

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: P382643

Luminaire Tested: **GLEON-SA0B-735-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0B-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51708.3 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

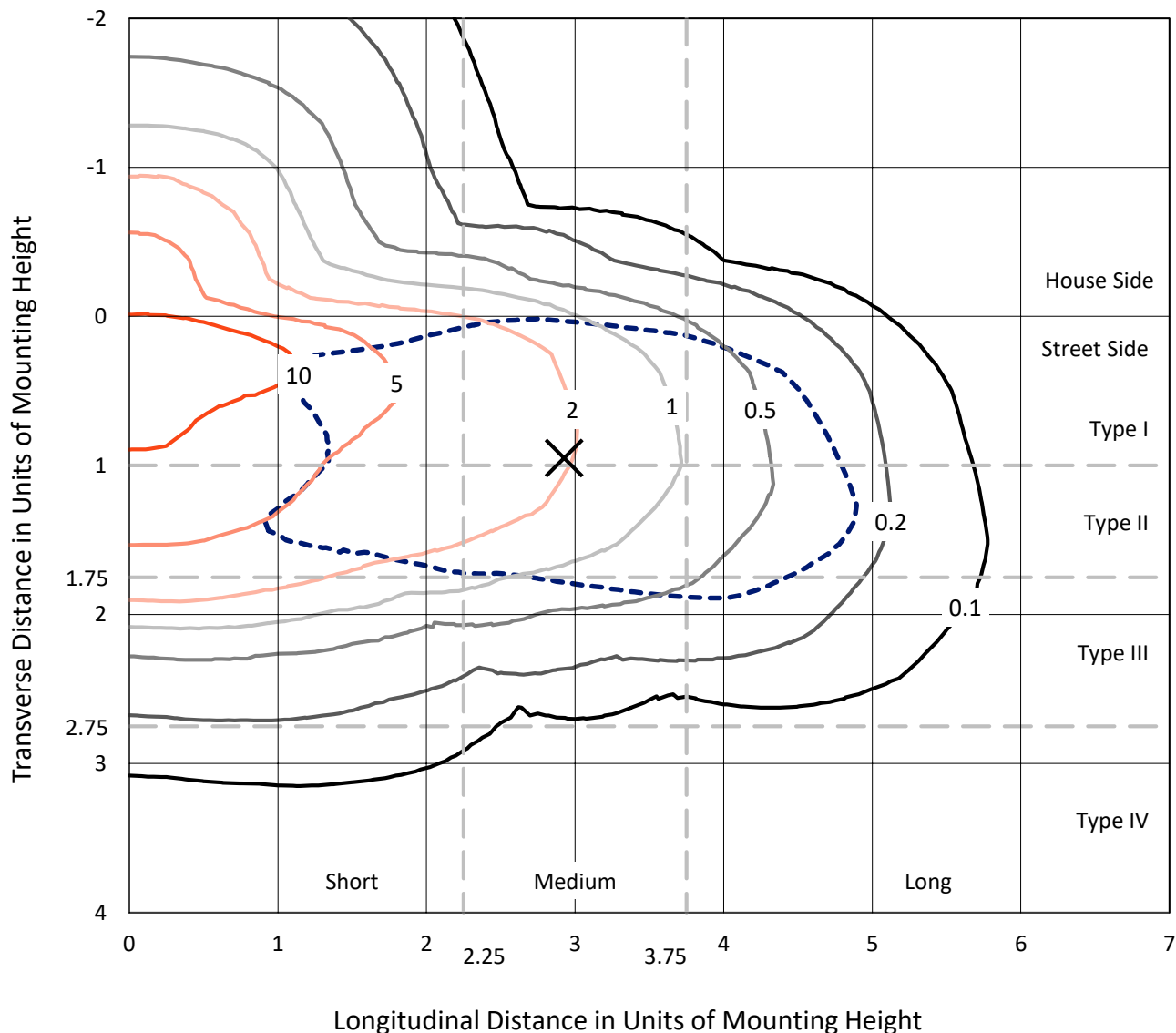
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

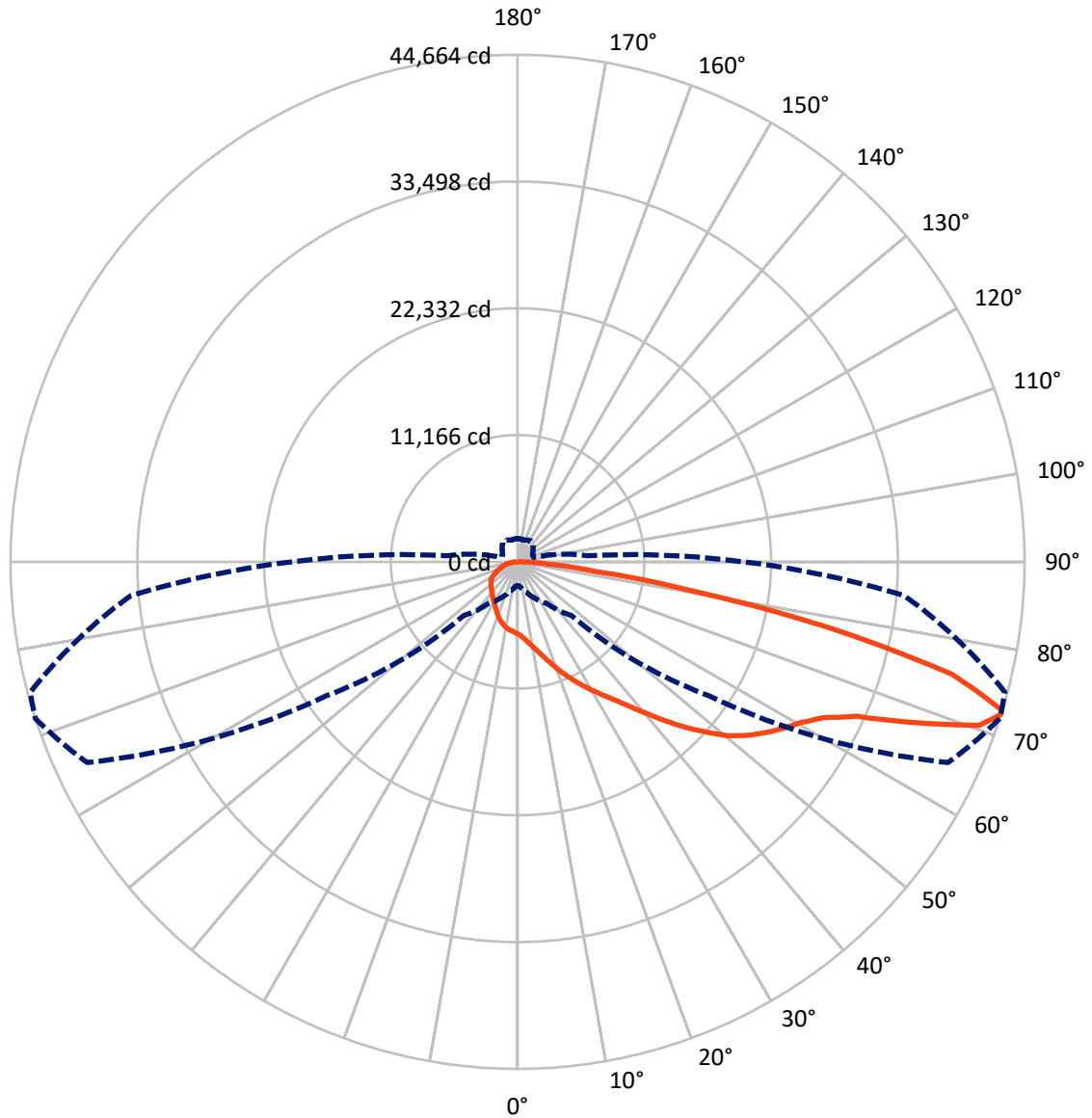
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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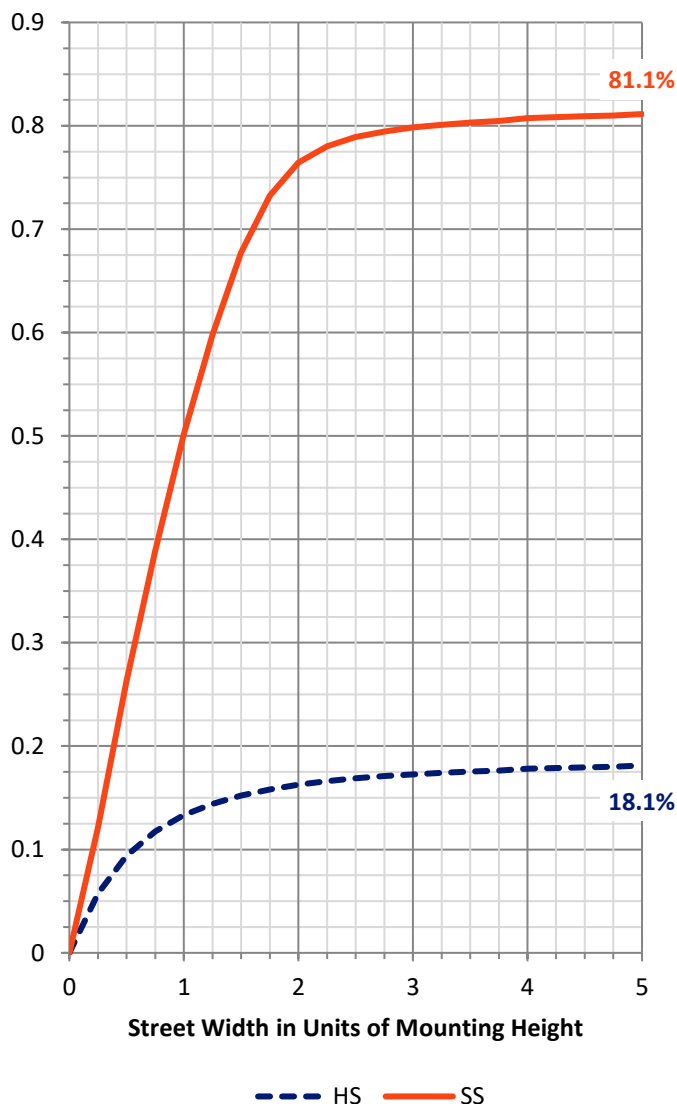
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9592.2	0.0	9592.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	42116.1	0.0	42116.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	51708.3	0.0	51708.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.4	1.2
10°-20°	2059.9	4.0
20°-30°	3609.6	7.0
30°-40°	5351.9	10.4
40°-50°	7827.5	15.1
50°-60°	10770.6	20.8
60°-70°	11990.9	23.2
70°-80°	8125.0	15.7
80°-90°	1335.4	2.6
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°	51708.3	100.0
0°-180°	51708.3	100.0

Coefficient of Utilization

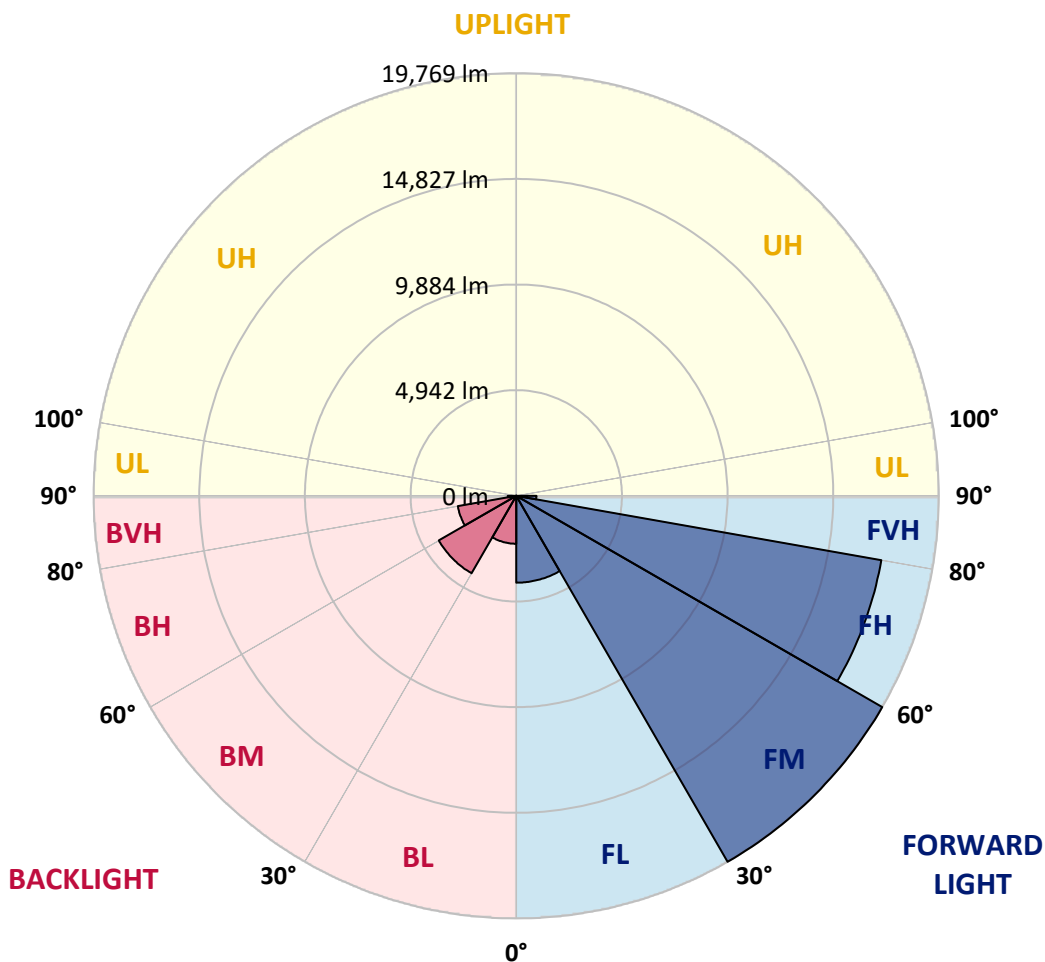


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4064.6	7.9			
FM (30°-60°)	19768.7	38.2			
FH (60°-80°)	17340.8	33.5			G5
FVH (80°-90°)	942.0	1.8			G5
BL (0°-30°)	2242.3	4.3	B3/2500		
BM (30°-60°)	4181.3	8.1	B3/5000		
BH (60°-80°)	2775.2	5.4	B4/5000		G4/5000
BVH (80°-90°)	393.4	0.8			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4
2.5°	7027.3	7016.7	6979.2	6979.2	6908.1	6847.5	6733.6	6657.0	6566.2	6534.2	6427.3
5°	7707.4	7711.1	7664.8	7632.7	7527.6	7399.5	7205.4	7029.2	6852.8	6781.7	6562.7
7.5°	8279.0	8271.9	8259.4	8232.7	8134.7	8003.0	7741.3	7479.6	7219.7	7112.8	6735.4
10°	8645.8	8661.8	8672.4	8684.9	8644.0	8549.7	8302.1	7983.5	7643.3	7497.4	6941.9
12.5°	8830.9	8859.4	8909.2	8994.7	9062.4	9051.7	8871.9	8533.6	8129.4	7946.1	7200.0
15°	8939.5	8977.0	9055.3	9208.3	9398.8	9507.5	9459.4	9153.2	8702.7	8476.6	7515.2
17.5°	9007.2	9037.5	9158.5	9363.3	9646.4	9934.8	10061.2	9804.8	9350.8	9092.6	7876.6
20°	9053.5	9076.6	9228.0	9468.3	9835.1	10294.4	10646.9	10582.8	10064.8	9730.0	8254.1
22.5°	9156.7	9176.3	9320.5	9562.7	9968.6	10561.5	11211.4	11307.5	10817.9	10438.6	8658.3
25°	9445.1	9445.1	9566.2	9735.4	10116.4	10793.0	11688.5	12114.0	11587.1	11145.5	9032.1
27.5°	9995.3	9990.0	10034.5	10093.2	10381.7	11027.9	12114.0	12826.2	12384.6	11902.2	9395.3
30°	10646.9	10682.6	10687.9	10659.4	10794.8	11321.8	12507.5	13577.6	13187.6	12667.7	9767.5
32.5°	11485.5	11508.7	11482.0	11387.6	11368.0	11738.3	12893.8	14364.5	14056.5	13467.2	10107.5
35°	12550.3	12505.7	12422.1	12229.7	12046.4	12295.7	13335.4	15151.4	15032.2	14434.0	10575.8
37.5°	13691.5	13693.3	13590.0	13153.8	12901.0	13007.9	13944.3	16043.5	16212.6	15584.1	11175.8
40°	14606.7	14654.7	14718.8	14145.6	13817.9	13965.7	14718.8	17077.9	17608.5	16947.9	11957.3
42.5°	15245.8	15301.0	15482.6	15122.9	14782.9	15057.1	15630.4	18181.8	19175.3	18521.8	12872.5
45°	15922.4	15952.7	16080.8	15925.9	15708.7	16326.6	16657.7	19324.8	20832.9	20198.9	13896.3
47.5°	16634.6	16666.6	16798.3	16695.1	16581.2	17512.3	17729.5	20401.9	22421.0	22041.7	14989.4
50°	17514.1	17535.5	17660.1	17473.1	17508.7	18406.1	18687.4	21390.1	24085.6	23697.5	16086.2
52.5°	18714.1	18719.4	18892.2	18723.0	18555.7	19061.2	19511.7	22321.3	25390.7	25207.3	17183.0
55°	19654.2	19711.2	20277.3	20241.7	20145.6	19655.9	20200.8	23207.9	26555.1	26642.4	18347.3
57.5°	19054.2	19276.7	20423.3	21231.6	22018.6	21135.5	21131.9	24206.7	27637.6	28050.7	19627.4
60°	16687.9	16990.7	18680.2	20473.2	22935.5	23709.9	23065.5	25426.3	28730.8	29446.5	21231.6
62.5°	11918.2	12416.7	14706.3	17569.3	21678.5	25415.6	27000.3	27361.6	30217.4	31063.2	23316.5
65°	6025.0	6402.4	8321.7	11770.4	17320.0	24301.1	31276.8	31599.0	32800.8	33552.2	26526.7
67.5°	3660.6	3803.0	4739.5	6546.6	10618.5	18929.5	32672.6	38662.0	37800.3	38199.1	31104.1
70°	2697.4	2802.4	3386.4	4347.8	6106.9	11108.1	28388.9	43702.4	43136.2	43091.7	34486.9
72°	2100.9	2177.5	2693.8	3512.8	4465.3	6664.1	20576.4	41841.9	44663.9	44439.6	34177.1
72.5°	1992.3	2059.9	2530.0	3306.2	4219.6	6041.0	18500.4	40586.7	44553.5	44452.0	33776.5
75°	1568.5	1616.6	1873.0	2556.7	3302.7	3427.3	10137.8	31453.1	39523.8	41167.1	30379.4
77.5°	1297.9	1305.1	1440.4	1860.6	2574.5	2423.1	4979.9	21822.7	28301.7	30108.8	21520.1
80°	1057.6	1066.4	1130.6	1305.1	1947.8	1792.9	2364.5	12548.5	15845.8	15865.4	10233.9
82.5°	842.1	843.9	915.2	954.3	1399.5	1281.9	1354.9	5891.5	6924.1	6660.6	3678.4
85°	592.8	580.4	893.8	783.4	915.2	822.6	747.8	2332.4	2862.9	2738.3	1152.0
87.5°	197.6	204.8	397.0	507.4	534.1	466.5	332.9	893.8	1080.7	1071.8	365.0
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°	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4	6361.4
2.5°	6393.5	6336.6	6252.8	6160.3	6087.3	6012.5	5957.3	5928.8	5896.8	5870.1	5902.1
5°	6461.2	6354.4	6176.3	6001.9	5873.6	5759.7	5677.8	5635.0	5595.9	5569.2	5572.7
7.5°	6571.6	6398.9	6099.8	5845.2	5667.1	5544.3	5460.5	5432.1	5407.2	5400.1	5408.9
10°	6689.1	6434.5	5998.2	5660.0	5457.0	5355.6	5318.1	5337.8	5355.6	5371.6	5389.4
12.5°	6822.6	6466.5	5850.5	5442.8	5270.0	5230.9	5268.3	5353.8	5416.1	5453.5	5476.6
15°	6997.1	6495.0	5679.6	5225.5	5109.8	5154.3	5280.8	5428.5	5537.1	5606.6	5617.2
17.5°	7157.4	6493.3	5460.5	5006.6	4979.9	5109.8	5300.3	5508.6	5654.7	5752.6	5772.1
20°	7322.9	6445.2	5206.0	4792.9	4848.1	5061.8	5309.3	5560.3	5736.6	5850.5	5877.2
22.5°	7477.8	6361.4	4926.5	4598.9	4737.8	4997.7	5275.4	5530.0	5706.3	5798.9	5827.4
25°	7582.9	6215.5	4643.4	4435.0	4639.8	4919.3	5165.1	5369.8	5501.5	5547.8	5554.9
27.5°	7636.3	6025.0	4376.3	4292.6	4538.3	4791.1	4960.3	5061.8	5099.1	5095.6	5088.5
30°	7643.3	5773.9	4146.6	4176.9	4420.8	4602.4	4682.5	4663.0	4614.9	4533.0	4540.1
32.5°	7620.2	5490.8	3954.3	4066.5	4271.2	4372.8	4376.3	4282.0	4153.8	4023.7	3988.1
35°	7627.3	5213.1	3785.2	3941.8	4089.7	4134.1	4093.2	3954.3	3779.8	3612.4	3576.9
37.5°	7705.7	4970.9	3639.2	3797.6	3888.5	3899.2	3840.4	3694.4	3566.2	3402.4	3388.1
40°	7892.6	4798.2	3500.3	3635.6	3687.3	3692.7	3608.9	3505.7	3516.3	3429.1	3427.3
42.5°	8229.1	4723.5	3377.5	3466.5	3498.5	3509.2	3445.1	3379.3	3471.9	3414.9	3395.3
45°	8663.6	4741.3	3274.2	3300.9	3359.6	3409.6	3370.3	3290.2	3325.8	3078.4	2996.5
47.5°	9165.7	4855.2	3192.3	3158.5	3260.0	3354.3	3293.8	3172.8	3046.3	2800.6	2754.3
50°	9753.2	5031.5	3117.5	3017.8	3151.3	3279.5	3219.1	3046.3	2855.8	2736.5	2720.5
52.5°	10365.7	5246.9	3042.7	2862.9	3014.3	3222.6	3192.3	3017.8	2782.8	2665.3	2643.9
55°	11060.0	5464.2	2948.3	2683.1	2866.5	3195.9	3179.8	2914.5	2727.7	2661.7	2645.7
57.5°	11923.5	5711.6	2823.8	2496.2	2727.7	3099.7	3049.9	2852.2	2670.7	2620.8	2615.4
60°	13048.7	6076.6	2643.9	2296.7	2558.5	2952.0	2941.3	2761.5	2579.8	2544.2	2537.1
62.5°	14736.6	6680.1	2396.5	2097.4	2369.8	2700.9	2798.8	2638.6	2483.7	2481.9	2485.5
65°	17353.9	7588.2	2127.7	1922.9	2179.3	2489.0	2633.3	2512.2	2385.8	2421.4	2426.7
67.5°	20387.7	8341.4	1864.1	1752.0	1985.2	2287.9	2483.7	2385.8	2255.8	2348.4	2350.2
70°	21397.2	7668.3	1632.6	1582.8	1784.0	2093.7	2321.7	2246.9	2115.2	2207.8	2198.8
72°	19912.3	6190.6	1483.1	1454.6	1632.6	1933.5	2177.5	2116.9	1987.0	2049.3	2026.1
72.5°	19444.1	5902.1	1445.7	1422.6	1591.7	1892.6	2140.0	2084.9	1954.9	2008.3	1987.0
75°	17345.0	5125.8	1242.8	1248.1	1388.8	1693.2	1930.0	1912.2	1778.6	1784.0	1776.8
77.5°	12580.6	3758.5	1046.9	1082.5	1182.2	1488.4	1718.1	1707.4	1561.5	1534.7	1529.4
80°	5838.0	1917.5	852.8	868.9	972.1	1244.5	1465.3	1451.1	1333.5	1299.7	1280.1
82.5°	1999.4	911.6	641.0	651.6	753.2	1002.3	1271.2	1262.3	1164.4	1098.5	1057.6
85°	713.9	454.0	448.6	438.0	537.7	788.7	1107.4	1059.4	915.2	779.8	776.3
87.5°	231.5	194.0	231.5	229.7	313.4	534.1	804.8	685.4	664.1	551.9	541.2
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)