

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: P382701

Luminaire Tested: **GLEON-SA0D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382701
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74533.1 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

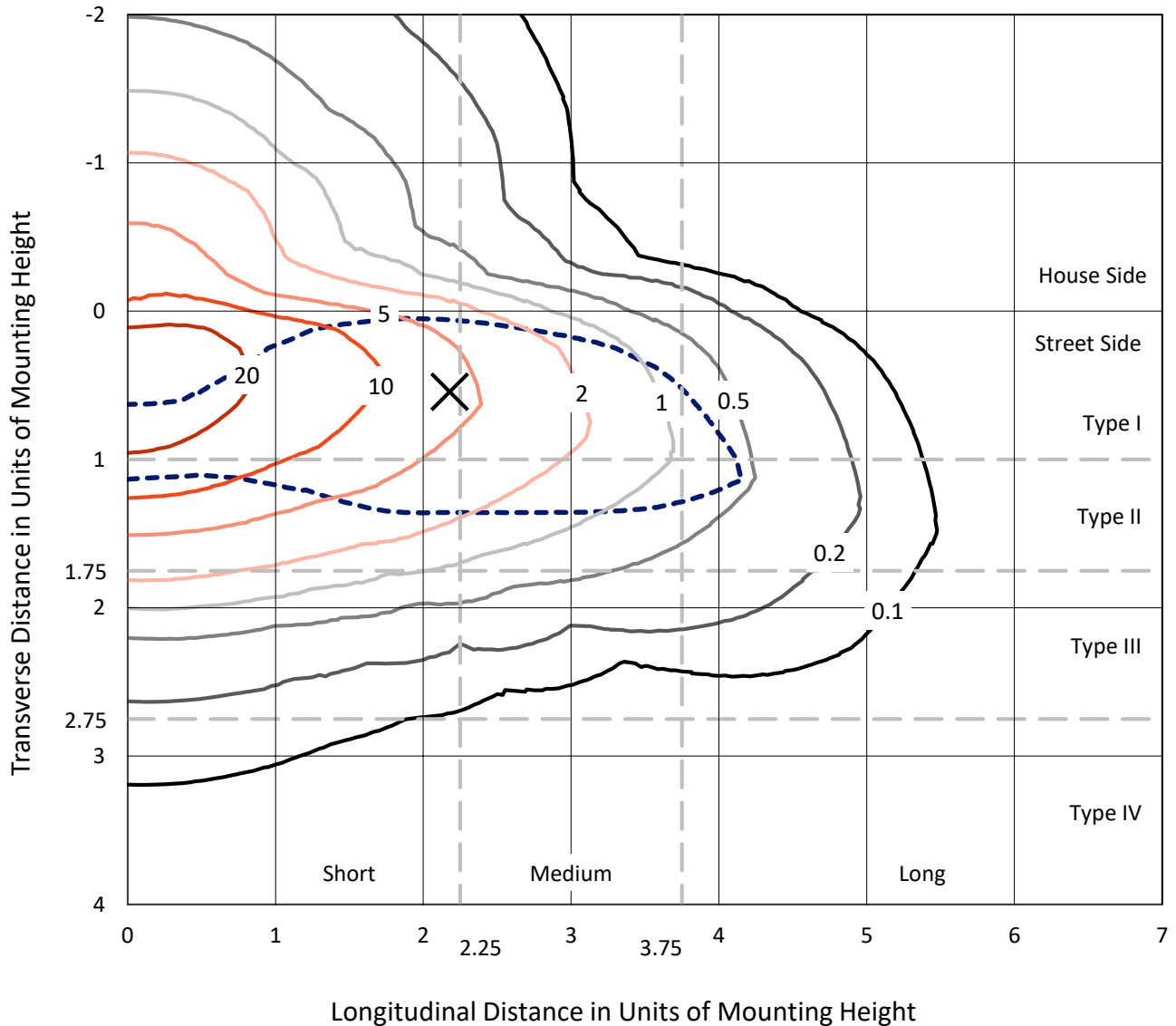
Input Watts (W): 640
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

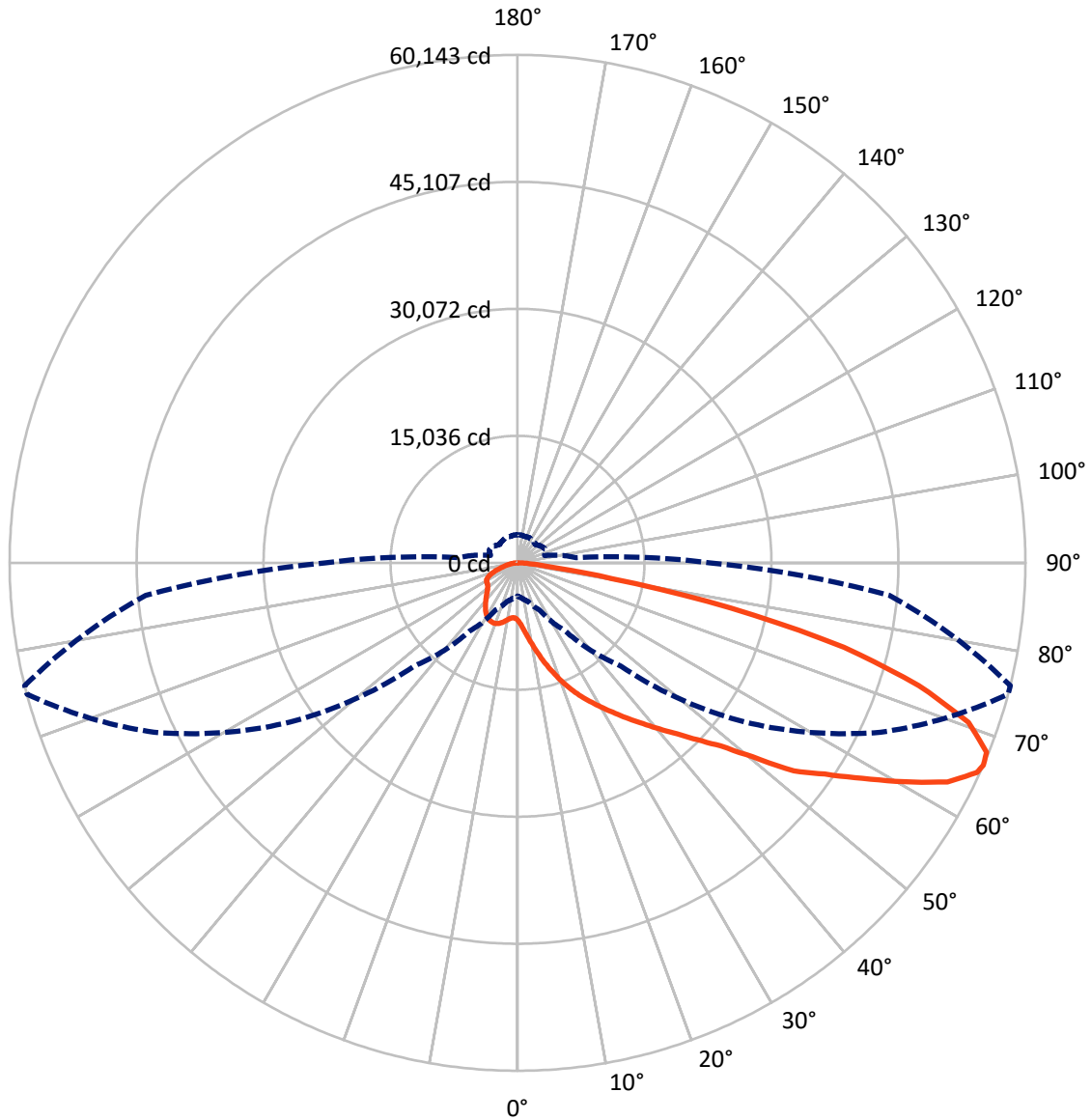
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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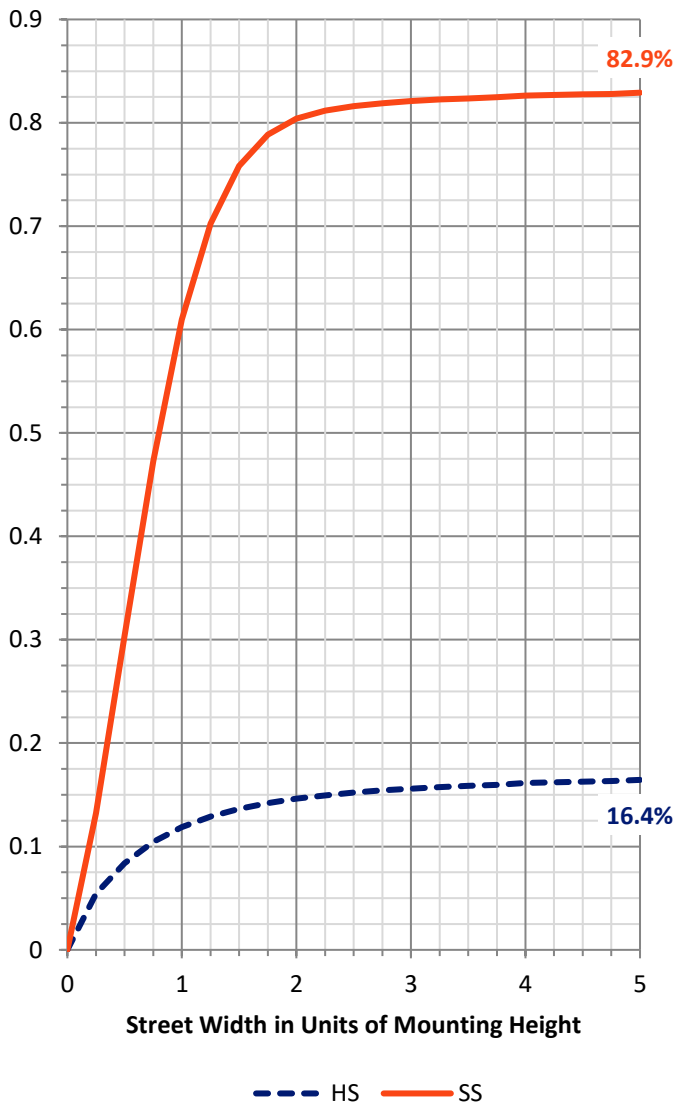
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12541.4	0.0	12541.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	61991.8	0.0	61991.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	74533.1	0.0	74533.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	823.1	1.1
10°-20°	3250.4	4.4
20°-30°	6316.2	8.5
30°-40°	10309.5	13.8
40°-50°	14085.3	18.9
50°-60°	16406.5	22.0
60°-70°	14708.7	19.7
70°-80°	7433.2	10.0
80°-90°	1200.3	1.6
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°	74533.1	100.0
0°-180°	74533.1	100.0

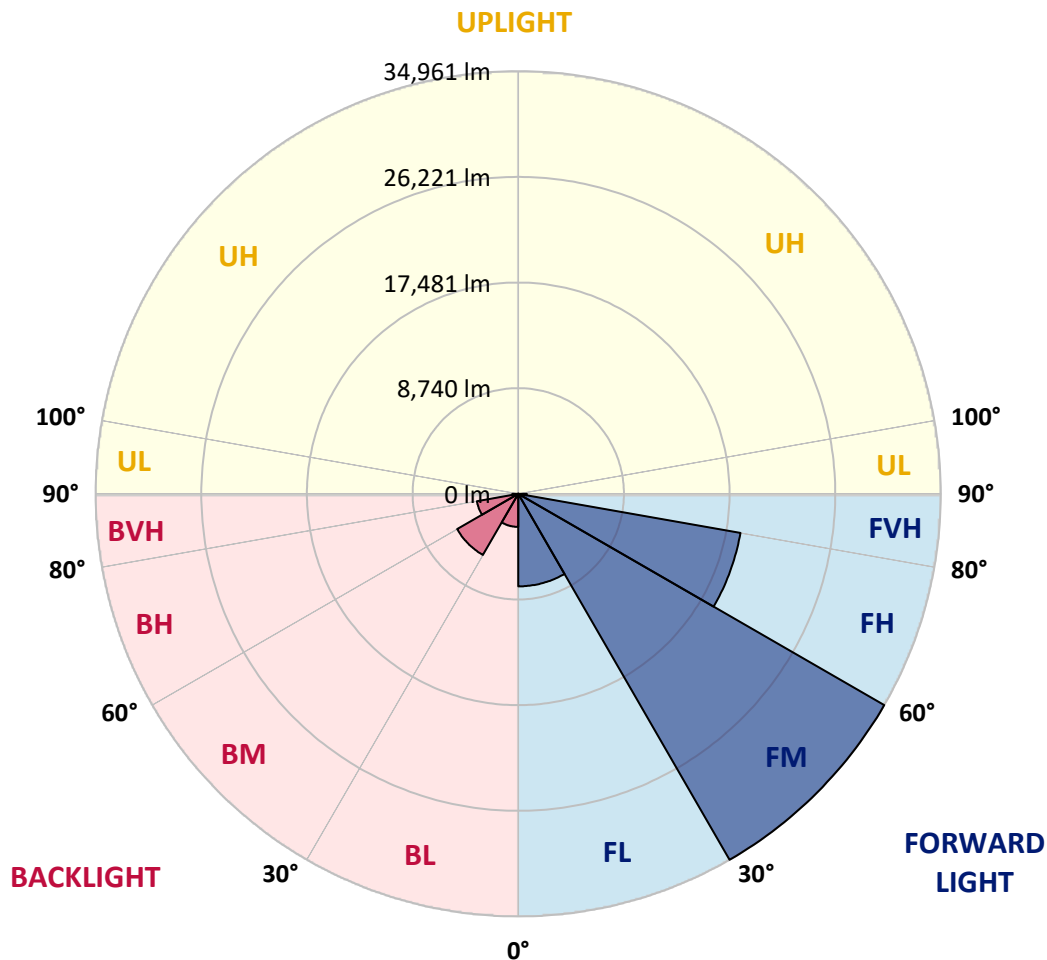


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7654.4	10.3			
FM (30°-60°)	34961.2	46.9			
FH (60°-80°)	18667.3	25.0			G5
FVH (80°-90°)	708.9	1.0			G4/750
BL (0°-30°)	2735.3	3.7	B4/5000		
BM (30°-60°)	5840.0	7.8	B4/8500		
BH (60°-80°)	3474.5	4.7	B4/5000		G4/5000
BVH (80°-90°)	491.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5
2.5°	9035.7	8899.2	8886.5	8686.6	8641.0	8258.9	7978.1	7684.6	7350.6	7284.8	7021.6
5°	11606.5	11593.9	11419.3	11092.9	10837.3	10184.5	9539.3	8856.1	8107.2	7985.7	7393.6
7.5°	13919.3	13899.1	13764.9	13413.3	13043.8	12241.7	11320.6	10273.1	9058.6	8878.9	7897.1
10°	15675.3	15667.7	15622.1	15364.1	15050.4	14281.1	13263.9	11834.3	10164.3	9918.8	8527.2
12.5°	17031.6	17046.8	17077.1	16986.0	16836.7	16181.4	15138.9	13489.1	11343.5	11100.5	9228.1
15°	17950.1	17995.6	18152.5	18281.5	18360.0	17957.6	16948.1	15181.9	12664.2	12373.3	10004.9
17.5°	18413.2	18463.7	18734.4	19124.1	19483.4	19443.0	18640.8	16796.3	13931.9	13651.1	10839.9
20°	18812.9	18850.9	19154.5	19622.6	20257.7	20538.6	20088.2	18349.9	15321.1	14987.1	11725.5
22.5°	19971.8	20019.9	20111.0	20376.7	20938.4	21454.6	21237.0	19820.0	16593.8	16282.6	12565.6
25°	22208.6	22266.8	22069.4	21844.2	21950.5	22309.8	22350.3	21161.0	17884.3	17532.6	13468.9
27.5°	24903.4	24986.9	24650.3	24070.9	23564.9	23425.7	23377.7	22259.2	19116.6	18709.2	14362.0
30°	27542.5	27686.7	27249.0	26497.5	25568.8	24916.0	24432.7	23334.6	20331.1	19941.5	15204.7
32.5°	30120.9	30062.7	29427.6	28693.8	27605.8	26788.5	25619.5	24488.4	21697.5	21249.6	16042.2
35°	31887.1	31907.3	31317.7	30447.4	29409.9	28782.4	27208.5	25733.4	23091.7	22679.3	16993.6
37.5°	33390.1	33296.5	32628.5	31816.3	30923.0	30654.8	29068.3	27104.8	24602.3	24151.9	18005.7
40°	33891.1	33782.3	33344.6	32760.0	32043.9	32021.2	31120.4	28658.4	26310.3	25864.9	19146.9
42.5°	33587.4	33448.2	33268.6	33109.3	32889.0	32990.3	33048.5	30480.2	28187.7	27689.2	20467.8
45°	32466.5	32256.5	32383.0	32729.6	33207.9	33779.8	34789.3	32496.9	30290.5	29873.0	22018.8
47.5°	30743.4	30553.6	30948.3	31689.7	32990.3	34437.6	36436.6	34723.5	32800.5	32385.5	24227.8
50°	28319.3	28374.9	28939.3	30287.9	32254.0	34741.2	38465.9	37671.4	36449.2	36062.1	27241.4
52.5°	24341.6	24351.8	25940.8	28154.8	30948.3	34584.4	39591.9	41439.1	41431.4	40963.3	30110.8
55°	20647.4	20872.6	22130.1	25072.9	28833.0	33956.9	40378.8	43270.9	44703.1	44154.1	32785.4
57.5°	17039.1	17170.8	18362.5	21317.9	25814.3	32284.4	41186.0	45469.8	48473.3	48126.6	36110.1
60°	12935.0	13137.4	14369.7	17099.9	21953.0	29316.3	41261.9	47764.8	52979.8	52630.6	39822.2
62.5°	8395.6	8744.8	9898.6	12456.7	17282.1	25047.6	39500.8	49265.3	57251.0	57127.0	43116.6
65°	4825.3	5088.5	5890.5	7864.2	11922.9	19688.4	35313.1	48688.4	59880.0	59809.1	44348.8
66°	3942.2	4106.7	4721.5	6146.2	9837.9	17289.6	32879.0	47471.3	60140.6	60143.1	44207.2
67.5°	3152.7	3226.1	3502.0	4400.3	7259.5	13704.2	28529.3	44786.7	59816.7	59905.3	43293.8
70°	2608.8	2646.7	2732.8	2950.3	3962.5	8264.0	20250.2	37810.6	56565.2	56633.5	39728.5
72.5°	2340.5	2363.3	2396.2	2426.6	2796.0	4617.9	12368.2	30247.4	49594.2	49682.8	34295.9
75°	2120.4	2133.1	2128.0	2130.5	2345.6	2942.8	6391.6	22583.0	40100.5	39923.3	26272.3
77.5°	1862.3	1874.9	1849.7	1854.7	2074.8	2262.1	3180.6	15809.4	27061.7	25811.8	14802.4
80°	1573.8	1584.0	1573.8	1591.5	1806.6	1708.0	1849.7	8894.0	11965.9	11318.1	5263.1
82.5°	1189.2	1232.3	1262.6	1333.5	1487.9	1214.6	1237.3	3464.0	3643.7	3469.1	1614.4
85°	521.2	635.1	951.4	1019.7	1118.4	728.7	812.2	1411.9	1482.7	1437.2	587.1
87.5°	136.7	149.3	470.6	592.1	619.9	328.9	422.5	642.7	678.2	642.7	194.9
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°	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5	6806.5
2.5°	6882.5	6758.5	6535.8	6338.4	6189.2	6087.9	5986.8	5936.1	5905.7	5875.4	5880.5
5°	7102.6	6852.1	6470.1	6199.3	6047.4	5951.3	5900.7	5880.5	5867.8	5837.4	5837.4
7.5°	7434.0	7079.9	6553.5	6275.2	6156.2	6082.9	6052.5	6042.4	6027.2	5991.8	5996.8
10°	7851.5	7355.6	6728.1	6457.4	6348.6	6267.6	6224.6	6209.4	6181.6	6141.0	6146.2
12.5°	8342.5	7697.2	6958.4	6675.0	6543.4	6434.6	6363.8	6320.7	6272.7	6219.5	6222.1
15°	8878.9	8069.2	7206.4	6869.8	6690.2	6538.3	6424.5	6351.1	6275.2	6209.4	6206.9
17.5°	9422.9	8428.5	7396.1	6976.1	6733.1	6533.3	6379.0	6265.0	6171.4	6090.5	6082.9
20°	10009.9	8752.4	7502.4	6965.9	6652.2	6414.4	6209.4	6067.7	5964.0	5883.0	5870.3
22.5°	10607.1	9056.0	7520.1	6862.2	6472.6	6181.6	5966.5	5809.6	5703.3	5619.8	5589.5
25°	11153.6	9291.3	7446.7	6662.3	6222.1	5908.2	5698.3	5538.9	5452.8	5354.2	5323.8
27.5°	11652.1	9455.8	7300.0	6406.7	5941.2	5632.5	5435.1	5298.5	5204.8	5128.9	5103.7
30°	12100.0	9544.4	7059.5	6103.1	5652.7	5371.9	5204.8	5111.2	5030.3	4934.1	4916.4
32.5°	12525.0	9544.4	6750.9	5771.7	5366.8	5141.6	5042.9	4984.7	4893.6	4800.0	4774.7
35°	12950.2	9486.1	6386.5	5425.0	5103.7	4977.2	4972.0	4903.8	4764.6	4638.1	4605.2
37.5°	13398.1	9367.3	5976.6	5101.2	4888.6	4903.8	4946.8	4795.0	4597.6	4418.0	4369.9
40°	13904.1	9202.8	5551.6	4820.3	4708.9	4870.9	4878.4	4638.1	4253.4	4089.0	4046.0
42.5°	14498.7	9038.3	5156.8	4572.3	4567.2	4772.2	4749.4	4299.0	4068.7	3985.3	3962.5
45°	15280.5	8944.7	4782.3	4337.0	4455.9	4612.7	4529.3	4111.8	4015.6	3967.6	3947.3
47.5°	16512.9	8992.8	4438.2	4149.8	4344.6	4453.4	4119.4	4035.8	3967.6	3909.3	3889.1
50°	18056.4	8964.9	4159.8	4020.7	4218.0	4286.3	3934.7	3937.2	3901.8	3835.9	3805.6
52.5°	19217.7	8747.3	3980.2	3947.3	4106.7	3990.3	3818.2	3841.1	3823.4	3727.1	3694.2
55°	20338.7	8560.1	3889.1	3919.5	4025.8	3620.9	3681.6	3737.3	3719.6	3626.0	3610.8
57.5°	21732.9	8524.7	3833.4	3927.0	3957.4	3436.2	3550.0	3623.4	3610.8	3570.2	3562.7
60°	23440.9	8534.7	3782.8	3939.7	3881.5	3299.5	3426.0	3519.7	3527.3	3519.7	3514.6
62.5°	24379.6	8258.9	3656.3	3904.3	3747.4	3180.6	3297.0	3433.7	3436.2	3451.4	3448.9
65°	23582.6	7434.0	3421.0	3780.3	3522.2	3081.9	3185.7	3334.9	3297.0	3365.3	3365.3
66°	22808.3	6958.4	3304.6	3699.4	3426.0	3044.0	3150.2	3284.4	3236.3	3329.9	3329.9
67.5°	21226.8	6156.2	3094.6	3527.3	3289.4	2990.8	3109.8	3200.9	3135.0	3274.2	3264.1
70°	18337.2	4762.1	2672.1	3137.6	3064.2	2912.4	3054.1	3033.9	2937.7	3150.2	3109.8
72.5°	15460.2	3618.3	2145.7	2626.5	2722.6	2813.7	2975.6	2821.3	2699.8	2849.1	2760.5
75°	11996.3	2720.1	1695.3	2042.0	2300.1	2659.4	2882.0	2575.8	2401.3	2386.1	2338.0
77.5°	6485.2	1867.4	1343.6	1558.7	1826.9	2467.0	2818.8	2312.8	2049.6	1988.9	1950.8
80°	2568.3	1214.6	976.7	1181.7	1277.8	2188.8	2666.9	2006.6	1690.3	1629.6	1571.3
82.5°	1060.2	718.6	630.0	792.0	832.4	1872.4	2393.7	1644.7	1305.7	1806.6	1918.0
85°	455.4	394.7	374.5	409.9	470.6	1313.2	1905.3	1255.1	1409.4	1257.6	999.5
87.5°	136.7	167.0	159.4	156.9	172.1	313.7	1014.6	698.4	1034.9	392.2	293.5
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)