

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: P382705

Luminaire Tested: **GLEON-SA0D-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382705
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 73147.9 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

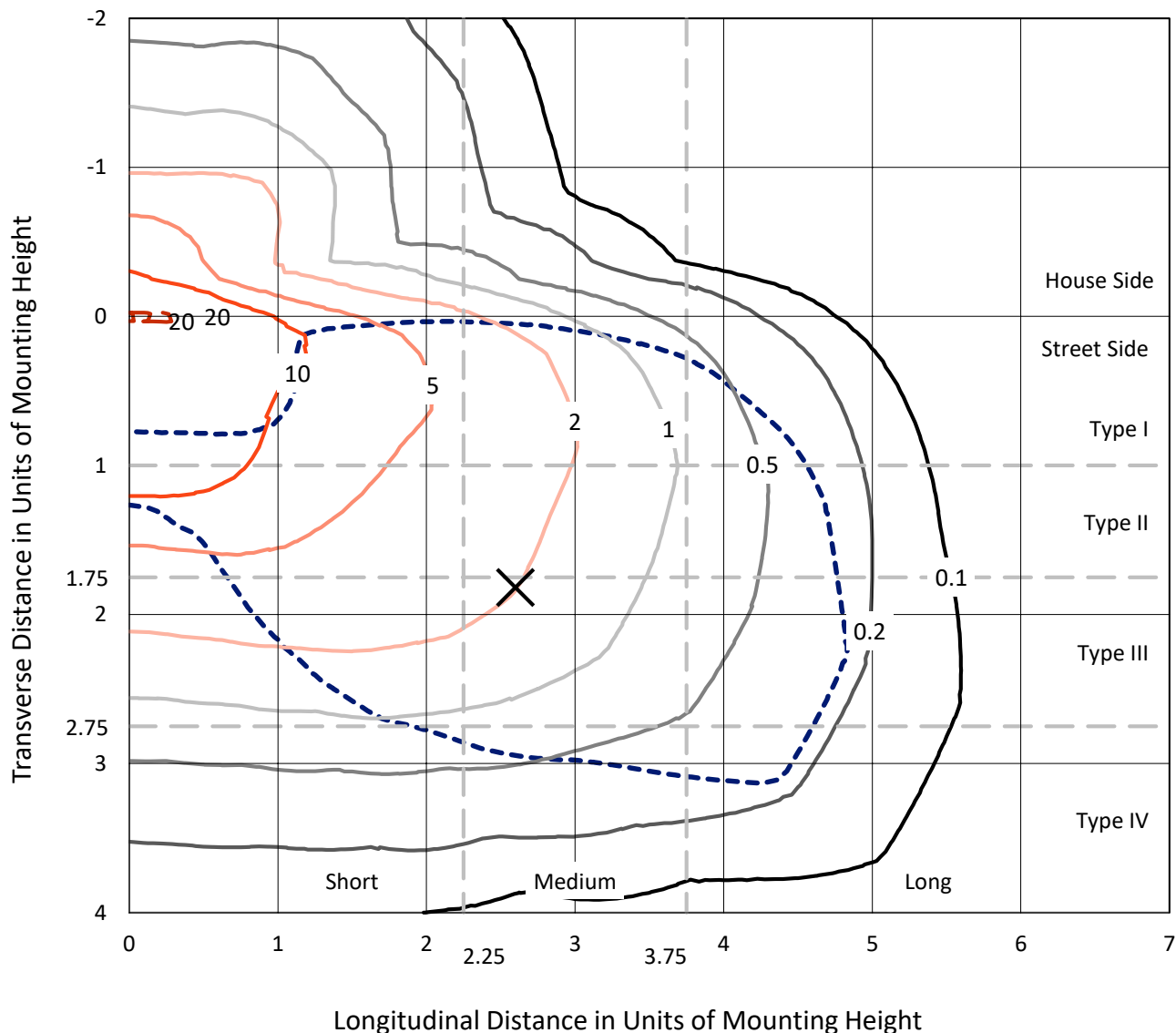
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

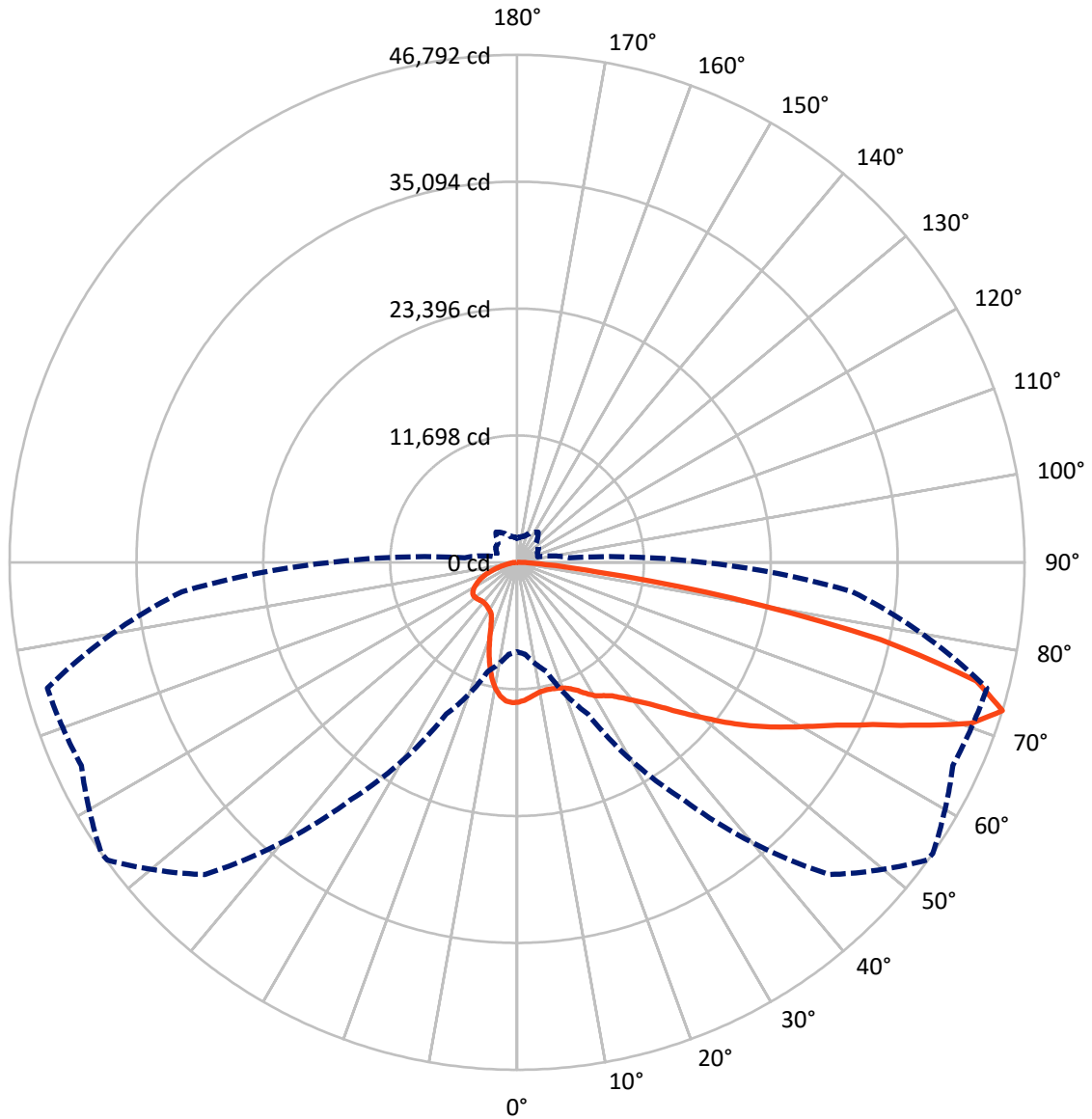
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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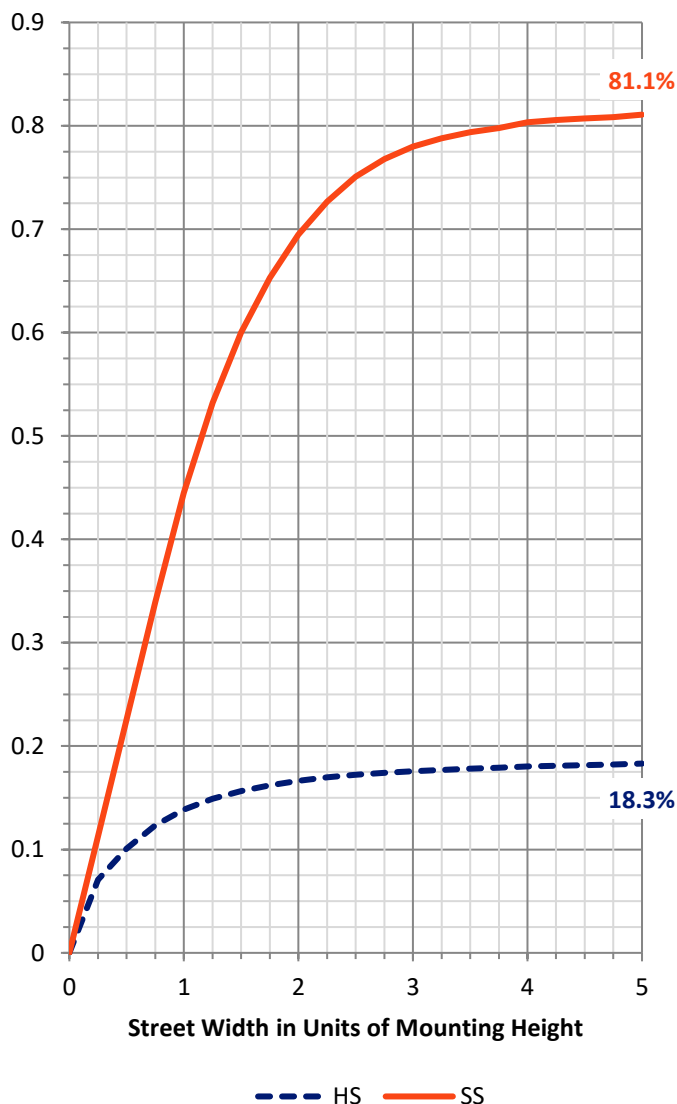
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13595.8	0.0	13595.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	59552.1	0.0	59552.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	73147.9	0.0	73147.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1167.5	1.6
10°-20°	3108.2	4.2
20°-30°	5124.6	7.0
30°-40°	7580.6	10.4
40°-50°	10580.9	14.5
50°-60°	13776.7	18.8
60°-70°	16931.2	23.1
70°-80°	13272.0	18.1
80°-90°	1606.1	2.2
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°	73147.9	100.0
0°-180°	73147.9	100.0

Coefficient of Utilization

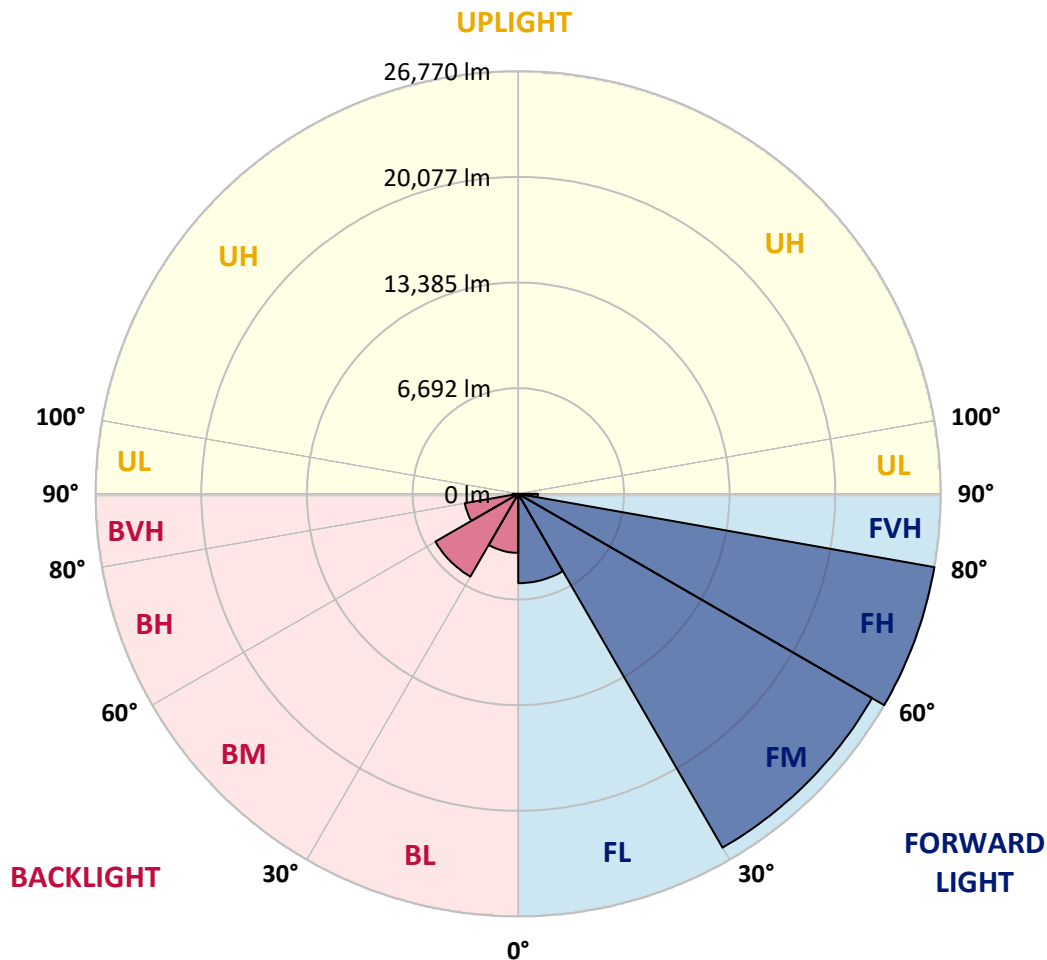


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5659.5	7.7			
FM (30°-60°)	25881.2	35.4			
FH (60°-80°)	26769.7	36.6			G5
FVH (80°-90°)	1241.8	1.7			G5
BL (0°-30°)	3740.8	5.1	B4/5000		
BM (30°-60°)	6057.1	8.3	B4/8500		
BH (60°-80°)	3433.6	4.7	B4/5000		G4/5000
BVH (80°-90°)	364.3	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7
2.5°	12481.7	12452.1	12489.2	12541.0	12597.8	12674.5	12718.9	12738.6	12815.2	12844.9	12909.1
5°	11903.6	11888.8	11950.5	12039.5	12165.5	12343.4	12486.7	12513.9	12716.5	12859.7	12990.6
7.5°	11483.6	11483.6	11555.2	11661.5	11802.2	12041.9	12244.5	12281.6	12625.0	12933.8	13176.0
10°	11150.1	11162.4	11246.4	11372.4	11538.0	11792.4	12061.7	12103.7	12600.3	13106.8	13492.2
12.5°	10927.7	10957.3	11033.9	11147.6	11352.6	11661.5	12002.4	12059.3	12652.2	13353.8	13872.7
15°	11068.5	11117.9	11125.3	11172.2	11285.9	11621.9	12037.0	12096.3	12763.3	13605.8	14305.0
17.5°	11686.2	11703.5	11626.8	11528.0	11473.7	11688.6	12140.8	12202.5	12896.8	13855.4	14720.1
20°	12625.0	12615.1	12449.6	12182.8	11906.0	11940.7	12311.2	12375.4	13077.2	14075.3	15135.2
22.5°	13810.9	13776.3	13521.9	13030.2	12558.3	12360.6	12610.2	12664.6	13348.9	14389.1	15579.9
25°	15248.9	15172.2	14836.2	14176.6	13482.3	12973.4	13059.8	13111.7	13744.2	14739.9	15987.6
27.5°	16765.8	16689.2	16261.8	15463.8	14539.8	13746.7	13680.0	13724.4	14193.9	14999.3	16288.9
30°	18352.0	18270.4	17880.0	16985.7	15661.5	14547.1	14258.1	14275.4	14510.1	15140.2	16536.0
32.5°	19945.6	19869.0	19431.6	18394.0	16879.5	15407.0	14675.6	14653.4	14700.4	15285.9	16815.2
35°	21561.3	21590.9	21079.5	19930.7	18228.4	16363.1	15169.8	15122.8	15019.1	15584.9	17210.5
37.5°	23290.8	23271.0	22608.8	21408.2	19639.2	17400.8	15878.9	15871.4	15513.2	16150.6	17830.7
40°	24447.1	24459.4	24056.7	22920.2	21064.7	18549.6	16788.1	16770.7	16301.3	16998.0	18643.5
42.5°	24899.1	24980.8	25084.4	24363.0	22557.0	19881.3	17872.7	17848.0	17400.8	18213.6	19599.7
45°	24931.3	25094.4	25736.7	25645.3	24069.0	21405.7	19258.7	19189.5	18868.3	19829.4	20741.1
47.5°	24654.6	24822.6	25889.9	26408.7	25420.4	23014.1	20879.4	20825.1	20548.4	21850.4	21976.4
50°	24049.3	24209.9	25573.7	26781.8	26532.2	24560.7	22747.3	22603.9	22455.7	24185.1	23389.6
52.5°	22915.2	23224.0	25151.2	26870.8	27196.9	25934.4	24711.4	24617.5	24699.1	26648.4	24805.2
55°	20229.7	20575.6	24061.6	26796.6	27688.6	27088.2	26675.6	26670.7	27093.1	29232.7	26324.7
57.5°	18725.0	18969.7	21843.0	26670.7	28271.6	28234.6	28619.9	28666.9	29489.6	32046.7	27915.9
60°	17875.1	18132.1	20718.8	26203.7	29175.9	29716.9	30603.9	30697.8	31925.7	35162.3	29830.6
62.5°	17101.8	17383.5	20022.1	25252.5	30240.7	31836.8	32980.7	33064.6	34505.1	38364.2	31681.1
65°	15780.0	16098.7	19001.7	24627.4	31209.2	34601.4	36002.3	36059.1	37467.4	41719.4	33096.8
67.5°	13912.2	14203.8	17077.1	23246.3	31925.7	37959.0	40019.6	40051.6	40404.9	44088.7	33820.7
70°	11730.6	11841.8	14334.7	20395.2	31078.3	41099.2	44422.2	44429.6	43083.1	45605.7	33702.1
72.5°	8242.1	8504.0	10406.3	15439.1	26707.7	40716.3	46707.6	46791.5	44328.3	44839.8	31009.1
75°	5054.9	5331.6	6527.4	9356.4	16943.7	32022.0	43154.8	43737.8	41993.6	39980.0	25331.6
77.5°	3379.8	3483.6	4259.4	5455.1	7676.3	18423.6	33178.3	34275.3	34885.5	29156.1	16200.0
80°	1885.1	2082.8	2824.0	3389.7	3414.4	7320.6	19893.7	20150.6	19409.4	11609.6	4998.1
82.5°	998.2	1106.9	1885.1	1991.4	1862.9	2450.9	7414.4	7421.8	6201.3	3113.0	1484.9
85°	773.3	864.8	1292.1	1215.6	951.2	1087.1	2446.0	2579.4	2110.0	1274.8	484.2
87.5°	385.4	479.3	877.1	770.9	373.1	311.3	874.6	933.9	832.6	499.0	175.4
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°	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7	12901.7
2.5°	12933.8	12956.1	12983.3	12953.6	12943.8	12904.2	12837.5	12822.7	12788.1	12790.5	12810.3
5°	13047.4	13084.5	13069.7	12956.1	12820.1	12629.9	12432.3	12264.3	12153.2	12145.7	12138.3
7.5°	13264.9	13289.6	13173.5	12849.9	12469.3	12029.5	11614.5	11251.3	11031.5	10977.1	10964.7
10°	13605.8	13600.9	13282.2	12629.9	11871.5	11085.8	10418.7	9914.7	9620.7	9534.2	9512.0
12.5°	13986.3	13929.5	13319.3	12229.7	11026.5	9936.9	9092.0	8531.1	8224.8	8126.0	8101.3
15°	14379.2	14238.3	13227.9	11631.8	9988.8	8699.2	7812.1	7293.4	7127.8	7073.4	7063.6
17.5°	14744.8	14473.1	12965.9	10821.4	8805.4	7466.3	6774.5	6566.9	6606.5	6678.2	6680.6
20°	15103.1	14631.2	12546.0	9798.6	7557.7	6450.9	6216.1	6369.4	6557.1	6702.9	6722.6
22.5°	15456.3	14742.4	12004.9	8617.7	6441.0	5880.1	6045.7	6324.8	6539.8	6697.9	6725.1
25°	15752.8	14769.5	11258.8	7357.5	5665.2	5665.2	5964.1	6228.5	6441.0	6596.7	6623.8
27.5°	15861.6	14586.7	10206.2	6191.4	5274.8	5566.4	5850.5	6070.3	6250.8	6416.3	6445.9
30°	15903.6	14248.2	8990.6	5255.0	5114.2	5460.2	5697.3	5885.1	6055.5	6211.2	6238.4
32.5°	15910.9	13840.6	7701.0	4723.9	5003.1	5348.9	5507.0	5672.6	5855.4	5917.2	5927.1
35°	15957.9	13358.8	6342.2	4452.1	4899.3	5245.2	5371.2	5489.8	5193.3	5215.5	5235.3
37.5°	16093.8	12882.0	5205.7	4298.9	4832.6	5190.9	5341.5	4911.7	4679.4	4625.0	4617.7
40°	16348.3	12373.0	4363.2	4175.4	4807.9	5218.0	5151.3	4585.5	4185.3	3886.3	3841.9
42.5°	16701.5	11824.5	3824.6	4093.9	4825.1	5348.9	4886.9	4271.7	3607.1	3414.4	3389.7
45°	17099.3	11248.8	3533.0	4037.0	4884.5	5450.2	4832.6	3854.2	3337.8	3192.0	3179.7
47.5°	17484.8	10544.7	3382.4	4012.4	4966.0	5368.7	4602.8	3725.7	3209.4	3132.8	3140.2
50°	17927.0	9909.8	3290.9	3985.2	5037.6	5316.8	4343.4	3659.0	3160.0	3253.8	3352.6
52.5°	18300.1	9252.6	3209.4	3930.8	5064.8	5225.4	4276.7	3671.4	3160.0	3340.3	3434.2
55°	18742.4	8756.0	3115.5	3817.1	5012.9	4966.0	4229.8	3745.5	3197.0	3083.3	3093.2
57.5°	19313.0	8592.9	3011.7	3639.3	4840.0	4588.0	4207.5	3817.1	3174.8	3103.2	3127.9
60°	20103.6	8765.9	2969.7	3407.0	4570.7	4291.5	4209.9	3780.1	3019.1	2895.6	2898.0
62.5°	20857.2	8958.6	2967.3	3261.3	4239.7	4027.2	4153.1	3659.0	2940.1	2868.4	2895.6
65°	21104.3	8763.3	2848.7	3098.2	3866.6	3710.9	4049.3	3530.6	2880.8	2772.1	2767.2
67.5°	20773.2	8158.1	2609.0	2833.9	3439.2	3342.8	3913.5	3377.4	2786.9	2697.9	2683.1
70°	19789.9	6806.6	2312.6	2485.5	2952.4	2927.8	3698.5	3199.5	2660.9	2584.3	2520.0
72.5°	17143.8	4849.9	1949.4	2067.9	2404.0	2483.0	3402.1	2967.3	2483.0	2317.5	2218.7
75°	14080.2	3589.8	1601.0	1625.6	1825.8	2040.7	2994.5	2695.4	2273.0	1991.4	1914.8
77.5°	8622.6	2196.4	1274.8	1284.7	1309.5	1628.2	2465.7	2391.6	2006.2	1660.3	1605.9
80°	2791.8	1198.2	921.6	968.5	894.4	1193.3	1907.3	2035.8	1722.1	1388.5	1329.2
82.5°	1062.3	699.2	622.6	654.7	620.1	800.5	1391.0	1630.6	1410.7	1141.4	928.9
85°	513.9	395.3	368.1	412.6	383.0	410.2	889.4	1200.8	1069.8	743.7	691.8
87.5°	182.9	175.4	140.8	190.2	163.0	145.8	271.7	605.3	706.6	511.4	457.1
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)