

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: P651635

Luminaire Tested: **GALN-SA9D-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44091.1 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

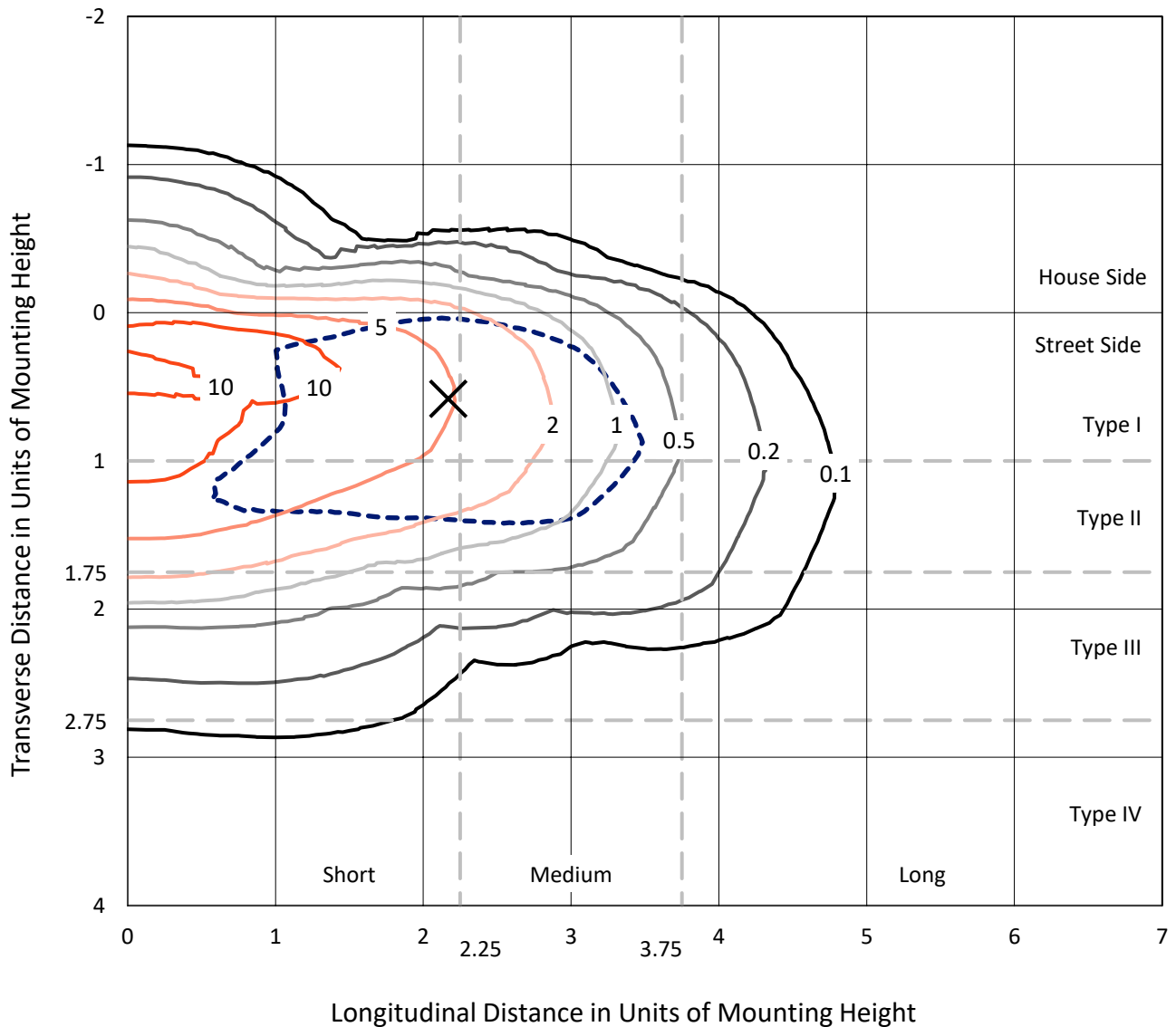
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

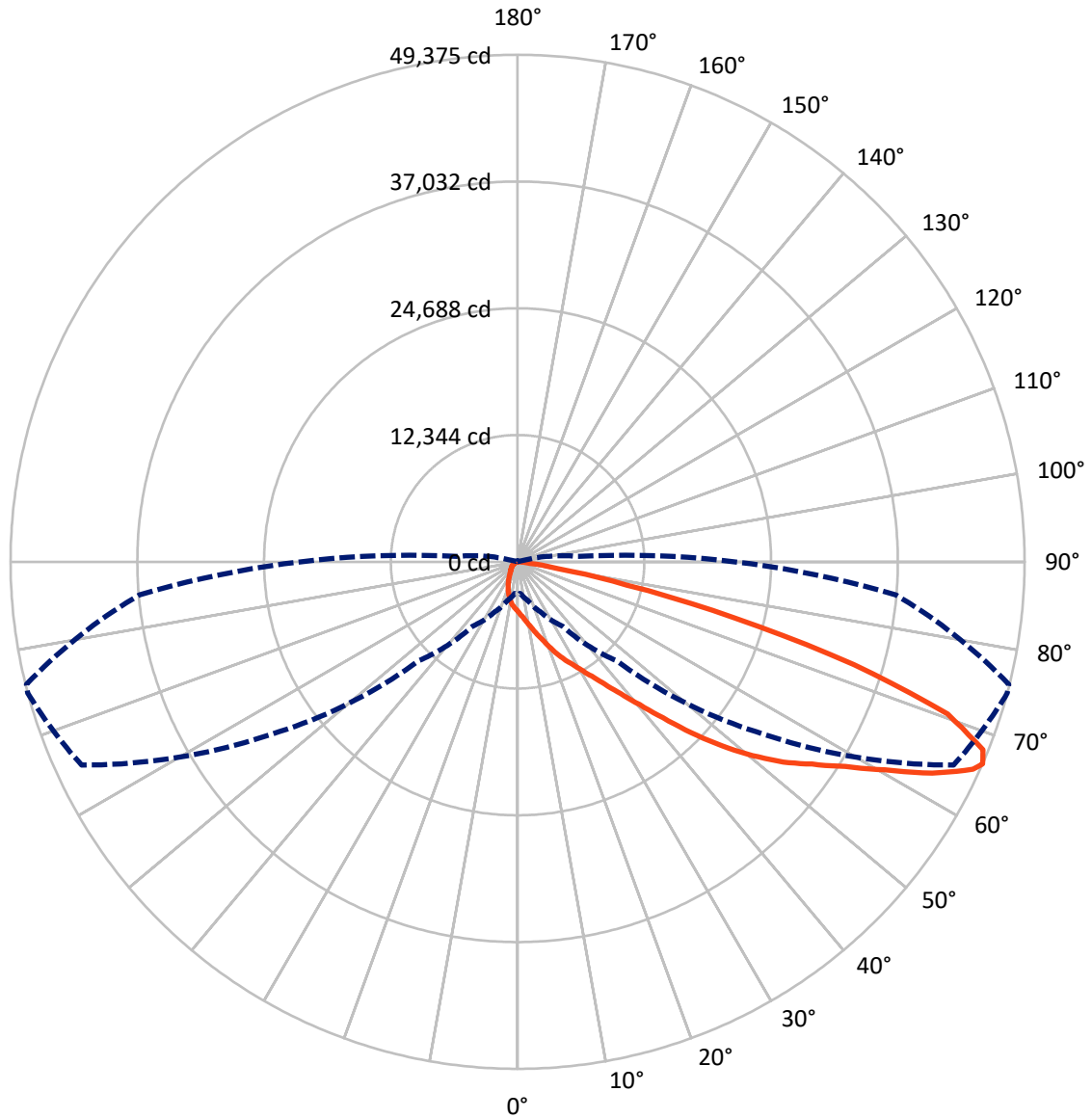
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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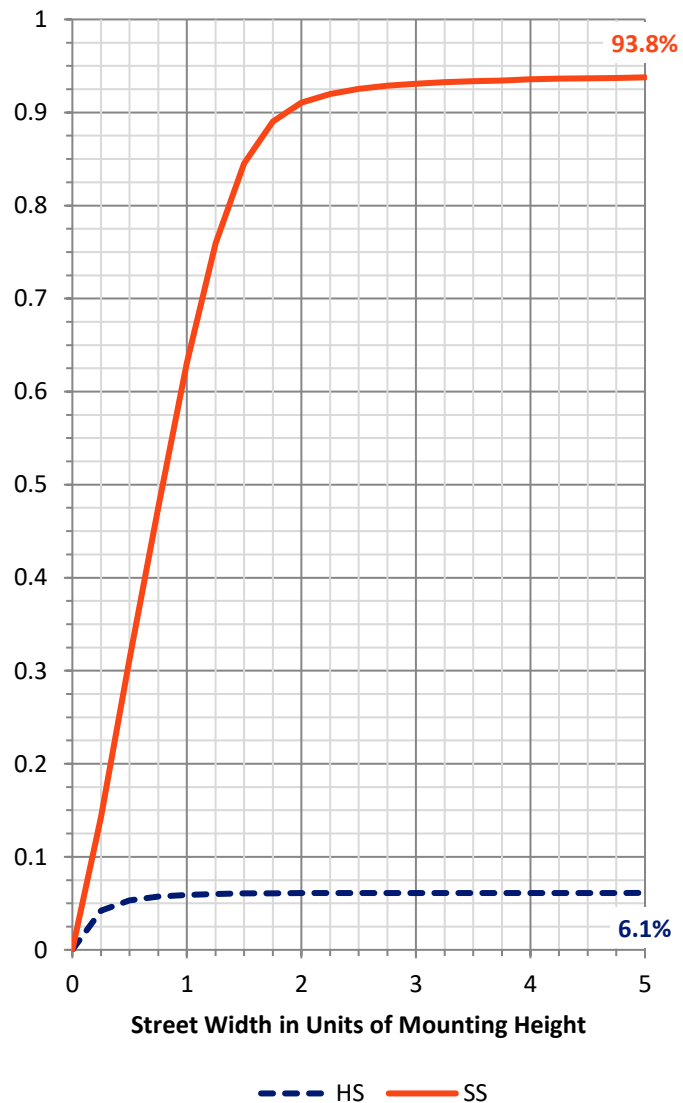
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2722.0	0.0	2722.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	41369.1	0.0	41369.1
	% Fixture	93.8	0.0	93.8
Total	Lumens	44091.1	0.0	44091.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.1	1.1
10°-20°	1368.7	3.1
20°-30°	2363.5	5.4
30°-40°	4263.2	9.7
40°-50°	7701.7	17.5
50°-60°	12006.9	27.2
60°-70°	11406.1	25.9
70°-80°	4274.7	9.7
80°-90°	241.2	0.5
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°	44091.1	100.0
0°-180°	44091.1	100.0

Coefficient of Utilization

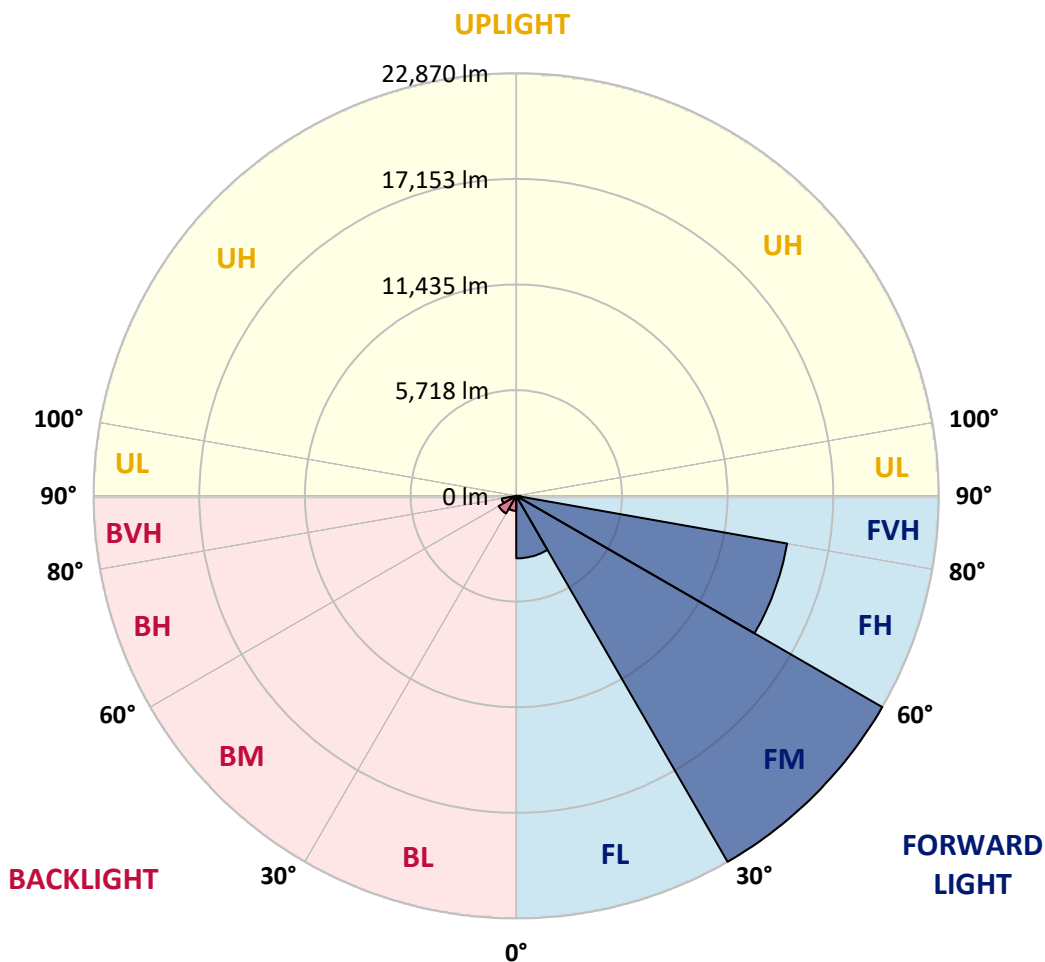


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3384.4	7.7			
FM (30°-60°)	22870.0	51.9			
FH (60°-80°)	14886.0	33.8			G5
FVH (80°-90°)	228.7	0.5			G3/500
BL (0°-30°)	812.9	1.8	B2/1000		
BM (30°-60°)	1101.8	2.5	B2/2500		
BH (60°-80°)	794.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	12.5	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8
2.5°	5760.8	5689.0	5711.8	5679.2	5604.3	5493.4	5395.6	5255.4	5115.2	5092.4	4935.9
5°	6520.4	6500.8	6474.7	6380.2	6328.0	6158.5	5956.3	5715.1	5425.0	5372.7	5089.1
7.5°	7038.7	7028.9	7041.9	6993.1	6947.4	6794.2	6579.1	6249.7	5799.9	5770.5	5297.8
10°	7208.2	7234.4	7283.2	7361.4	7433.2	7384.3	7221.2	6810.5	6285.6	6200.9	5535.8
12.5°	7110.4	7139.8	7257.2	7465.8	7697.3	7831.0	7765.7	7465.8	6800.7	6732.3	5803.2
15°	6859.4	6895.3	7061.5	7384.3	7798.3	8176.5	8339.5	8124.4	7400.6	7289.8	6125.8
17.5°	6487.7	6540.0	6777.9	7205.0	7772.3	8424.3	8884.0	8812.3	8039.6	7935.3	6478.0
20°	6207.3	6246.5	6448.6	6937.7	7661.4	8561.2	9402.4	9604.5	8828.6	8649.3	6892.0
22.5°	6393.2	6406.2	6474.7	6768.1	7462.5	8597.1	9858.8	10429.3	9666.5	9506.7	7322.3
25°	7302.8	7172.4	7103.9	7038.7	7420.1	8564.5	10272.8	11290.0	10501.1	10331.5	7749.4
27.5°	8737.2	8678.6	8333.0	7870.1	7782.0	8606.9	10546.6	12105.0	11286.7	11104.1	8166.7
30°	10298.9	10197.8	9985.9	9307.8	8626.4	8906.8	10745.5	12897.2	12215.9	11974.7	8548.2
32.5°	11733.4	11798.6	11482.3	10784.6	9995.7	9545.8	11003.1	13761.2	13281.9	12982.0	8991.6
35°	13405.9	13536.2	13050.5	12382.1	11459.6	10699.9	11505.1	14736.0	14634.9	14256.7	9676.2
37.5°	15104.4	15182.7	14886.0	13947.1	13115.6	12167.0	12450.6	15939.0	16300.9	15978.1	10494.5
40°	16532.4	16639.9	16421.5	15586.9	14700.1	13865.5	13823.2	17249.6	18283.1	17950.6	11713.8
42.5°	17624.5	17706.0	17712.6	17122.4	16323.7	15945.5	15573.9	18922.1	20767.3	20382.6	13128.7
45°	19003.6	19120.9	19052.4	18651.4	18054.8	17986.4	17794.0	20943.3	23740.6	23254.8	14964.2
47.5°	21135.7	21214.0	21044.4	20571.7	19965.3	20072.9	19958.8	23209.2	26772.6	26355.3	16864.9
50°	22615.8	22746.3	22987.5	23176.6	22736.4	22338.7	21999.6	25325.0	29651.3	29276.4	18808.0
52.5°	22599.5	22814.7	23577.6	24529.5	25491.3	25370.7	24395.9	27662.6	32399.6	31936.6	20633.7
55°	21077.1	21494.4	22615.8	24304.6	26968.2	28295.0	27851.6	30368.5	34773.0	34460.1	22749.5
57.5°	17934.2	18188.5	19746.8	22107.3	26143.3	29670.8	31855.1	34036.2	37619.2	37472.4	26035.8
60°	12062.6	12176.8	14181.8	17099.6	22257.2	28298.3	34789.3	38473.3	41123.8	41052.2	29873.0
62.5°	6911.6	6960.5	8414.5	10876.0	15838.0	23981.9	35037.1	43947.1	45326.2	45365.3	34313.3
65°	3719.8	3746.0	4919.6	6383.4	9637.1	17093.1	31506.3	46946.6	48723.3	48798.3	37064.9
66°	3211.3	3087.4	3915.4	5441.3	7667.9	13604.7	29273.1	46838.9	49375.4	49293.9	36967.1
67.5°	2441.8	2552.7	3126.5	4182.8	5682.5	9672.9	24167.6	44755.7	48879.8	48625.5	35464.2
70°	1747.4	1793.1	2226.7	2983.0	3869.9	5307.6	15443.5	37172.5	44426.4	44084.0	30896.7
72.5°	1128.0	1176.9	1577.9	2158.3	2797.3	2898.3	8646.0	26857.3	34251.4	34202.5	23267.9
75°	805.3	850.9	1043.3	1545.3	2102.8	1793.1	4163.2	18100.5	21774.7	21628.0	14393.6
77.5°	583.6	606.4	697.7	1010.6	1503.0	1284.5	1930.0	9666.5	10840.1	11351.9	6360.6
80°	335.8	355.3	485.8	616.2	1017.2	877.0	922.7	3879.6	4000.2	3807.9	1988.7
82.5°	166.3	189.1	290.1	420.6	635.7	590.1	423.9	1167.1	1232.3	1199.8	502.1
85°	39.1	48.9	163.0	277.1	309.7	264.1	205.4	342.3	423.9	414.0	192.3
87.5°	3.3	6.6	58.7	48.9	52.1	88.1	71.7	88.1	136.9	127.2	68.5
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°	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8	4821.8
2.5°	4864.2	4802.3	4622.9	4446.9	4300.2	4147.0	4006.8	3925.3	3892.7	3856.8	3873.1
5°	4932.6	4782.7	4420.8	4107.8	3801.4	3540.5	3331.9	3198.2	3133.1	3123.2	3106.9
7.5°	5024.0	4766.4	4205.6	3716.6	3315.6	3025.4	2787.4	2595.1	2536.5	2484.2	2441.8
10°	5134.8	4737.0	3938.3	3305.8	2878.7	2513.6	2200.6	1972.4	1855.1	1822.4	1845.2
12.5°	5252.1	4681.6	3657.9	2927.6	2435.4	1969.1	1679.0	1564.8	1532.3	1519.3	1522.5
15°	5369.5	4613.1	3364.5	2562.5	1939.8	1571.4	1437.8	1408.4	1395.4	1388.8	1382.4
17.5°	5477.1	4502.3	3035.3	2207.1	1571.4	1343.2	1294.3	1268.2	1242.2	1232.3	1216.1
20°	5604.3	4375.1	2738.5	1809.4	1330.1	1216.1	1157.4	1108.4	1069.3	1043.3	1040.0
22.5°	5724.9	4212.1	2428.8	1499.7	1212.8	1092.1	997.6	945.5	899.8	867.2	877.0
25°	5790.0	4013.3	2151.7	1307.3	1105.2	968.2	864.0	798.8	749.8	733.5	730.2
27.5°	5790.0	3768.8	1881.1	1196.5	1007.4	857.4	749.8	687.9	655.3	632.4	635.7
30°	5744.5	3498.1	1630.1	1111.7	922.7	759.6	658.6	603.2	577.0	560.8	557.5
32.5°	5708.5	3240.6	1414.9	1030.2	834.6	674.8	586.8	544.5	518.4	502.1	502.1
35°	5764.0	3018.9	1248.6	948.7	753.1	609.6	531.4	492.3	466.2	453.1	449.9
37.5°	5910.7	2816.8	1121.5	860.7	678.1	554.2	492.3	446.7	420.6	404.3	397.7
40°	6272.6	2702.7	1026.9	779.2	606.4	508.6	446.7	404.3	371.6	355.3	352.1
42.5°	6852.9	2705.9	935.7	704.2	550.9	469.4	407.5	358.6	322.8	306.5	303.2
45°	7726.6	2829.8	864.0	632.4	502.1	427.1	365.2	312.9	280.4	264.1	264.1
47.5°	8773.1	3071.1	802.0	570.5	456.4	388.0	322.8	270.6	238.0	225.0	225.0
50°	9907.7	3384.1	740.1	505.4	417.3	345.6	277.1	234.7	208.7	198.9	198.9
52.5°	11065.0	3762.2	678.1	453.1	374.9	299.9	238.0	208.7	185.9	179.3	176.0
55°	12584.3	4244.8	612.9	397.7	329.3	257.5	211.9	182.6	156.5	146.7	143.5
57.5°	14921.8	4971.7	541.2	348.8	270.6	215.2	182.6	153.2	123.9	107.6	104.3
60°	17741.9	5858.6	466.2	306.5	218.4	176.0	146.7	117.4	91.2	71.7	68.5
62.5°	20382.6	6422.5	394.5	257.5	172.8	133.6	104.3	88.1	65.2	45.7	42.4
65°	21549.8	6233.5	326.1	208.7	136.9	94.5	68.5	62.0	39.1	19.6	16.3
66°	21161.8	5953.1	299.9	189.1	123.9	81.5	58.7	52.1	29.4	9.8	9.8
67.5°	20017.5	5291.2	260.8	163.0	107.6	65.2	45.7	39.1	16.3	3.3	0.0
70°	17151.8	4280.6	205.4	120.6	78.2	45.7	26.1	19.6	9.8	0.0	0.0
72.5°	13174.3	3188.5	163.0	91.2	55.4	26.1	13.0	6.6	9.8	0.0	0.0
75°	8072.2	1822.4	127.2	68.5	35.8	16.3	9.8	0.0	9.8	3.3	0.0
77.5°	3582.9	818.3	84.8	45.7	26.1	13.0	6.6	0.0	6.6	3.3	0.0
80°	906.3	267.4	48.9	32.6	19.6	9.8	3.3	0.0	6.6	6.6	3.3
82.5°	247.8	97.8	35.8	26.1	16.3	9.8	3.3	0.0	6.6	6.6	6.6
85°	97.8	45.7	32.6	26.1	19.6	9.8	3.3	0.0	6.6	6.6	6.6
87.5°	45.7	32.6	32.6	29.4	22.8	9.8	3.3	0.0	6.6	3.3	6.6
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)