

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: P528583

Luminaire Tested: **GALN-SA3C-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10143 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 160
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



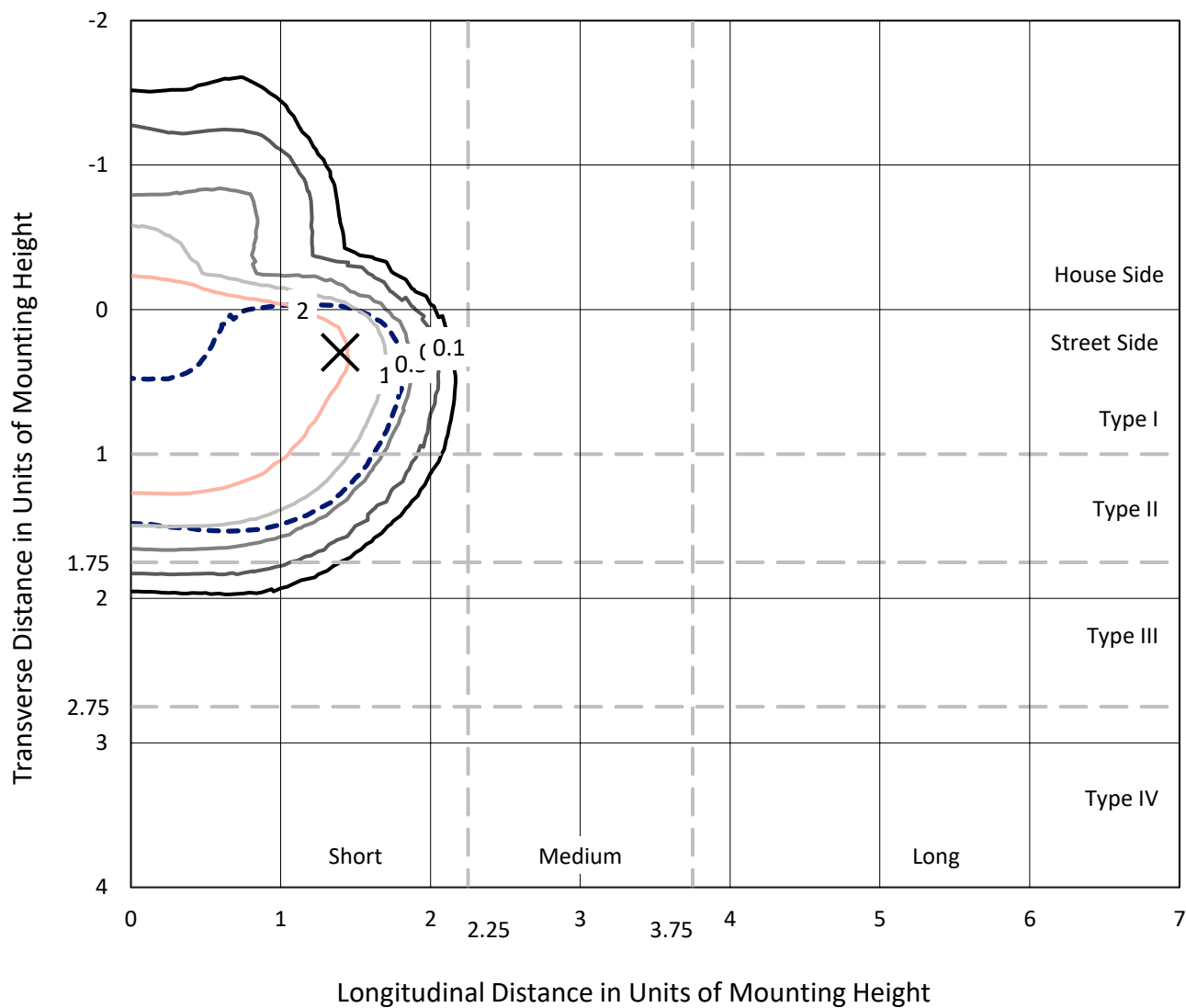
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

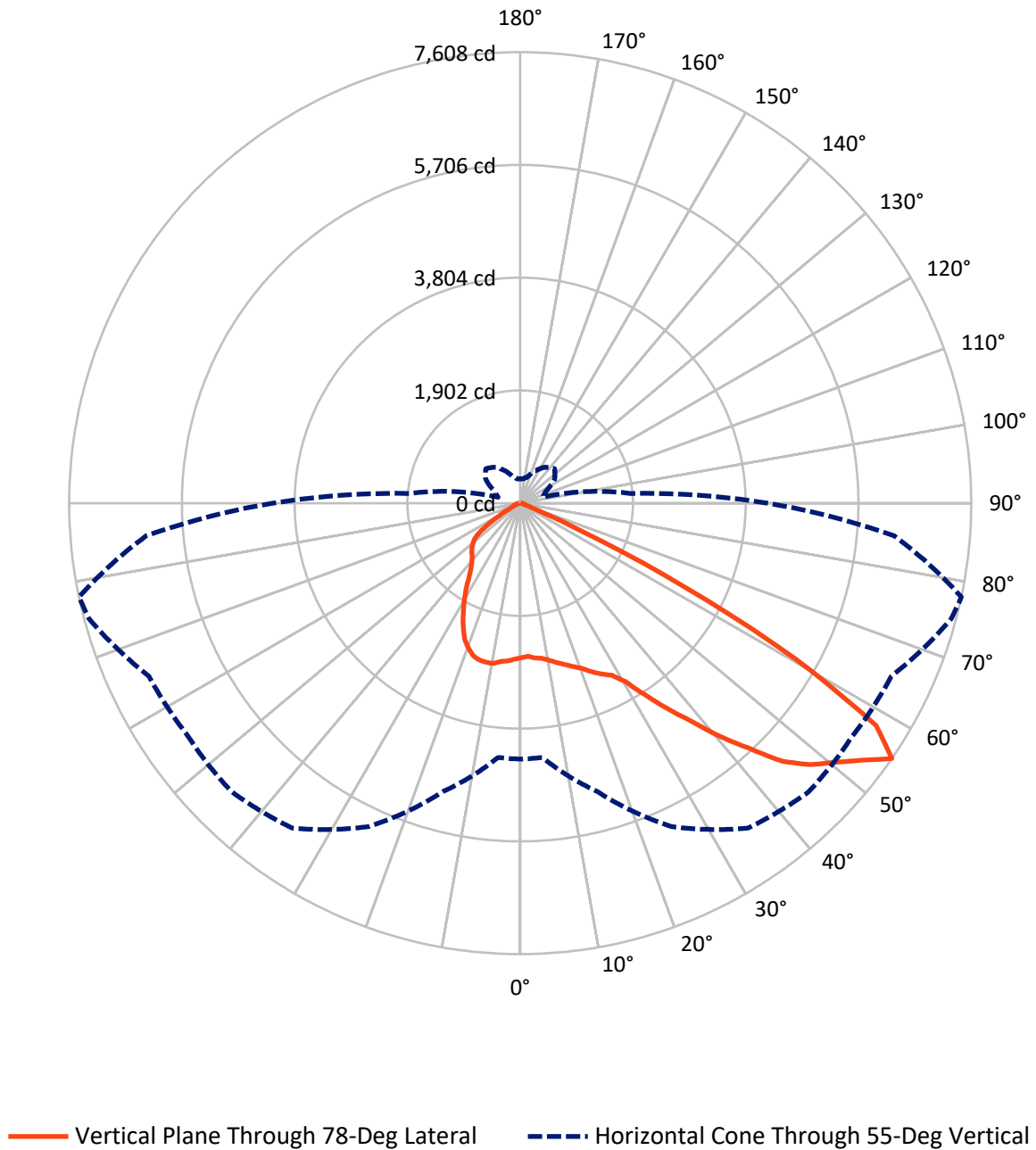


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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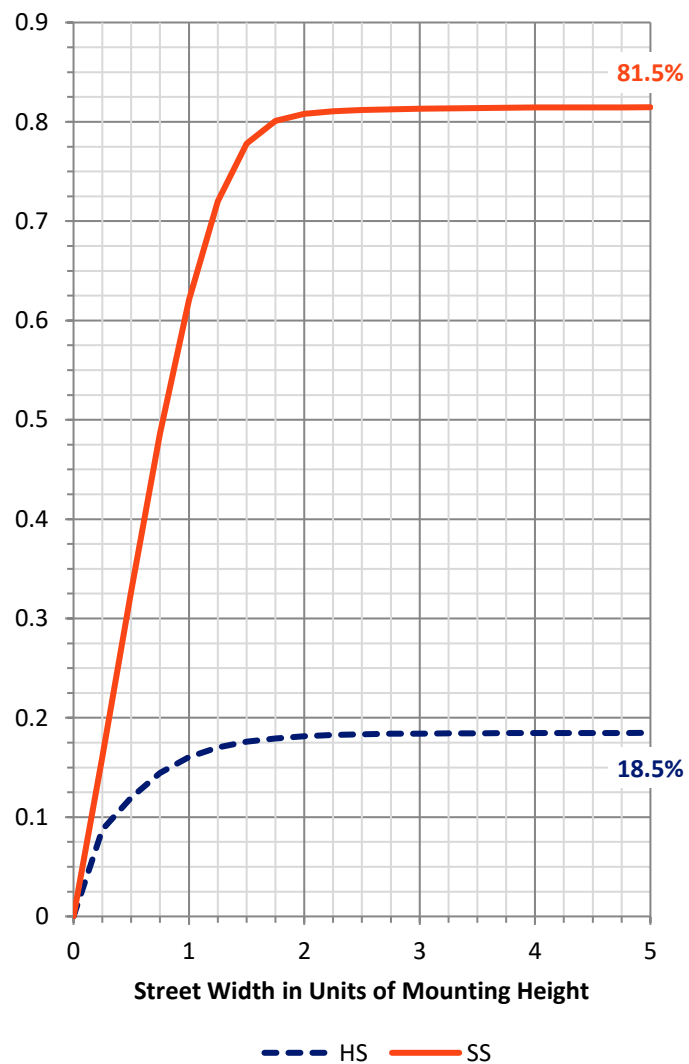
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1883.9	0.0	1883.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8259.0	0.0	8259.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	10143.0	0.0	10143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.5	2.3
10°-20°	615.4	6.1
20°-30°	1078.7	10.6
30°-40°	1778.6	17.5
40°-50°	2588.1	25.5
50°-60°	2932.6	28.9
60°-70°	838.5	8.3
70°-80°	65.1	0.6
80°-90°	13.5	0.1
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°	10143.0	100.0
0°-180°	10143.0	100.0

Coefficient of Utilization



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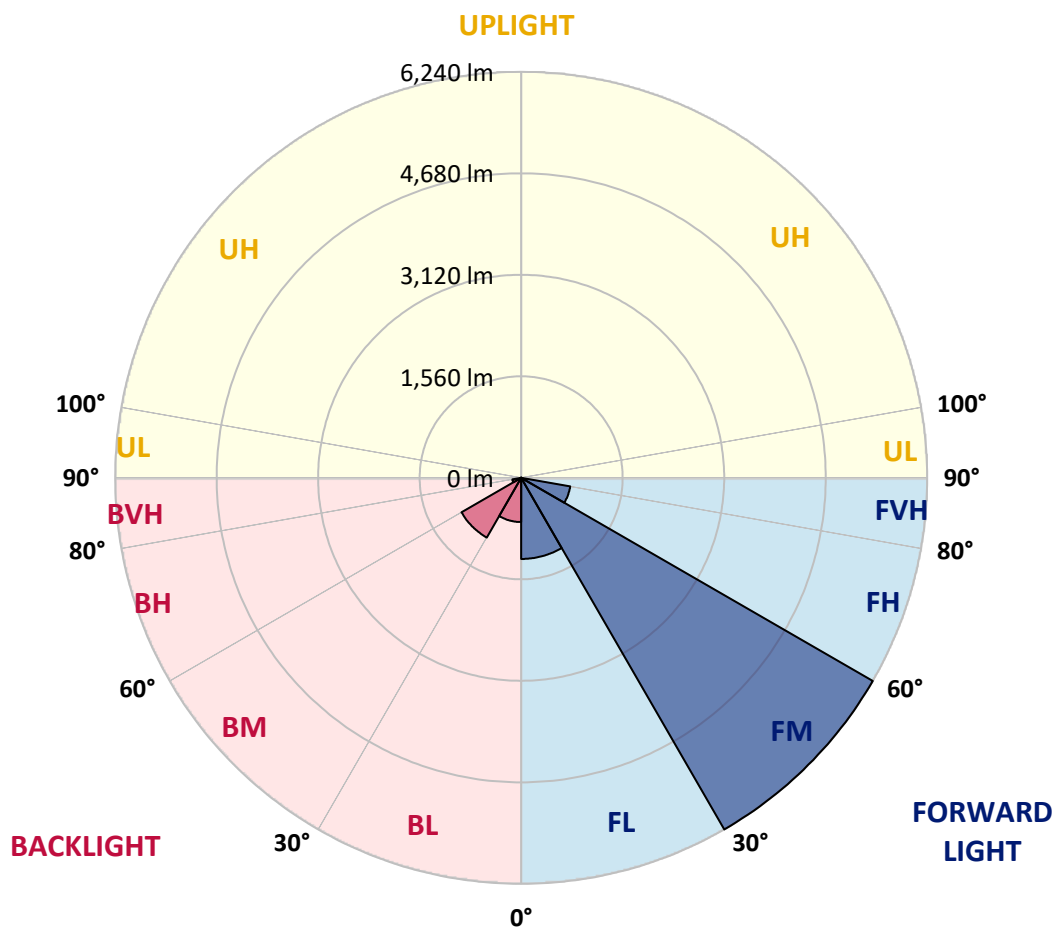
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1246.9	12.3			
FM	(30°-60°)	6239.5	61.5			
FH	(60°-80°)	766.1	7.6			G1/1800
FVH	(80°-90°)	6.6	0.1			G0/10
BL	(0°-30°)	679.7	6.7	B2/1000		
BM	(30°-60°)	1059.7	10.4	B2/2500		
BH	(60°-80°)	137.5	1.4	B1/500		G1/500
BVH	(80°-90°)	6.9	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8
2.5°	2451.8	2475.4	2479.0	2508.0	2506.2	2555.2	2569.7	2571.5	2604.1	2587.8	2629.5
5°	2382.9	2370.2	2364.8	2415.5	2430.1	2473.6	2509.8	2531.6	2598.7	2622.3	2665.8
7.5°	2321.2	2321.2	2324.9	2370.2	2364.8	2421.0	2459.1	2526.2	2624.1	2644.0	2696.6
10°	2261.4	2239.6	2266.8	2314.0	2353.9	2379.3	2459.1	2522.5	2636.8	2694.8	2767.4
12.5°	2230.6	2241.5	2245.1	2279.5	2323.1	2399.2	2442.7	2547.9	2727.5	2761.9	2839.9
15°	2424.6	2402.8	2350.3	2319.4	2355.7	2392.0	2500.8	2607.8	2774.6	2823.6	2910.6
17.5°	2649.5	2631.3	2587.8	2504.4	2422.8	2489.9	2575.1	2673.1	2825.4	2897.9	3026.7
20°	2943.3	2914.2	2870.7	2707.5	2636.8	2564.2	2654.9	2771.0	2908.8	2974.1	3106.5
22.5°	3293.3	3293.3	3195.3	2997.7	2850.8	2781.9	2819.9	2887.0	3001.3	3090.2	3220.7
25°	3657.8	3646.9	3558.0	3353.1	3104.7	3023.1	3066.6	3113.7	3144.6	3193.5	3280.6
27.5°	4074.9	4011.4	3899.0	3672.3	3452.8	3295.1	3342.2	3300.5	3262.4	3287.8	3413.0
30°	4357.8	4397.7	4254.4	4036.8	3830.1	3654.1	3663.2	3626.9	3452.8	3489.1	3563.5
32.5°	4651.6	4676.9	4597.1	4477.5	4270.7	4065.8	3991.4	3960.6	3830.1	3846.4	3773.8
35°	4896.4	4945.3	4874.6	4822.0	4762.2	4597.1	4392.2	4492.0	4281.6	4241.7	4053.1
37.5°	5121.2	5106.7	5190.2	5135.7	5123.1	5007.0	4782.1	4802.1	4660.6	4651.6	4433.9
40°	5322.5	5326.2	5440.4	5465.8	5415.0	5208.3	4881.9	5039.6	5153.9	5164.8	4885.5
42.5°	5489.4	5538.3	5636.3	5841.2	5765.0	5420.5	4985.2	5157.5	5581.9	5649.0	5313.5
45°	5634.5	5734.2	5855.7	6038.9	5995.3	5721.5	5242.7	5400.5	6038.9	6214.8	5716.1
47.5°	5643.5	5774.1	5906.5	6178.5	6232.9	5882.9	5509.3	5785.0	6401.6	6592.0	6009.8
50°	5607.3	5676.2	5940.9	6236.5	6359.8	6145.9	5882.9	6107.8	6753.4	6873.1	6158.5
52.5°	5177.5	5230.1	5761.4	6290.9	6588.3	6443.3	6378.0	6557.5	7112.4	7201.3	6298.2
55°	4316.1	4307.0	5037.8	6017.1	6693.5	6883.9	6844.0	6907.5	7527.7	7607.5	6332.6
57.5°	2952.3	3117.4	3748.4	5010.6	6049.7	6780.6	6822.3	6717.1	7043.5	7074.4	5520.2
60°	1592.2	1661.1	2168.9	3344.0	4606.2	5525.6	5634.5	5444.0	5418.7	5331.6	3940.7
62.5°	632.9	667.4	955.7	1655.7	2509.8	3358.5	3592.5	3514.5	3347.7	3119.2	2040.2
65°	301.0	322.8	475.1	774.4	1113.5	1400.0	1633.9	1706.5	1258.5	1133.4	672.8
67.5°	204.9	221.2	346.4	442.5	397.2	415.3	540.4	502.3	295.6	252.1	186.8
70°	156.0	166.8	277.5	301.0	177.7	125.1	139.6	130.6	121.5	123.3	121.5
72.5°	110.6	119.7	203.1	177.7	78.0	58.0	74.4	88.9	88.9	88.9	87.0
75°	67.1	76.2	117.9	68.9	30.8	30.8	47.2	59.8	63.5	65.3	61.7
77.5°	34.5	43.5	39.9	19.9	19.9	23.6	34.5	41.7	45.3	45.3	43.5
80°	7.3	7.3	7.3	10.9	19.9	25.4	34.5	38.1	43.5	43.5	39.9
82.5°	0.0	1.8	5.4	10.9	18.1	23.6	32.6	38.1	43.5	45.3	41.7
85°	0.0	1.8	3.6	7.3	12.7	14.5	12.7	10.9	10.9	10.9	10.9
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8	2607.8
2.5°	2633.2	2638.6	2629.5	2627.7	2620.5	2642.2	2589.6	2576.9	2609.6	2578.8	2586.0
5°	2667.6	2680.3	2664.0	2636.8	2596.9	2535.2	2482.6	2413.7	2381.1	2357.5	2353.9
7.5°	2693.0	2702.1	2685.8	2598.7	2479.0	2323.1	2207.0	2121.8	2054.7	2034.7	2002.1
10°	2796.4	2798.2	2716.6	2524.4	2290.4	2085.5	1907.8	1777.2	1710.1	1668.4	1650.3
12.5°	2865.3	2861.7	2696.6	2377.5	2065.5	1793.5	1590.4	1432.6	1371.0	1351.0	1338.3
15°	2952.3	2932.4	2649.5	2226.9	1775.4	1481.6	1298.4	1189.6	1184.2	1171.5	1184.2
17.5°	3021.2	2965.0	2580.6	1953.1	1497.9	1220.5	1100.8	1108.0	1122.5	1135.2	1137.0
20°	3133.7	3017.6	2422.8	1713.7	1240.4	1046.4	1044.6	1077.2	1113.5	1128.0	1142.5
22.5°	3218.9	3039.4	2254.1	1458.0	1030.1	975.6	1006.5	1055.4	1082.6	1097.1	1118.9
25°	3249.7	2979.5	2029.3	1202.3	928.5	943.0	990.2	1022.8	1057.3	1073.6	1064.5
27.5°	3280.6	2948.7	1760.9	990.2	874.1	921.2	961.1	993.8	1004.7	1026.4	1040.9
30°	3354.9	2841.7	1519.7	856.0	846.9	906.7	935.8	946.6	975.6	988.3	988.3
32.5°	3414.8	2800.0	1264.0	792.5	843.3	914.0	917.6	917.6	921.2	912.2	908.5
35°	3538.1	2656.7	1035.5	754.4	841.5	915.8	924.9	894.0	810.6	778.0	768.9
37.5°	3690.4	2564.2	866.8	745.3	854.1	937.6	952.1	836.0	727.2	674.6	665.5
40°	3875.4	2499.0	756.2	741.7	883.2	988.3	944.8	790.7	649.2	573.1	569.4
42.5°	4091.2	2439.1	681.9	739.9	919.4	1040.9	937.6	752.6	569.4	518.7	525.9
45°	4263.5	2406.5	631.1	727.2	932.1	1071.8	943.0	685.5	536.8	504.1	507.8
47.5°	4397.7	2337.6	589.4	705.4	930.3	1082.6	894.0	658.3	520.5	529.5	538.6
50°	4401.3	2245.1	536.8	658.3	903.1	1062.7	837.8	632.9	516.8	554.9	573.1
52.5°	4352.3	2114.5	480.6	591.2	839.6	993.8	787.0	622.0	500.5	496.9	518.7
55°	4178.2	1869.7	386.3	478.8	709.1	819.7	741.7	602.1	451.6	409.8	413.5
57.5°	3376.7	1340.2	284.7	342.7	502.3	600.3	669.2	593.0	406.2	348.2	350.0
60°	2090.9	759.8	208.5	233.9	310.1	364.5	542.2	551.3	362.7	293.8	290.2
62.5°	1073.6	375.4	161.4	165.0	190.4	214.0	371.8	462.4	328.2	279.3	279.3
65°	359.1	185.0	141.5	126.9	126.9	132.4	224.9	321.0	277.5	233.9	233.9
67.5°	154.1	137.8	123.3	110.6	101.6	96.1	126.9	186.8	206.7	177.7	170.5
70°	119.7	116.1	107.0	92.5	79.8	72.5	74.4	96.1	117.9	114.2	110.6
72.5°	88.9	88.9	85.2	72.5	61.7	52.6	49.0	50.8	56.2	58.0	59.8
75°	61.7	63.5	63.5	56.2	45.3	38.1	32.6	27.2	21.8	18.1	16.3
77.5°	41.7	43.5	47.2	41.7	34.5	25.4	19.9	14.5	9.1	3.6	3.6
80°	36.3	41.7	45.3	41.7	36.3	27.2	19.9	10.9	5.4	0.0	0.0
82.5°	38.1	41.7	47.2	39.9	34.5	25.4	19.9	12.7	5.4	1.8	0.0
85°	9.1	9.1	10.9	12.7	16.3	18.1	14.5	9.1	5.4	1.8	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)