

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: P651538

Luminaire Tested: **GALN-SA7D-840-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651538
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-SA7D-840-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44937.2 lumens
Efficiency: N/A
Efficacy: 103.8 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

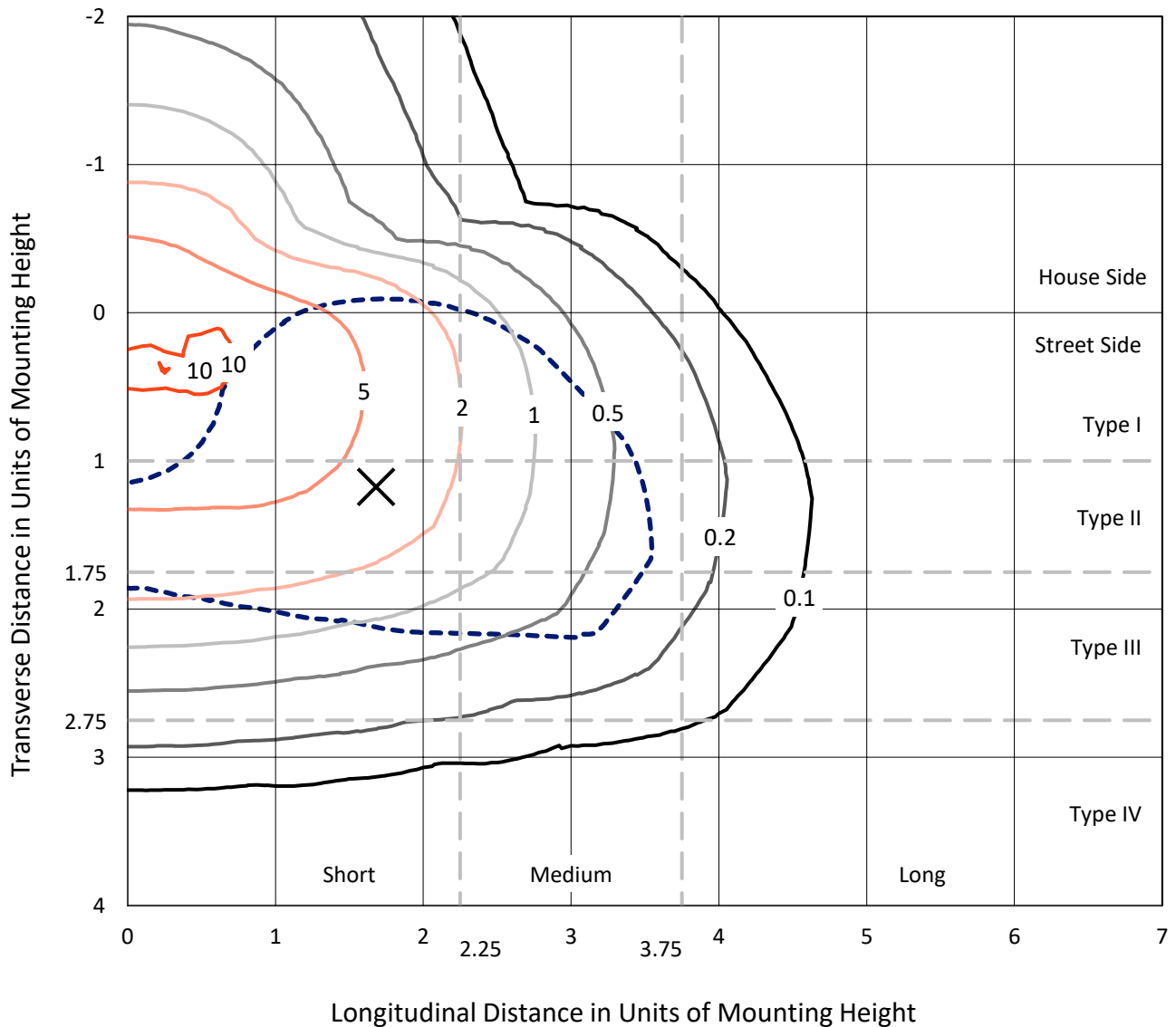
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651538
 CATALOG NUMBER: GALN-SA7D-840-U-T3

Iso-Footcandle Lines of Horizontal Illumination

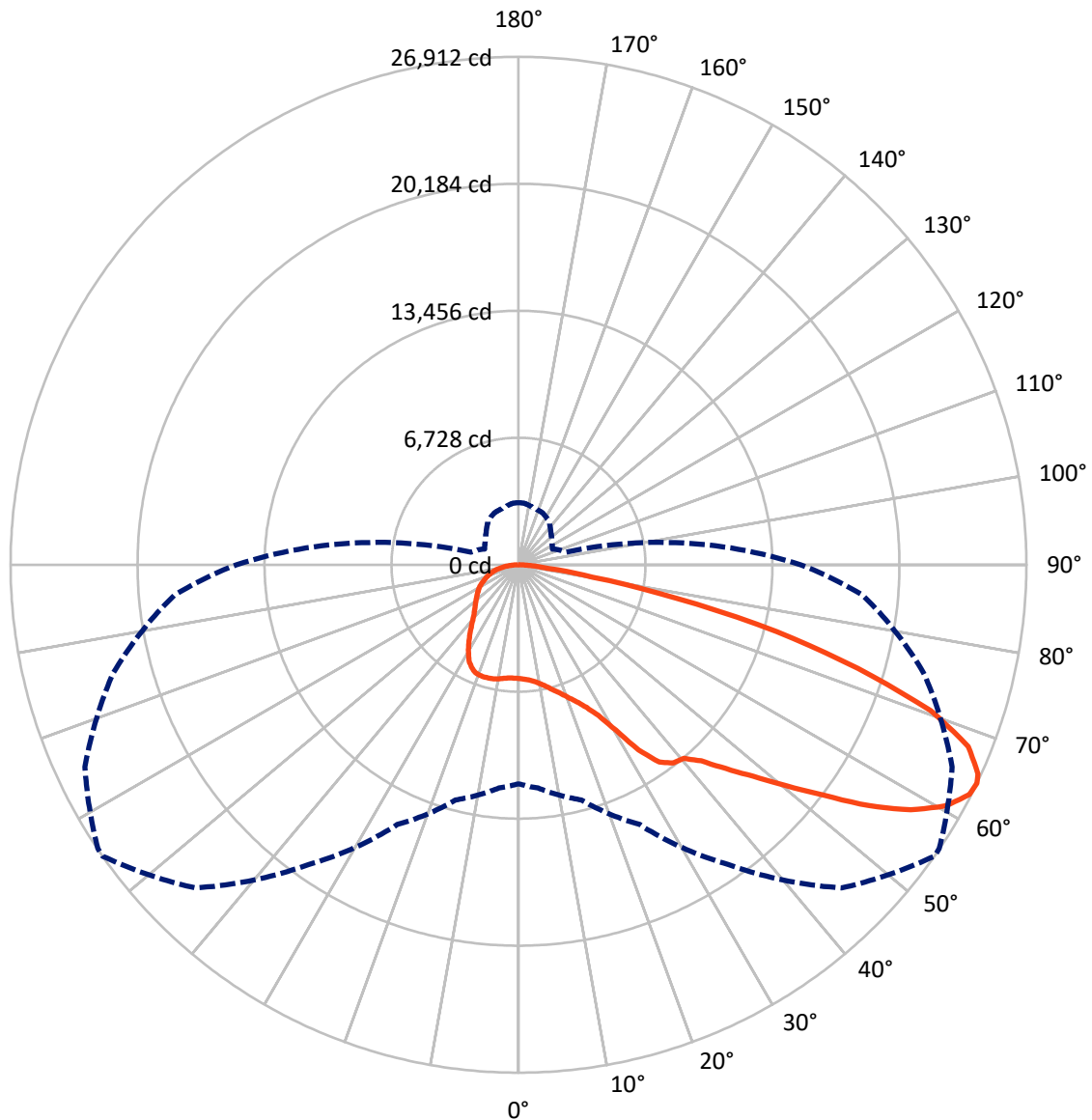
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

REPORT NUMBER: P651538
CATALOG NUMBER: GALN-SA7D-840-U-T3

Luminous Intensity Polar Plot



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

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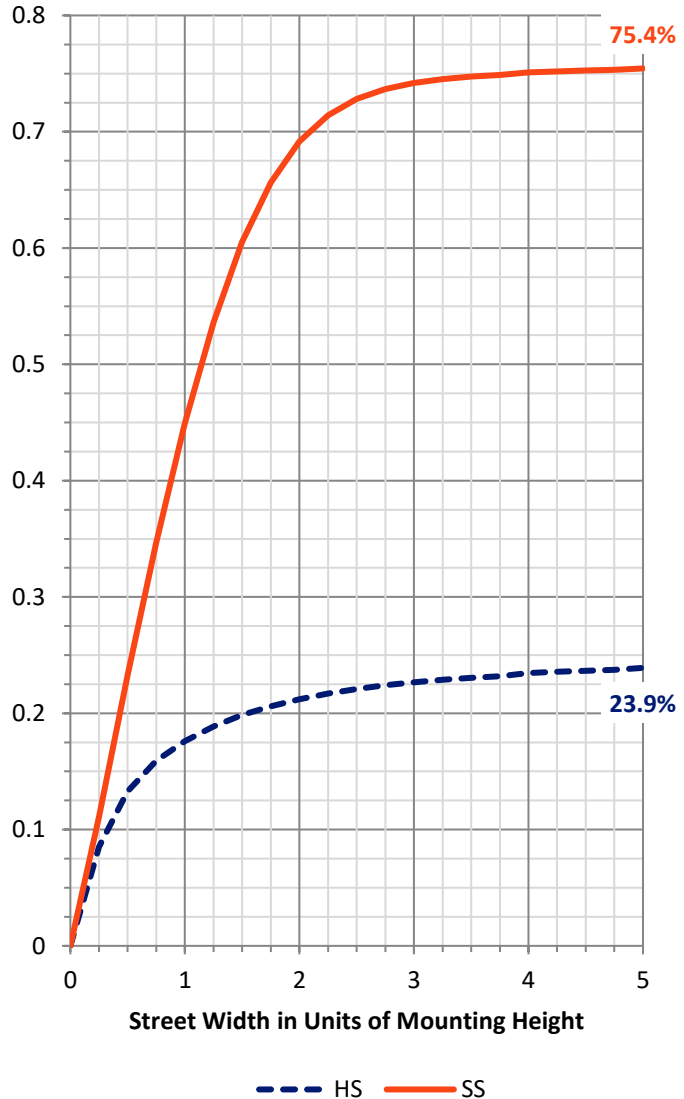
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10916.1	0.0	10916.1
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	34021.0	0.0	34021.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	44937.2	0.0	44937.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	586.5	1.3
10°-20°	1850.5	4.1
20°-30°	3294.4	7.3
30°-40°	5068.8	11.3
40°-50°	7185.5	16.0
50°-60°	10400.8	23.1
60°-70°	10763.7	24.0
70°-80°	5040.7	11.2
80°-90°	746.2	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°	44937.2	100.0
0°-180°	44937.2	100.0

Coefficient of Utilization

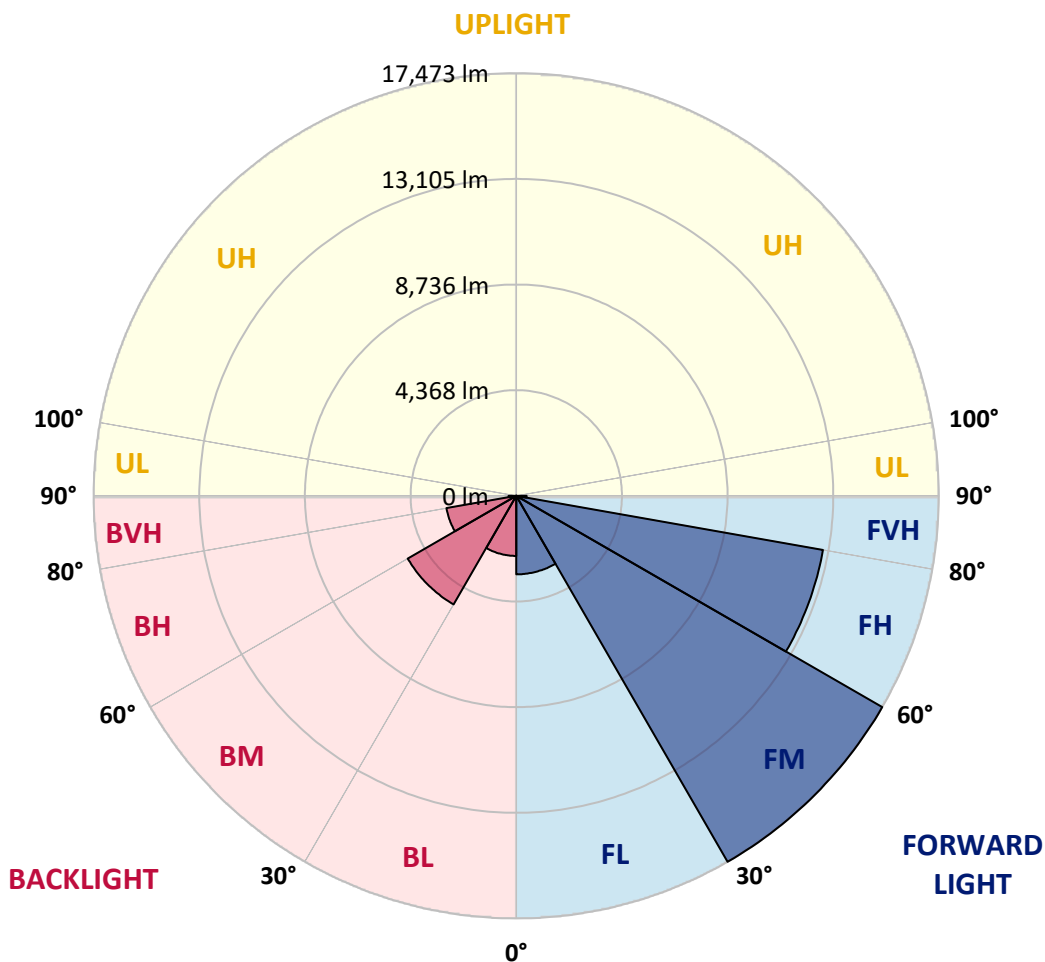


REPORT NUMBER: P651538
 CATALOG NUMBER: GALN-SA7D-840-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3245.2	7.2			
FM (30°-60°)	17472.8	38.9			
FH (60°-80°)	12875.8	28.7			G5
FVH (80°-90°)	427.3	1.0			G3/500
BL (0°-30°)	2486.3	5.5	B3/2500		
BM (30°-60°)	5182.3	11.5	B4/8500		
BH (60°-80°)	2928.6	6.5	B4/5000		G4/5000
BVH (80°-90°)	319.0	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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CATALOG NUMBER: GALN-SA7D-840-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2
2.5°	6096.8	6094.3	6101.9	6094.3	6099.4	6081.8	6074.3	6079.3	6071.8	6059.2	6036.7
5°	6172.0	6169.5	6172.0	6162.0	6167.0	6157.0	6139.4	6144.4	6131.9	6104.3	6071.8
7.5°	6299.8	6289.8	6289.8	6287.2	6277.2	6262.2	6249.6	6244.6	6232.1	6197.1	6147.0
10°	6465.0	6465.0	6467.5	6447.5	6460.1	6432.5	6419.9	6417.5	6374.9	6329.8	6259.6
12.5°	6683.0	6695.5	6688.0	6678.0	6673.0	6662.9	6620.4	6630.4	6582.8	6505.1	6419.9
15°	6953.5	6973.6	6961.0	6956.0	6943.5	6905.9	6888.4	6880.9	6818.2	6705.5	6592.8
17.5°	7311.7	7286.7	7276.7	7264.1	7211.5	7184.0	7153.9	7148.9	7093.8	6961.0	6785.7
20°	7624.8	7659.9	7639.8	7627.3	7574.7	7522.1	7499.5	7492.0	7444.4	7299.2	7018.6
22.5°	7998.0	8005.6	8013.0	7983.0	7958.0	7917.8	7877.8	7865.3	7847.7	7697.4	7354.3
25°	8396.3	8426.4	8401.3	8371.2	8341.2	8338.7	8376.3	8371.2	8363.7	8218.4	7800.2
27.5°	9045.0	9072.6	9080.1	9047.6	8932.3	8942.4	9027.5	9055.0	9170.3	8929.8	8373.8
30°	9410.8	9438.3	9500.9	9623.7	9806.6	9966.9	10172.2	10234.9	10345.1	9891.7	9055.0
32.5°	9636.2	9646.3	9759.0	9986.9	10535.5	11134.1	11692.7	11715.2	11785.4	11149.1	9678.8
35°	9991.9	9999.4	10089.6	10340.1	10983.8	11980.8	12844.9	12872.5	12814.9	11539.9	9969.4
37.5°	10430.3	10450.3	10507.9	10715.8	11484.8	12689.7	13323.4	13303.4	12792.4	11850.5	10482.9
40°	11069.0	11069.0	11001.4	11281.9	12013.3	13095.5	13491.2	13456.2	13320.9	12749.7	11264.4
42.5°	11632.6	11622.5	11782.9	11973.2	12674.6	13721.7	14195.1	14252.7	14475.6	13879.4	12153.6
45°	12366.5	12411.6	12501.8	12847.5	13799.3	14791.3	15402.4	15457.5	15773.1	15209.6	13193.1
47.5°	13108.0	13123.0	13406.0	13866.9	15192.0	16241.6	16742.5	16832.7	17120.7	16765.1	14312.8
50°	13634.0	13776.8	14230.1	14956.5	16627.3	18010.0	18400.7	18508.5	19016.9	18458.4	15617.8
52.5°	14190.0	14330.3	14883.9	15991.0	18275.5	19818.5	20299.4	20372.0	20900.6	20171.6	16953.0
55°	14665.9	14796.2	15424.9	16907.8	19588.1	21664.6	22536.3	22451.1	22704.1	21491.8	17982.4
57.5°	14743.7	14848.9	15640.4	17494.0	20575.0	23247.7	24497.6	24547.7	24254.6	22478.7	18831.6
60°	14142.5	14357.9	15267.2	17431.3	21018.4	24349.8	25960.4	25995.5	25163.9	22984.6	19169.8
62.5°	13077.9	13055.3	14155.0	16424.4	20397.1	24600.3	26822.1	26784.5	25519.6	22741.6	18841.6
64°	11607.6	11878.0	12905.1	15187.0	19395.1	24214.5	26912.3	26892.2	25349.3	22235.7	18283.0
65°	10710.8	10695.8	11710.3	14175.1	18398.2	23633.4	26752.0	26724.4	24993.5	21782.3	17849.6
67.5°	7732.5	7767.6	8769.5	10938.7	14956.5	21361.5	25707.4	25604.7	23590.8	20279.4	16201.4
70°	4684.1	4704.1	5490.6	7256.6	10735.9	17268.5	23172.5	23177.5	21444.2	18035.0	13789.3
72.5°	2467.3	2519.9	2835.5	4120.5	6520.2	12116.0	18799.0	19244.9	18410.8	15392.4	10893.6
75°	1372.7	1380.2	1603.1	2031.4	3326.5	6780.6	14130.0	14257.7	14575.8	12389.0	8055.7
77.5°	1047.0	1062.1	1132.2	1312.5	1811.0	3143.6	8551.6	9192.9	10272.5	8734.5	4596.4
80°	849.2	864.2	924.3	1032.0	1204.8	1490.4	3972.7	4318.4	5498.2	3877.5	1793.5
82.5°	661.3	651.3	728.9	799.0	876.7	881.7	1630.7	1803.5	2239.3	1668.2	776.5
85°	491.0	491.0	553.5	538.6	566.1	516.0	718.9	794.1	896.8	708.9	360.7
87.5°	195.4	215.4	363.2	325.6	253.0	202.9	265.5	280.6	310.6	278.0	150.3
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: P651538
 CATALOG NUMBER: GALN-SA7D-840-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2	6029.2
2.5°	6039.2	6046.7	6029.2	6016.7	6011.6	6004.2	5996.7	5999.2	6009.2	6019.2	6016.7
5°	6069.3	6071.8	6041.7	6026.7	6016.7	6006.7	6006.7	6014.2	6034.3	6049.2	6049.2
7.5°	6144.4	6144.4	6101.9	6074.3	6059.2	6041.7	6036.7	6039.2	6054.3	6074.3	6076.8
10°	6262.2	6252.2	6197.1	6154.4	6126.9	6084.3	6046.7	6026.7	6034.3	6046.7	6046.7
12.5°	6405.0	6377.4	6307.2	6249.6	6182.0	6101.9	6024.2	5984.1	5981.6	5994.1	5989.1
15°	6557.7	6527.7	6429.9	6324.8	6207.1	6089.3	5996.7	5939.1	5894.0	5881.4	5909.0
17.5°	6735.6	6673.0	6537.7	6392.4	6217.1	6064.3	5919.0	5801.3	5721.1	5698.5	5706.1
20°	6951.0	6868.4	6685.4	6457.5	6209.5	5974.1	5748.7	5590.9	5460.6	5420.5	5425.5
22.5°	7249.1	7106.3	6838.3	6490.1	6147.0	5803.7	5490.6	5285.3	5127.5	5064.8	5102.4
25°	7587.2	7431.9	6983.6	6482.6	5984.1	5530.8	5185.1	4917.1	4774.3	4681.6	4701.6
27.5°	8053.2	7777.6	7138.8	6415.0	5751.2	5197.6	4796.8	4543.8	4413.6	4366.0	4388.5
30°	8649.3	8226.0	7306.7	6232.1	5383.0	4776.8	4406.1	4240.7	4163.1	4103.0	4123.0
32.5°	9080.1	8541.6	7344.3	5924.0	4984.7	4393.6	4140.6	4017.8	3932.6	3875.0	3887.5
35°	9388.3	8809.6	7326.7	5545.8	4568.9	4077.9	3930.2	3829.9	3692.2	3566.9	3544.4
37.5°	9801.5	9145.3	7199.0	5132.5	4158.1	3865.0	3759.8	3574.4	3376.5	3208.8	3201.2
40°	10435.3	9538.5	6926.0	4646.5	3807.4	3707.2	3579.5	3339.0	3126.1	2990.8	2980.8
42.5°	11089.0	9901.8	6555.3	4135.5	3519.3	3541.9	3386.5	3148.6	3018.3	2930.7	2920.7
45°	11888.1	10295.0	6154.4	3692.2	3306.4	3386.5	3218.8	3081.0	3003.3	2945.7	2930.7
47.5°	12752.3	10698.3	5703.6	3293.9	3126.1	3243.8	3148.6	3086.0	3043.4	3003.3	2985.8
50°	13684.1	11149.1	5280.2	2973.3	2963.3	3096.0	3141.1	3118.6	3093.5	3081.0	3065.9
52.5°	14706.1	11610.1	4924.6	2747.8	2820.5	2990.8	3143.6	3161.2	3161.2	3153.7	3143.6
55°	15397.4	11930.7	4563.9	2565.0	2675.2	2905.7	3138.6	3206.2	3231.3	3221.3	3211.3
57.5°	15908.4	12106.0	4110.5	2407.2	2552.4	2823.0	3111.0	3211.3	3236.3	3248.8	3243.8
60°	16013.6	11943.2	3516.8	2241.9	2419.7	2702.7	3010.9	3136.1	3168.6	3246.3	3253.8
62.5°	15540.2	11442.2	2925.7	2079.0	2256.9	2519.9	2875.5	3050.9	3116.1	3236.3	3248.8
64°	14959.0	10881.1	2597.5	1976.4	2151.7	2417.2	2807.9	3028.4	3113.6	3273.8	3283.9
65°	14533.2	10472.8	2392.1	1911.2	2084.1	2349.6	2770.4	3035.9	3136.1	3331.5	3346.5
67.5°	12965.2	9067.6	1978.9	1758.4	1923.7	2234.4	2777.9	3098.5	3131.0	3354.0	3351.5
70°	10728.3	7219.1	1658.2	1618.2	1768.5	2141.7	2747.8	2998.3	3000.9	3148.6	3113.6
72.5°	8033.1	5335.4	1437.8	1472.8	1595.6	1921.3	2595.1	2863.1	2820.5	2840.5	2805.4
75°	5518.2	3529.3	1237.4	1317.6	1415.2	1698.3	2379.6	2600.0	2532.4	2507.4	2482.3
77.5°	2945.7	1951.3	1029.5	1164.8	1229.9	1467.9	2076.5	2289.5	2219.3	2121.6	2089.0
80°	1192.3	919.3	829.1	964.4	1002.0	1182.3	1728.3	1861.1	1808.5	1638.2	1583.1
82.5°	598.6	551.1	651.3	759.0	761.4	844.1	1285.0	1410.3	1292.5	1084.6	1037.0
85°	313.1	323.1	448.3	533.5	470.9	455.9	771.5	854.1	784.1	681.3	613.7
87.5°	112.7	130.3	235.5	233.0	165.3	87.6	170.3	82.7	45.1	27.6	35.1
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)