

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: P322354

Luminaire Tested: **GLEON-SA0A-827-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0A-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24710 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

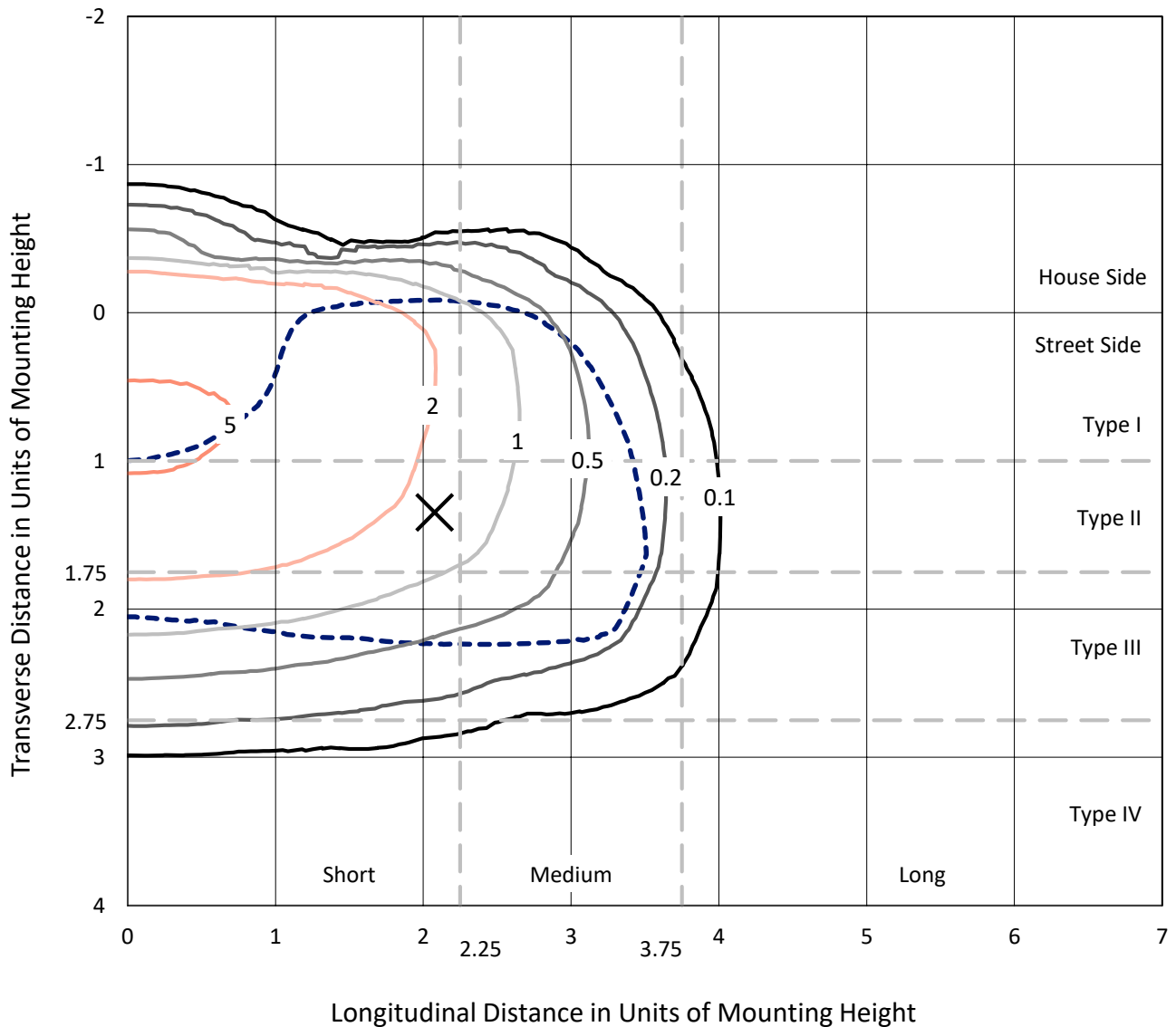
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

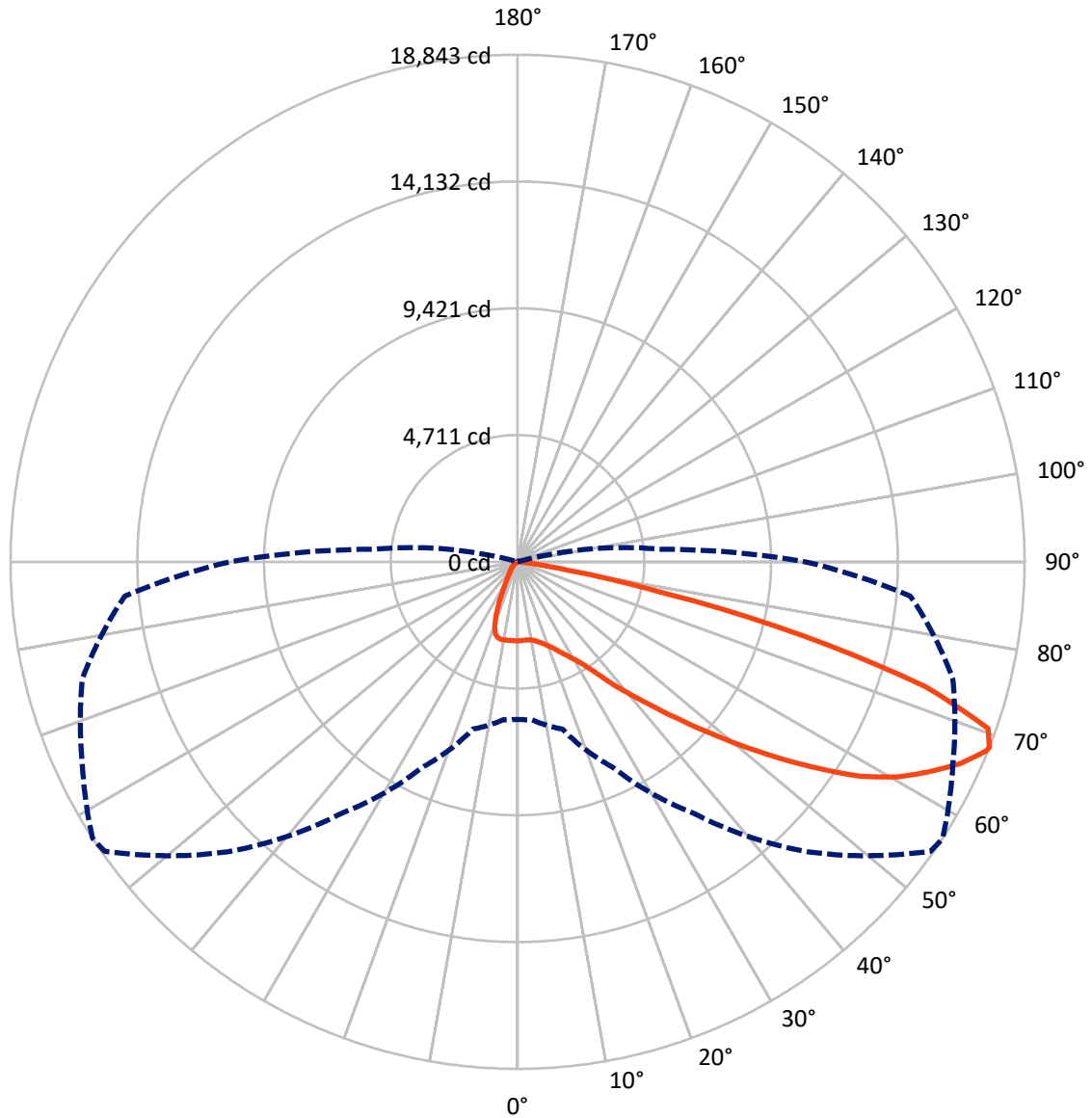
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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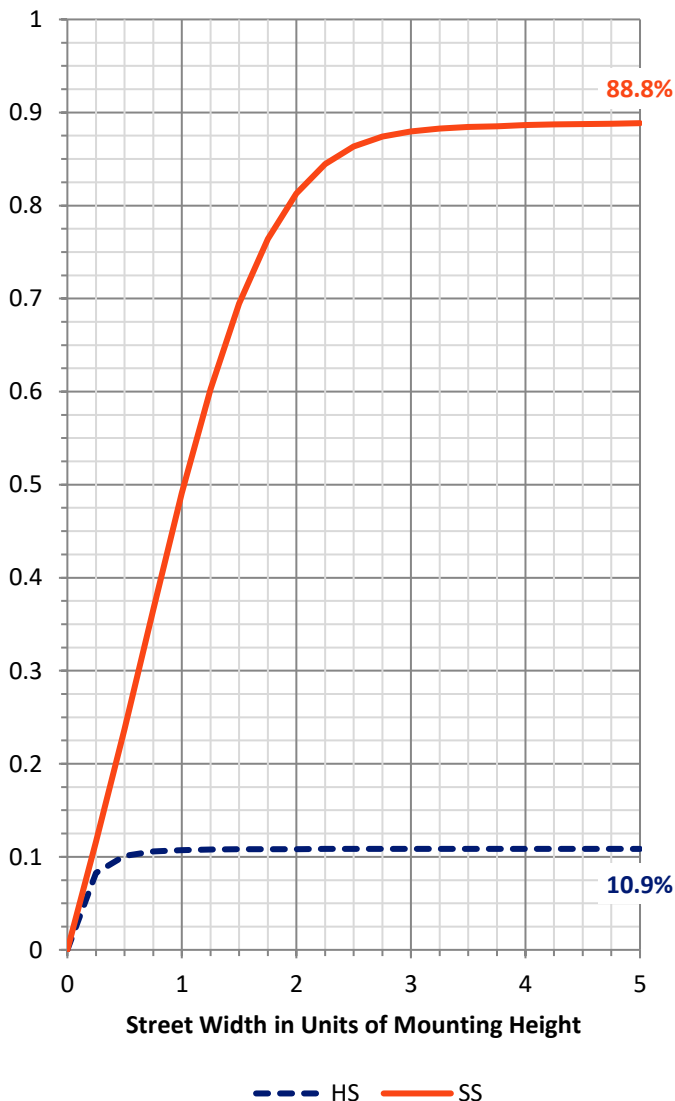
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2709.6	0.0	2709.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	22000.4	0.0	22000.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	24710.0	0.0	24710.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.8	1.1
10°-20°	761.4	3.1
20°-30°	1313.6	5.3
30°-40°	2267.2	9.2
40°-50°	3878.0	15.7
50°-60°	6204.5	25.1
60°-70°	7168.6	29.0
70°-80°	2739.2	11.1
80°-90°	102.7	0.4
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°	24710.0	100.0
0°-180°	24710.0	100.0

Coefficient of Utilization



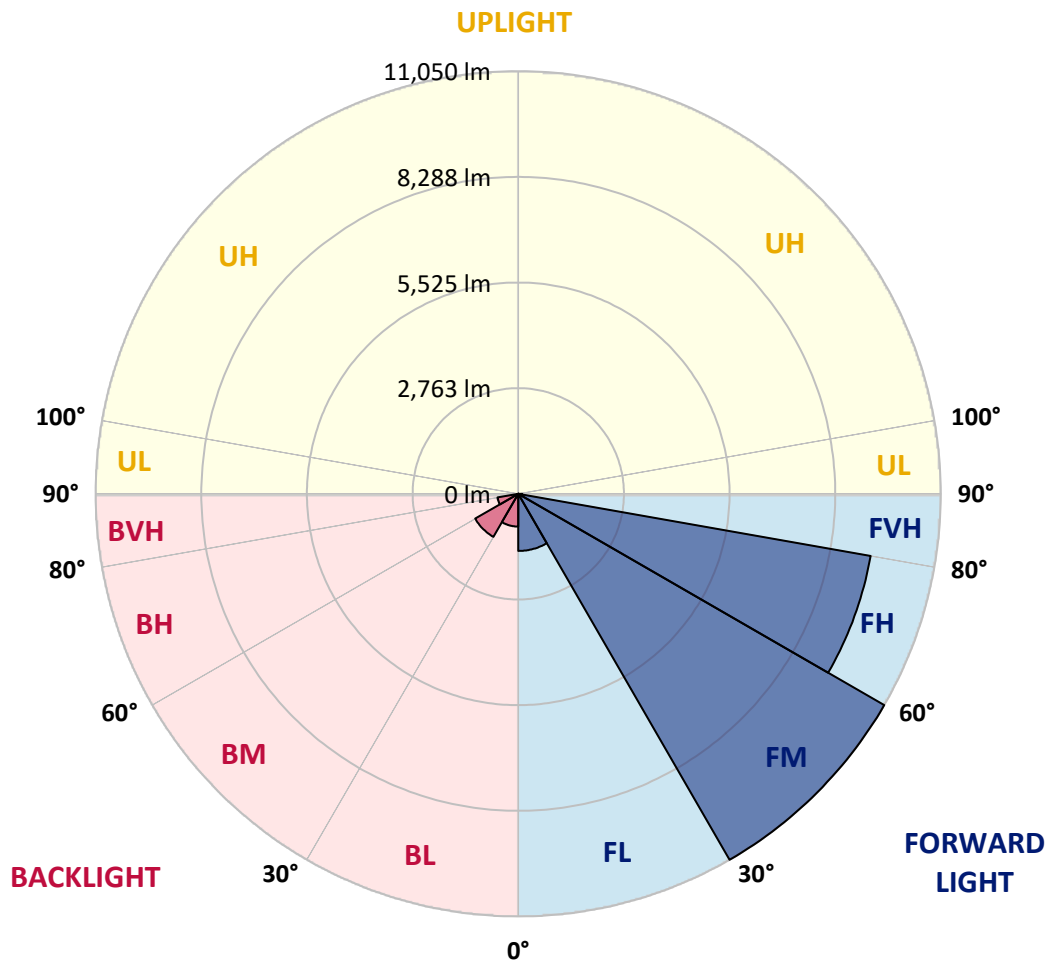
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1493.5	6.0			
FM (30°-60°)	11050.1	44.7			
FH (60°-80°)	9356.0	37.9			G4/12000
FVH (80°-90°)	100.8	0.4			G2/225
BL (0°-30°)	856.3	3.5	B2/1000		
BM (30°-60°)	1299.6	5.3	B2/2500		
BH (60°-80°)	551.8	2.2	B2/1000		G2/1000
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2
2.5°	2867.3	2880.1	2889.5	2895.3	2902.3	2917.5	2922.2	2929.2	2932.7	2932.7	2940.9
5°	2753.9	2767.9	2787.8	2804.2	2836.9	2878.9	2909.3	2921.0	2942.0	2960.7	2971.3
7.5°	2648.8	2665.1	2688.5	2727.1	2783.1	2850.9	2914.0	2930.4	2971.3	3011.0	3030.8
10°	2581.0	2593.9	2624.2	2679.2	2752.8	2847.4	2936.2	2956.1	3026.2	3092.8	3130.2
12.5°	2557.6	2569.3	2600.9	2662.8	2753.9	2864.9	2987.6	3016.8	3119.6	3216.6	3269.2
15°	2591.5	2593.9	2627.7	2686.2	2776.1	2908.2	3072.9	3108.0	3237.6	3363.8	3429.3
17.5°	2722.4	2711.9	2729.4	2755.1	2826.4	2965.4	3162.9	3215.4	3388.4	3536.8	3598.7
20°	3049.5	3049.5	3009.8	2939.7	2940.9	3054.2	3284.4	3344.0	3555.5	3727.2	3783.3
22.5°	3609.2	3598.7	3519.2	3347.5	3189.7	3207.3	3432.8	3509.9	3756.4	3939.9	3958.6
25°	4282.2	4269.3	4146.7	3904.8	3631.4	3455.0	3633.7	3722.5	3995.9	4158.4	4119.8
27.5°	4994.9	4984.4	4862.9	4562.6	4173.5	3849.9	3873.3	3957.4	4240.1	4400.2	4277.5
30°	5685.5	5689.0	5568.6	5260.2	4819.7	4353.5	4177.0	4226.1	4477.3	4639.7	4464.5
32.5°	6342.1	6346.8	6242.8	5898.1	5486.8	4938.8	4597.7	4584.8	4753.1	4913.1	4712.2
35°	6927.5	6939.2	6867.9	6600.3	6164.5	5590.8	5143.3	5112.9	5144.5	5325.6	5091.9
37.5°	7491.8	7498.8	7445.1	7219.6	6855.0	6307.0	5832.7	5789.4	5721.7	5860.7	5593.2
40°	8109.9	8092.4	8030.4	7826.0	7512.8	7098.1	6573.4	6498.7	6380.7	6504.5	6252.1
42.5°	8684.7	8664.9	8675.4	8444.1	8180.0	7911.3	7436.9	7308.4	7239.4	7382.0	7060.7
45°	9403.3	9392.8	9427.9	9226.9	9013.1	8817.9	8426.5	8286.3	8255.9	8423.0	8038.6
47.5°	10112.5	10138.2	10246.9	10161.6	10075.1	9903.4	9474.6	9411.5	9430.2	9632.3	9070.3
50°	10703.7	10734.1	11032.1	11130.2	11255.2	11154.8	10724.8	10686.2	10759.8	10942.1	10180.3
52.5°	11131.4	11193.3	11563.7	12015.9	12471.5	12539.3	12110.5	12075.5	12174.8	12202.8	11037.9
55°	11428.2	11483.1	11902.5	12729.8	13657.5	13949.6	13683.2	13547.6	13529.0	13252.0	11939.9
57.5°	11480.7	11474.9	12077.8	13191.3	14587.5	15341.1	15172.9	15039.7	14656.5	14221.8	12974.0
60°	11184.0	11217.8	11917.7	13351.4	15171.7	16393.9	16406.7	16233.8	15636.8	15164.7	13976.4
62.5°	10270.3	10408.1	11115.0	12931.9	15164.7	16818.0	17311.1	17179.0	16465.2	15937.0	14993.0
65°	8788.7	8837.8	9512.0	11494.8	14140.0	16640.4	18125.5	18076.4	17211.8	16687.1	15515.2
67.5°	6418.0	6311.7	7019.8	9051.6	11971.5	15605.2	18709.7	18771.6	17787.8	16841.4	14959.1
68°	5857.2	5888.8	6440.2	8447.6	11403.6	15239.5	18748.2	18842.9	17845.0	16740.9	14655.3
70°	3491.2	3551.9	4043.8	5816.3	8675.4	13170.3	18332.3	18548.4	17503.9	15704.5	12676.0
72.5°	891.5	963.9	1429.0	2603.2	4955.2	9279.5	15475.5	15841.2	15197.4	12740.3	8557.4
75°	366.9	385.6	510.6	857.6	1846.1	4180.5	10200.2	10983.0	10535.5	7627.3	3867.4
77.5°	253.5	266.4	328.3	475.5	799.2	1417.3	5000.8	5566.3	5014.8	2603.2	843.6
80°	182.3	192.8	234.8	316.6	459.2	505.9	1629.9	1884.6	1496.7	571.3	209.1
82.5°	108.7	116.8	175.3	225.5	279.2	241.9	405.4	460.4	433.5	283.9	93.5
85°	53.7	63.1	118.0	161.2	150.7	101.7	123.9	137.9	170.6	172.9	50.2
87.5°	3.5	7.0	68.9	97.0	42.1	23.4	36.2	44.4	60.8	85.3	21.0
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°	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2	2936.2
2.5°	2944.4	2945.5	2937.4	2933.9	2936.2	2922.2	2916.3	2918.7	2918.7	2922.2	2916.3
5°	2973.6	2973.6	2959.6	2940.9	2930.4	2903.5	2886.0	2881.3	2877.8	2875.4	2870.8
7.5°	3036.7	3029.7	3005.1	2964.2	2929.2	2870.8	2826.4	2803.0	2791.3	2786.6	2783.1
10°	3138.3	3125.5	3084.6	3008.6	2928.0	2824.0	2727.1	2658.1	2600.9	2577.5	2563.5
12.5°	3275.0	3256.3	3187.4	3061.2	2919.8	2728.2	2517.9	2315.8	2127.7	2050.5	2012.0
15°	3432.8	3405.9	3297.2	3105.6	2871.9	2512.1	2055.2	1701.2	1440.6	1342.5	1300.4
17.5°	3592.8	3557.8	3393.0	3133.7	2728.2	2064.6	1441.8	1089.0	914.9	868.1	851.8
20°	3754.1	3702.7	3476.0	3112.6	2403.4	1488.5	951.1	795.7	745.4	731.4	726.7
22.5°	3907.1	3827.7	3550.8	3030.8	1903.3	999.0	752.5	703.4	687.0	678.8	676.5
25°	4040.3	3929.3	3616.2	2778.5	1347.2	754.8	677.7	661.3	640.3	625.1	626.3
27.5°	4165.4	4031.0	3655.9	2362.5	898.5	645.0	627.4	605.2	566.7	544.5	544.5
30°	4316.1	4166.5	3685.1	1818.0	661.3	570.2	556.2	522.3	469.7	440.5	440.5
32.5°	4542.8	4372.2	3666.5	1275.9	548.0	501.2	468.5	421.8	364.5	336.5	335.3
35°	4889.8	4690.0	3533.3	836.6	483.7	435.8	383.2	326.0	275.7	252.4	251.2
37.5°	5357.1	5115.3	3234.1	598.2	433.5	375.1	312.0	248.9	211.5	196.3	195.1
40°	5963.5	5609.5	2806.5	484.9	386.7	316.6	240.7	192.8	167.1	155.4	156.6
42.5°	6691.5	6138.8	2293.6	418.3	341.2	260.6	188.1	151.9	135.5	127.4	125.0
45°	7500.0	6661.1	1756.1	372.7	295.6	210.3	147.2	120.3	107.5	102.8	102.8
47.5°	8389.1	7169.3	1285.2	333.0	246.5	162.4	118.0	98.1	87.6	84.1	83.0
50°	9196.5	7522.2	926.5	290.9	202.1	128.5	95.8	81.8	74.8	70.1	70.1
52.5°	9869.5	7633.2	682.3	245.4	163.6	102.8	79.5	70.1	63.1	59.6	59.6
55°	10461.9	7587.6	507.1	202.1	132.0	84.1	67.8	59.6	53.7	50.2	50.2
57.5°	11029.7	7440.4	378.6	164.7	106.3	67.8	57.3	50.2	44.4	42.1	42.1
60°	11493.6	7195.0	281.6	133.2	85.3	54.9	47.9	40.9	36.2	32.7	32.7
62.5°	11869.8	6924.0	206.8	109.8	67.8	43.2	37.4	33.9	26.9	23.4	23.4
65°	11872.2	6474.1	155.4	91.1	52.6	33.9	28.0	26.9	17.5	14.0	12.9
67.5°	11013.4	5581.5	119.2	78.3	40.9	25.7	21.0	22.2	9.3	5.8	4.7
68°	10701.4	5354.8	112.2	77.1	38.6	24.5	19.9	22.2	8.2	4.7	3.5
70°	9022.4	4260.0	90.0	74.8	33.9	18.7	16.4	22.2	7.0	3.5	2.3
72.5°	5770.7	2472.3	66.6	59.6	25.7	14.0	10.5	19.9	7.0	2.3	1.2
75°	2456.0	766.5	45.6	42.1	15.2	10.5	7.0	12.9	4.7	1.2	0.0
77.5°	517.6	172.9	26.9	25.7	10.5	7.0	4.7	3.5	1.2	0.0	0.0
80°	133.2	50.2	14.0	12.9	5.8	3.5	2.3	0.0	0.0	0.0	0.0
82.5°	42.1	19.9	8.2	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.0	11.7	4.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.7	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)