

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: P651153

Luminaire Tested: **GALN-SA9C-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53153.7 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

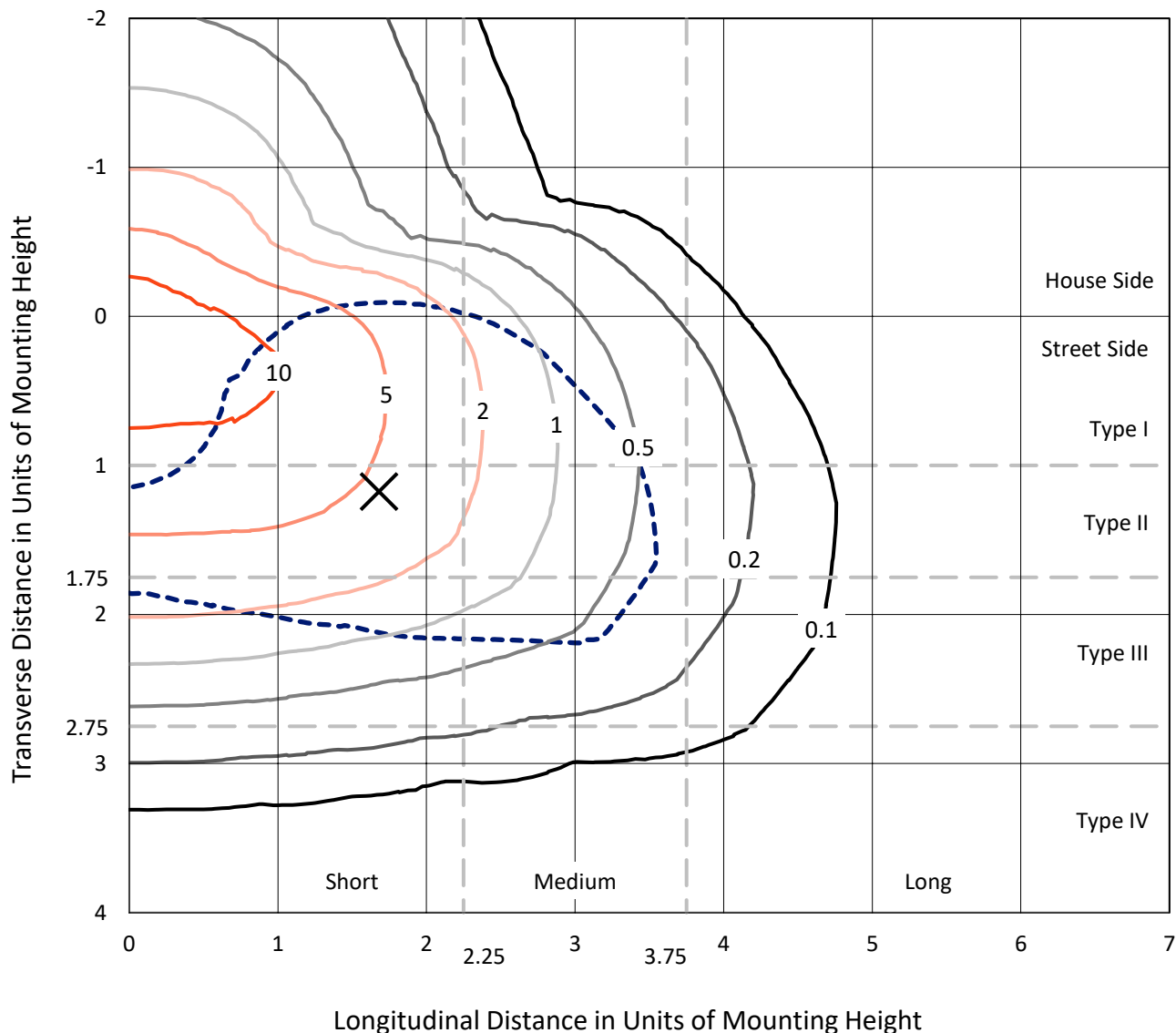
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

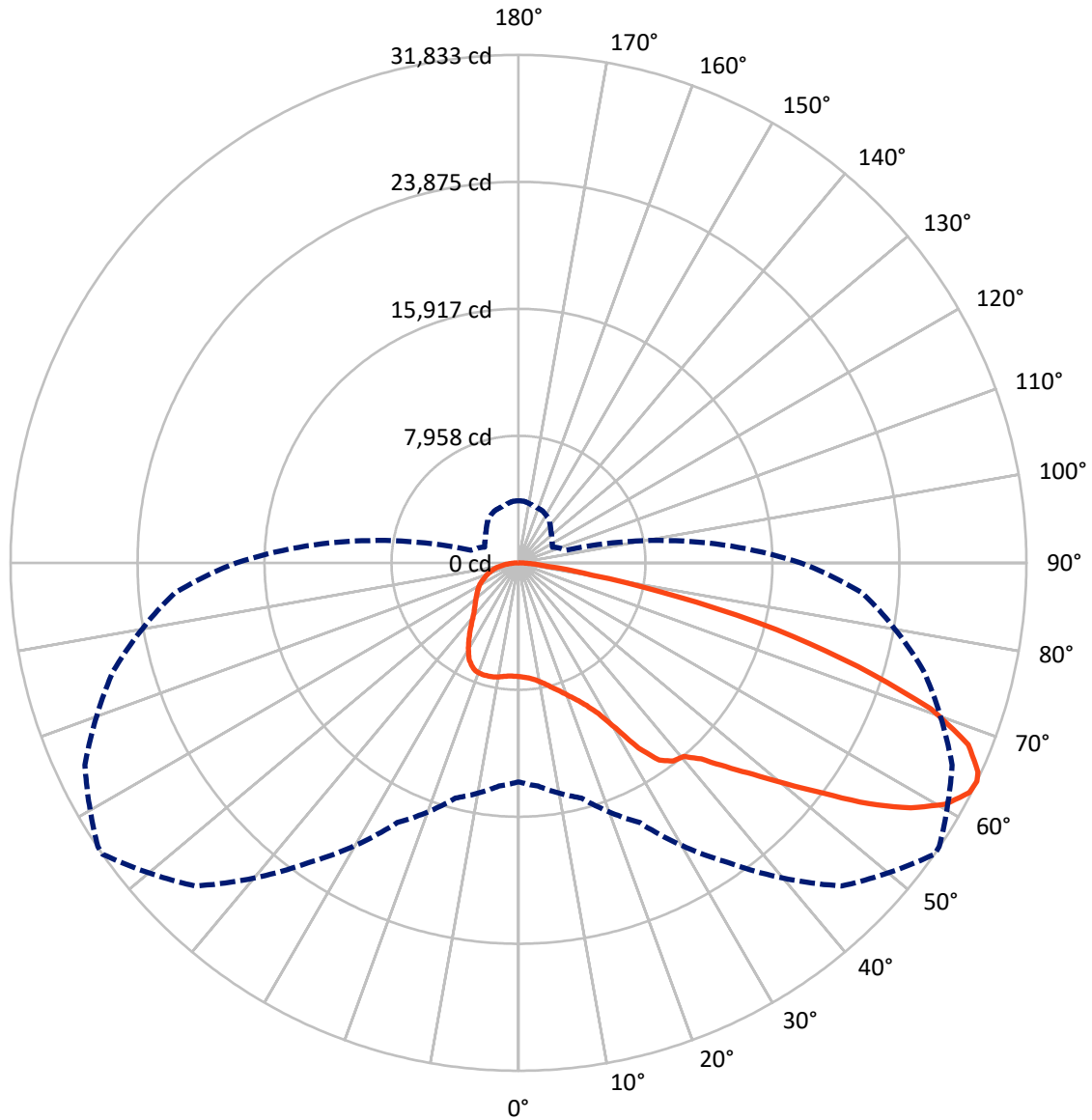
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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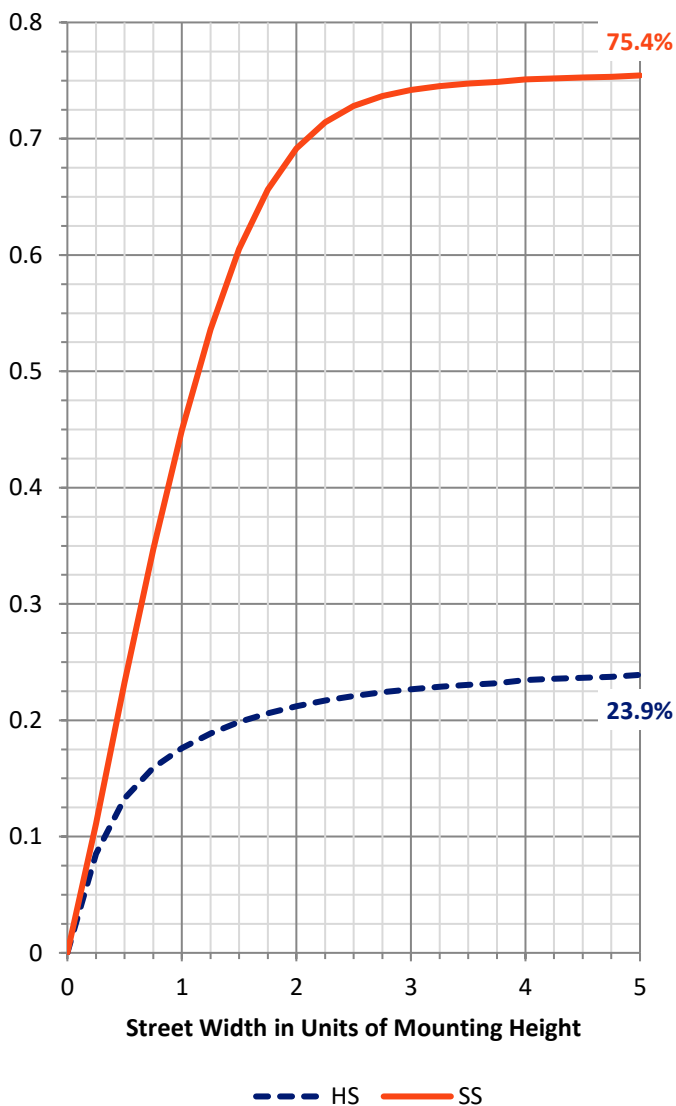
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12912.1	0.0	12912.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	40241.6	0.0	40241.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	53153.7	0.0	53153.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	693.7	1.3
10°-20°	2188.9	4.1
20°-30°	3896.8	7.3
30°-40°	5995.6	11.3
40°-50°	8499.3	16.0
50°-60°	12302.5	23.1
60°-70°	12731.8	24.0
70°-80°	5962.3	11.2
80°-90°	882.7	1.7
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°	53153.7	100.0
0°-180°	53153.7	100.0

Coefficient of Utilization

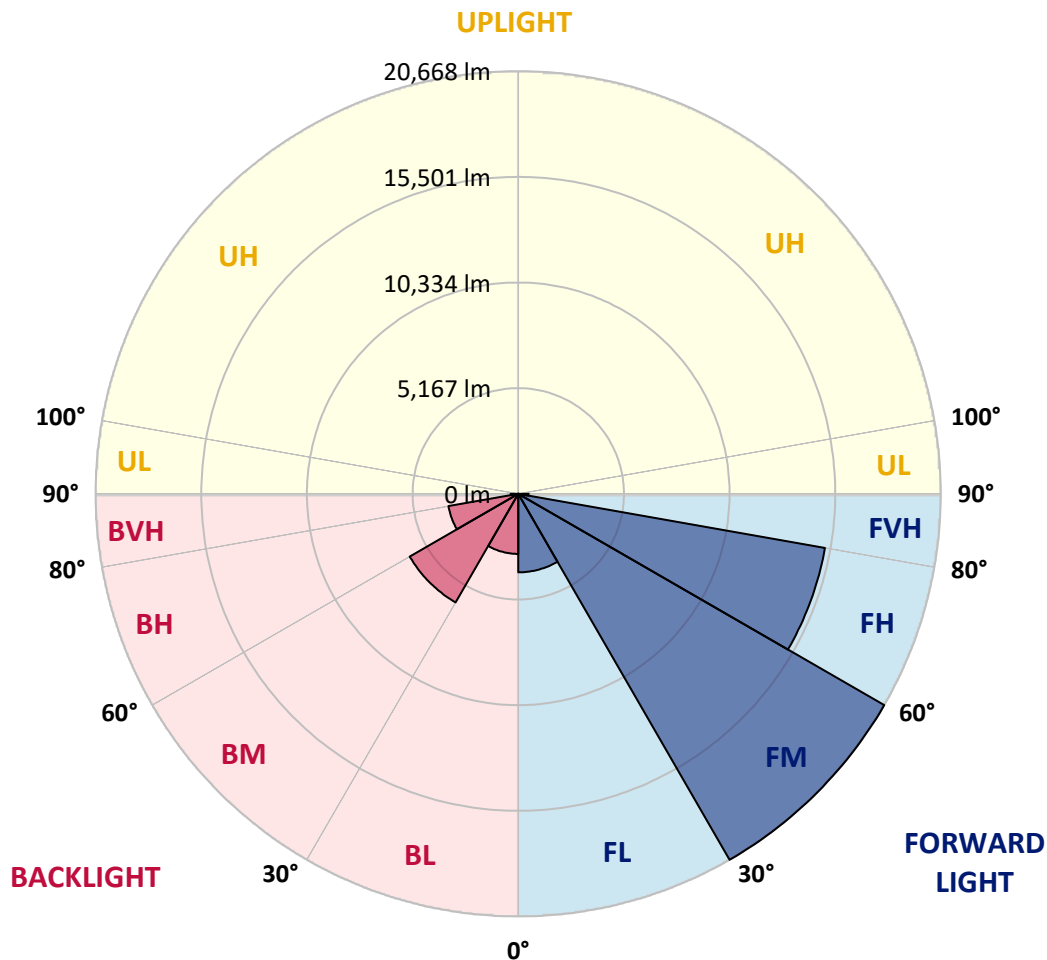


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3838.5	7.2			
FM (30°-60°)	20667.6	38.9			
FH (60°-80°)	15230.1	28.7			G5
FVH (80°-90°)	505.4	1.0			G4/750
BL (0°-30°)	2940.9	5.5	B4/5000		
BM (30°-60°)	6129.9	11.5	B4/8500		
BH (60°-80°)	3464.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	377.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6
2.5°	7211.7	7208.6	7217.5	7208.6	7214.6	7193.8	7184.9	7190.9	7182.0	7167.2	7140.5
5°	7300.5	7297.5	7300.5	7288.7	7294.6	7282.7	7262.0	7267.9	7253.1	7220.5	7182.0
7.5°	7451.6	7439.7	7439.7	7436.8	7424.9	7407.2	7392.4	7386.4	7371.6	7330.2	7270.9
10°	7647.1	7647.1	7650.2	7626.4	7641.2	7608.6	7593.8	7590.9	7540.5	7487.2	7404.2
12.5°	7904.9	7919.8	7910.9	7899.0	7893.1	7881.3	7830.9	7842.7	7786.4	7694.6	7593.8
15°	8224.9	8248.6	8233.8	8227.9	8213.0	8168.6	8147.9	8139.0	8064.9	7931.6	7798.3
17.5°	8648.6	8619.0	8607.1	8592.3	8530.1	8497.5	8462.0	8456.0	8390.8	8233.8	8026.4
20°	9019.0	9060.4	9036.7	9021.9	8959.7	8897.5	8870.9	8862.0	8805.6	8633.8	8301.9
22.5°	9460.4	9469.3	9478.2	9442.7	9413.1	9365.6	9318.2	9303.4	9282.7	9104.9	8699.0
25°	9931.5	9967.1	9937.4	9901.9	9866.4	9863.4	9907.8	9901.9	9893.0	9721.2	9226.4
27.5°	10698.9	10731.5	10740.4	10701.9	10565.6	10577.4	10678.2	10710.8	10847.0	10562.6	9904.9
30°	11131.5	11164.1	11238.2	11383.4	11599.7	11789.2	12032.2	12106.3	12236.6	11700.3	10710.8
32.5°	11398.2	11410.0	11543.3	11812.9	12461.9	13170.0	13830.7	13857.3	13940.3	13187.7	11448.5
35°	11818.9	11827.7	11934.5	12230.7	12992.2	14171.4	15193.6	15226.2	15158.0	13649.9	11792.2
37.5°	12337.4	12361.1	12429.2	12675.1	13584.8	15009.9	15759.5	15735.8	15131.4	14017.4	12399.6
40°	13092.9	13092.9	13013.0	13344.7	14210.0	15489.9	15958.0	15916.5	15756.6	15081.0	13324.0
42.5°	13759.6	13747.7	13937.3	14162.5	14992.1	16230.6	16790.6	16858.7	17122.4	16417.2	14375.8
45°	14627.7	14681.0	14787.6	15196.5	16322.5	17495.7	18218.7	18283.8	18657.2	17990.5	15605.4
47.5°	15504.7	15522.5	15857.3	16402.4	17969.8	19211.2	19803.8	19910.5	20251.2	19830.4	16929.8
50°	16126.9	16295.8	16832.0	17691.3	19667.5	21303.0	21765.2	21892.7	22494.1	21833.4	18473.5
52.5°	16784.7	16950.6	17605.3	18914.9	21617.1	23442.2	24011.1	24097.0	24722.2	23860.0	20052.7
55°	17347.6	17501.6	18245.3	19999.4	23169.6	25625.9	26656.9	26556.2	26855.5	25421.4	21270.4
57.5°	17439.5	17563.9	18500.1	20692.6	24337.0	27498.3	28976.8	29036.1	28689.5	26588.8	22274.8
60°	16728.3	16983.2	18058.7	20618.6	24861.5	28802.1	30707.2	30748.6	29765.0	27187.3	22674.9
62.5°	15469.1	15442.4	16743.1	19427.5	24126.6	29098.3	31726.4	31682.0	30185.7	26899.9	22286.7
64°	13729.9	14049.9	15264.7	17963.8	22941.5	28642.0	31833.0	31809.4	29984.3	26301.3	21626.0
65°	12669.2	12651.4	13851.4	16766.8	21762.3	27954.7	31643.5	31610.8	29563.5	25765.1	21113.4
67.5°	9146.4	9187.8	10373.0	12938.9	17691.3	25267.3	30408.0	30286.4	27904.3	23987.4	19163.9
70°	5540.6	5564.3	6494.6	8583.4	12698.8	20426.0	27409.5	27415.4	25365.1	21332.6	16310.6
72.5°	2918.4	2980.7	3354.0	4873.9	7712.3	14331.4	22236.3	22763.7	21777.1	18206.8	12885.5
75°	1623.6	1632.5	1896.2	2402.9	3934.7	8020.4	16713.5	16864.7	17240.9	14654.3	9528.6
77.5°	1238.5	1256.3	1339.2	1552.6	2142.2	3718.4	10115.2	10873.7	12150.7	10331.5	5436.9
80°	1004.4	1022.2	1093.3	1220.7	1425.2	1762.9	4699.1	5108.0	6503.5	4586.6	2121.4
82.5°	782.2	770.4	862.2	945.1	1037.0	1042.9	1928.8	2133.3	2648.8	1973.2	918.5
85°	580.7	580.7	654.8	637.1	669.6	610.3	850.3	939.2	1060.7	838.5	426.6
87.5°	231.1	254.8	429.6	385.2	299.2	240.0	314.0	331.9	367.4	328.9	177.8
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°	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6	7131.6
2.5°	7143.5	7152.4	7131.6	7116.8	7110.9	7102.0	7093.1	7096.1	7108.0	7119.7	7116.8
5°	7179.0	7182.0	7146.5	7128.7	7116.8	7104.9	7104.9	7113.9	7137.6	7155.3	7155.3
7.5°	7267.9	7267.9	7217.5	7184.9	7167.2	7146.5	7140.5	7143.5	7161.3	7184.9	7187.9
10°	7407.2	7395.3	7330.2	7279.8	7247.1	7196.8	7152.4	7128.7	7137.6	7152.4	7152.4
12.5°	7576.1	7543.4	7460.5	7392.4	7312.3	7217.5	7125.7	7078.3	7075.3	7090.1	7084.2
15°	7756.8	7721.2	7605.7	7481.3	7342.0	7202.7	7093.1	7025.0	6971.6	6956.8	6989.4
17.5°	7967.1	7893.1	7733.1	7561.3	7353.9	7173.1	7001.2	6862.0	6767.2	6740.5	6749.4
20°	8222.0	8124.2	7907.9	7638.3	7345.0	7066.4	6799.8	6613.1	6459.0	6411.6	6417.6
22.5°	8574.6	8405.6	8088.7	7676.8	7270.9	6865.0	6494.6	6251.7	6065.0	5990.9	6035.4
25°	8974.6	8790.8	8260.5	7667.9	7078.3	6542.1	6133.2	5816.1	5647.2	5537.6	5561.3
27.5°	9525.6	9199.7	8444.1	7587.9	6802.8	6148.0	5673.9	5374.7	5220.6	5164.2	5190.9
30°	10230.8	9730.0	8642.7	7371.6	6367.2	5650.2	5211.7	5016.1	4924.3	4853.2	4876.9
32.5°	10740.4	10103.4	8687.1	7007.2	5896.1	5196.9	4897.6	4752.4	4651.7	4583.5	4598.3
35°	11104.8	10420.4	8666.4	6559.8	5404.3	4823.6	4648.7	4530.2	4367.2	4219.1	4192.5
37.5°	11593.7	10817.4	8515.3	6070.9	4918.3	4571.7	4447.3	4228.0	3993.9	3795.4	3786.5
40°	12343.3	11282.6	8192.3	5496.1	4503.6	4385.1	4233.9	3949.5	3697.6	3537.7	3525.8
42.5°	13116.7	11712.2	7753.9	4891.7	4162.9	4189.5	4005.8	3724.3	3570.3	3466.5	3454.7
45°	14061.8	12177.4	7279.8	4367.2	3911.0	4005.8	3807.3	3644.3	3552.5	3484.3	3466.5
47.5°	15083.9	12654.4	6746.4	3896.2	3697.6	3836.9	3724.3	3650.3	3599.9	3552.5	3531.8
50°	16186.1	13187.7	6245.7	3516.9	3505.0	3662.1	3715.5	3688.8	3659.1	3644.3	3626.6
52.5°	17395.0	13732.9	5825.0	3250.3	3336.2	3537.7	3718.4	3739.2	3739.2	3730.3	3718.4
55°	18212.8	14112.1	5398.4	3034.0	3164.3	3436.9	3712.5	3792.5	3822.1	3810.2	3798.4
57.5°	18817.2	14319.5	4862.1	2847.3	3019.2	3339.2	3679.9	3798.4	3828.1	3842.9	3836.9
60°	18941.6	14126.9	4159.8	2651.8	2862.1	3197.0	3561.4	3709.5	3748.0	3839.8	3848.8
62.5°	18381.7	13534.4	3460.6	2459.2	2669.6	2980.7	3401.3	3608.8	3685.9	3828.1	3842.9
64°	17694.2	12870.7	3072.5	2337.7	2545.1	2859.1	3321.4	3582.1	3682.8	3872.5	3884.3
65°	17190.5	12387.8	2829.5	2260.7	2465.1	2779.2	3277.0	3591.0	3709.5	3940.6	3958.4
67.5°	15335.8	10725.6	2340.7	2080.0	2275.5	2642.8	3285.8	3665.1	3703.6	3967.2	3964.3
70°	12689.9	8539.0	1961.4	1914.0	2091.8	2533.3	3250.3	3546.6	3549.5	3724.3	3682.8
72.5°	9502.0	6310.9	1700.7	1742.1	1887.4	2272.6	3069.6	3386.5	3336.2	3359.9	3318.4
75°	6527.2	4174.7	1463.7	1558.5	1674.0	2008.8	2814.7	3075.5	2995.5	2965.9	2936.2
77.5°	3484.3	2308.0	1217.8	1377.7	1454.8	1736.2	2456.2	2708.1	2625.1	2509.5	2471.0
80°	1410.4	1087.4	980.7	1140.7	1185.1	1398.5	2044.4	2201.4	2139.2	1937.7	1872.6
82.5°	708.1	651.9	770.4	897.8	900.7	998.5	1519.9	1668.1	1528.9	1282.9	1226.6
85°	370.4	382.2	530.3	631.1	557.0	539.2	912.6	1010.4	927.4	805.9	725.9
87.5°	133.3	154.1	278.5	275.5	195.5	103.7	201.5	97.8	53.3	32.6	41.5
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)