.2	4803.5	4866.4	4828.6	4623.1	4522.4	4543.3
37.5°	10995.5	8717.5	4505.6	4283.2	4610.4	4849.6	4883.2	4597.9	4384.0	4216.1	4258.1
40°	11515.6	8436.4	4178.3	4253.9	4648.2	4899.9	4807.7	4497.2	4111.2	3939.2	3909.9
42.5°	11914.2	8235.1	3972.8	4220.3	4677.6	4971.2	4769.9	4295.8	3901.5	3742.0	3784.0
45°	12375.7	8188.9	3863.7	4228.7	4727.9	5009.0	4723.7	4140.6	3721.1	3658.2	3645.6
47.5°	12539.3	7857.5	3746.2	4157.4	4715.3	4996.4	4568.5	4023.2	3654.0	3662.4	3695.9
50°	12266.6	7517.7	3658.2	4010.6	4631.5	4883.2	4325.2	3867.9	3616.2	3721.1	3779.8
52.5°	11918.4	7169.5	3477.8	3813.3	4459.4	4707.0	4211.9	3859.5	3578.5	3544.9	3557.5
55°	12023.3	6884.3	3226.1	3544.9	4182.5	4379.8	4086.1	3779.8	3486.2	3360.3	3402.3
56°	11683.5	6590.6	3062.4	3377.1	3993.7	4170.0	4023.2	3708.5	3410.7	3326.7	3326.7
57.5°	10722.8	5604.7	2848.5	3108.6	3595.3	3805.0	3901.5	3666.6	3326.7	3179.9	3184.1
60°	7907.8	3985.4	2554.9	2739.4	2978.6	3146.3	3595.3	3549.1	3117.0	3016.3	2978.6
62.5°	4874.8	2911.5	2345.0	2416.4	2538.1	2676.5	3137.9	3213.5	2894.6	2785.6	2760.4
65°	2731.1	2227.6	2185.7	2215.0	2273.7	2345.0	2605.2	2773.0	2554.9	2387.0	2378.7
67.5°	1996.9	1992.7	2026.2	2051.5	2076.6	2076.6	2139.5	2206.6	2177.3	2043.0	2030.4
70°	1774.5	1787.1	1812.3	1816.5	1824.9	1795.5	1745.2	1724.2	1757.8	1673.8	1657.1
72.5°	1464.1	1506.1	1535.4	1539.6	1493.4	1455.7	1388.6	1317.3	1292.1	1275.3	1271.1
75°	1124.3	1153.7	1166.2	1162.1	1145.3	1090.8	1011.1	939.7	893.6	843.2	868.4
77.5°	759.3	801.3	822.2	822.2	797.1	713.2	675.4	620.9	574.7	520.2	528.6
80°	532.8	562.1	595.7	591.5	549.6	507.6	453.0	402.8	365.0	323.0	318.8
82.5°	398.5	415.3	432.1	423.7	394.3	352.4	314.6	268.5	226.6	197.1	197.1
85°	142.6	155.2	188.8	197.1	214.0	214.0	180.4	151.0	121.7	100.7	100.7
87.5°	42.0	42.0	46.2	46.2	42.0	46.2	37.8	42.0	46.2	29.4	29.4
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)