

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: P652460

Luminaire Tested: **GALN-SA6B-840-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652460
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-SA6B-840-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 800mA 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: 21213.4 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

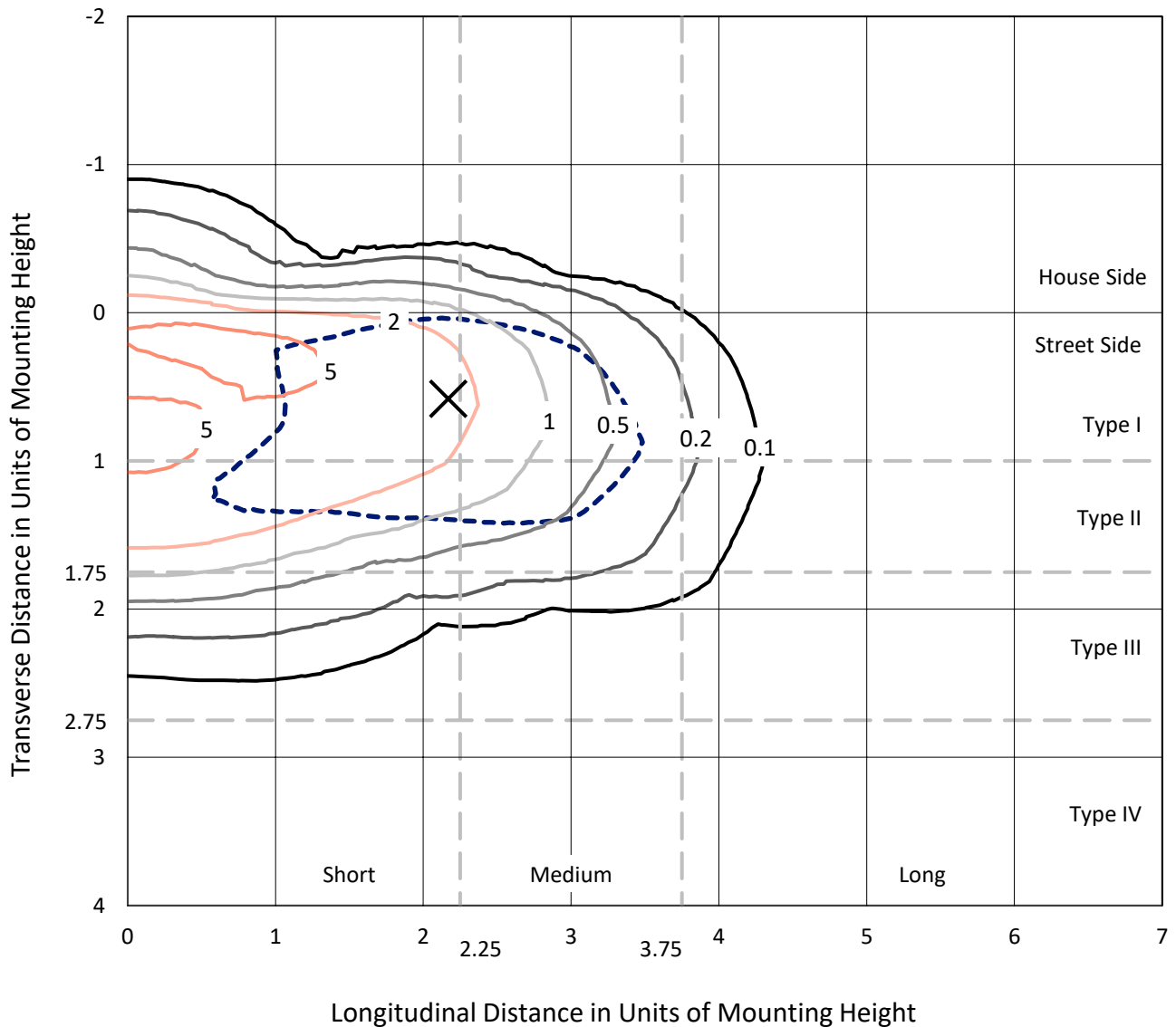
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

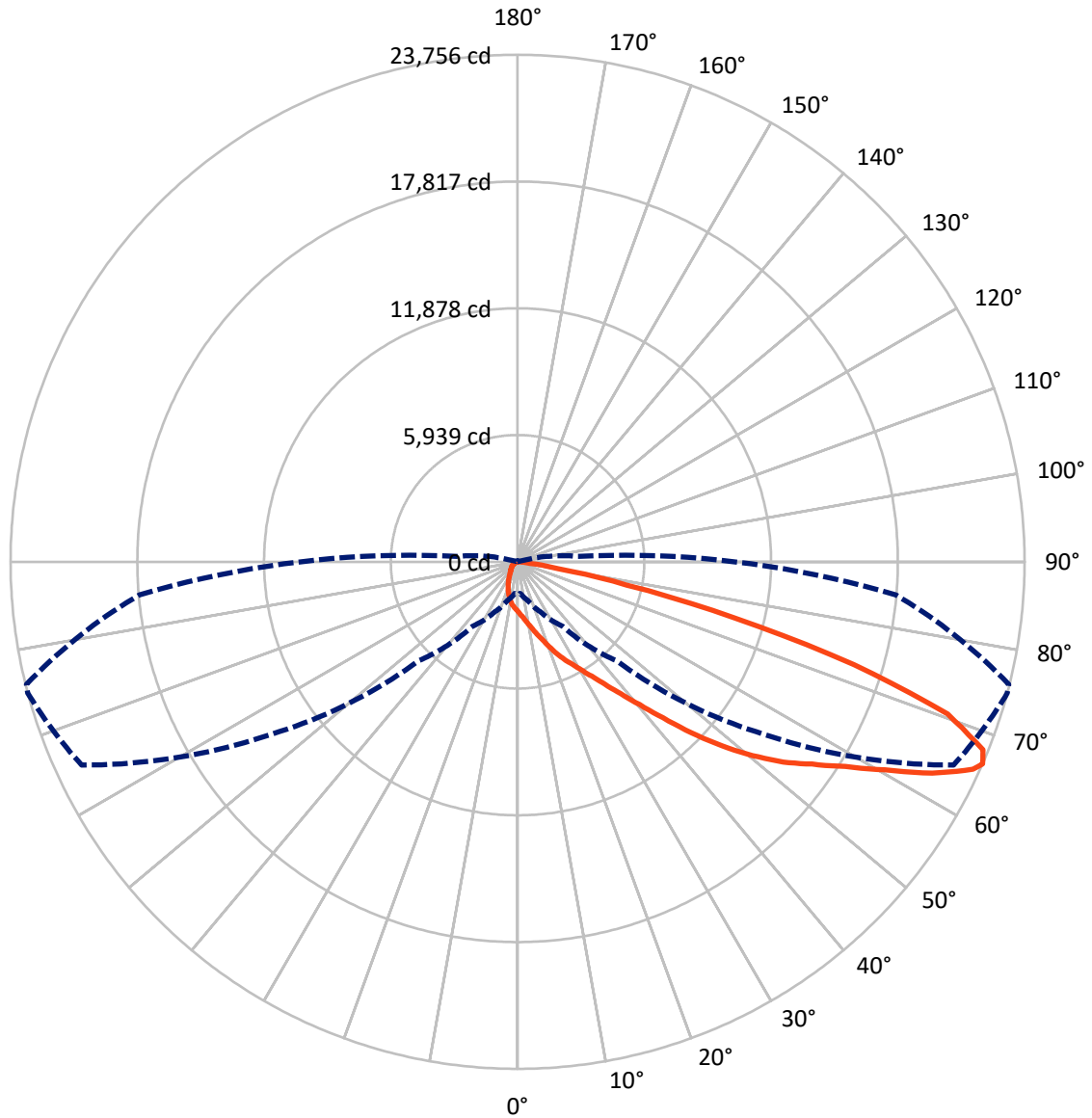
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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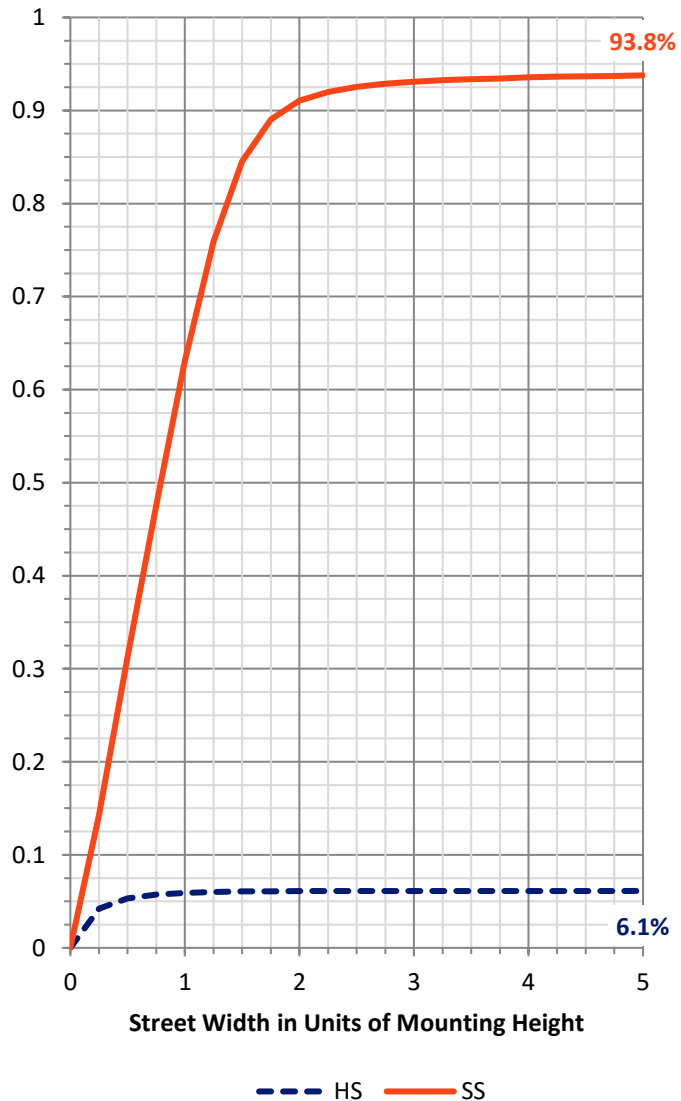
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.6	0.0	1309.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19903.8	0.0	19903.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	21213.4	0.0	21213.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	1.1
10°-20°	658.5	3.1
20°-30°	1137.1	5.4
30°-40°	2051.2	9.7
40°-50°	3705.5	17.5
50°-60°	5776.8	27.2
60°-70°	5487.8	25.9
70°-80°	2056.7	9.7
80°-90°	116.0	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°	21213.4	100.0
0°-180°	21213.4	100.0

Coefficient of Utilization

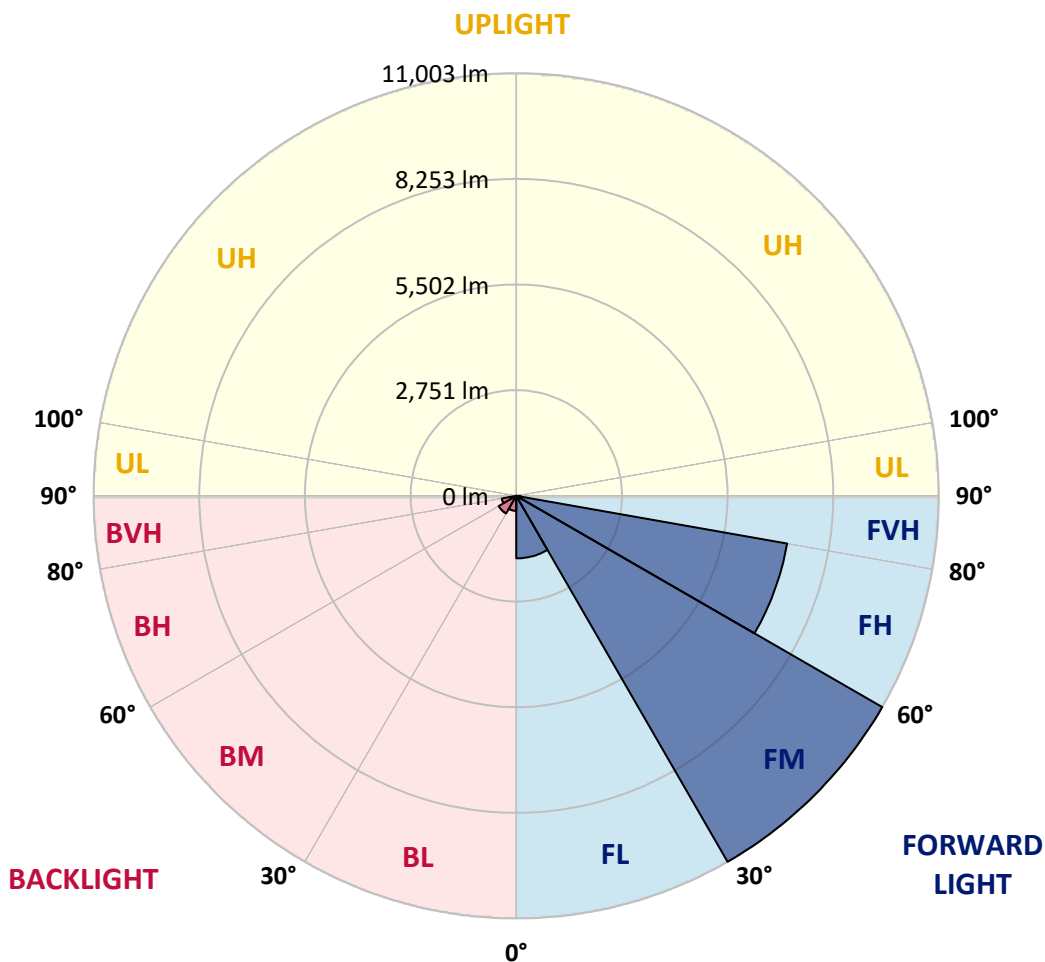


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.3	7.7			
FM (30°-60°)	11003.4	51.9			
FH (60°-80°)	7162.0	33.8			G3/7500
FVH (80°-90°)	110.0	0.5			G2/225
BL (0°-30°)	391.1	1.8	B1/500		
BM (30°-60°)	530.1	2.5	B1/1000		
BH (60°-80°)	382.4	1.8	B1/500		G1/500
BVH (80°-90°)	6.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9
2.5°	2771.6	2737.1	2748.1	2732.4	2696.3	2643.0	2596.0	2528.6	2461.1	2450.1	2374.8
5°	3137.1	3127.7	3115.1	3069.6	3044.6	2963.0	2865.8	2749.6	2610.0	2585.0	2448.5
7.5°	3386.5	3381.8	3388.1	3364.6	3342.6	3268.9	3165.4	3006.9	2790.4	2776.3	2548.9
10°	3468.1	3480.6	3504.1	3541.8	3576.3	3552.8	3474.3	3276.7	3024.2	2983.4	2663.4
12.5°	3421.0	3435.1	3491.6	3592.0	3703.3	3767.7	3736.3	3592.0	3272.0	3239.0	2792.0
15°	3300.3	3317.5	3397.5	3552.8	3752.0	3933.9	4012.3	3908.8	3560.6	3507.3	2947.3
17.5°	3121.5	3146.5	3261.1	3466.5	3739.4	4053.1	4274.3	4239.8	3868.1	3817.9	3116.7
20°	2986.6	3005.3	3102.6	3337.8	3686.1	4119.0	4523.7	4621.0	4247.6	4161.4	3315.9
22.5°	3076.0	3082.2	3115.1	3256.4	3590.4	4136.3	4743.3	5017.8	4650.7	4573.9	3522.9
25°	3513.5	3450.8	3417.9	3386.5	3570.0	4120.6	4942.6	5431.9	5052.3	4970.7	3728.5
27.5°	4203.7	4175.5	4009.2	3786.5	3744.1	4141.0	5074.3	5824.0	5430.3	5342.5	3929.2
30°	4955.1	4906.5	4804.5	4478.2	4150.4	4285.3	5170.0	6205.2	5877.4	5761.3	4112.7
32.5°	5645.2	5676.6	5524.4	5188.8	4809.2	4592.7	5293.8	6620.9	6390.3	6246.0	4326.1
35°	6449.9	6512.6	6278.9	5957.4	5513.5	5148.0	5535.5	7089.9	7041.3	6859.3	4655.4
37.5°	7267.1	7304.8	7162.0	6710.3	6310.3	5853.9	5990.3	7668.7	7842.7	7687.5	5049.2
40°	7954.2	8005.9	7900.8	7499.3	7072.6	6671.1	6650.7	8299.2	8796.4	8636.5	5635.8
42.5°	8479.6	8518.8	8521.9	8238.0	7853.8	7671.8	7493.0	9103.9	9991.7	9806.6	6316.6
45°	9143.1	9199.6	9166.6	8973.7	8686.7	8653.7	8561.2	10076.4	11422.2	11188.5	7199.6
47.5°	10169.0	10206.6	10125.1	9897.6	9605.8	9657.6	9602.7	11166.5	12881.0	12680.2	8114.1
50°	10881.0	10943.8	11059.9	11150.8	10939.1	10747.7	10584.6	12184.6	14266.1	14085.7	9049.0
52.5°	10873.2	10976.7	11343.8	11801.8	12264.6	12206.5	11737.5	13309.2	15588.3	15365.6	9927.4
55°	10140.7	10341.5	10881.0	11693.6	12975.1	13613.5	13400.2	14611.1	16730.2	16579.6	10945.4
57.5°	8628.7	8750.9	9500.8	10636.4	12578.2	14275.4	15326.4	16375.7	18099.6	18028.9	12526.4
60°	5803.7	5858.6	6823.2	8227.1	10708.5	13615.0	16738.1	18510.5	19785.8	19751.2	14372.7
62.5°	3325.3	3348.9	4048.4	5232.7	7620.0	11538.3	16857.3	21144.1	21807.6	21826.5	16509.1
65°	1789.7	1802.3	2366.9	3071.2	4636.7	8224.0	15158.5	22587.2	23442.0	23478.1	17832.9
66°	1545.0	1485.5	1883.8	2617.9	3689.2	6545.6	14084.1	22535.4	23755.8	23716.5	17785.9
67.5°	1174.9	1228.2	1504.2	2012.4	2734.0	4653.9	11627.7	21533.1	23517.4	23395.0	17062.7
70°	840.7	862.7	1071.3	1435.3	1861.9	2553.6	7430.2	17884.7	21374.7	21210.0	14865.2
72.5°	542.7	566.2	759.2	1038.4	1345.9	1394.5	4159.8	12921.8	16479.2	16455.7	11194.8
75°	387.4	409.4	501.9	743.5	1011.7	862.7	2003.0	8708.6	10476.4	10405.8	6925.1
77.5°	280.8	291.7	335.6	486.3	723.1	618.1	928.5	4650.7	5215.5	5461.7	3060.2
80°	161.6	171.0	233.7	296.5	489.4	421.9	443.9	1866.6	1924.6	1832.0	956.8
82.5°	80.0	91.0	139.6	202.3	305.9	283.9	203.9	561.5	592.9	577.3	241.5
85°	18.8	23.5	78.5	133.3	149.0	127.1	98.8	164.7	203.9	199.2	92.5
87.5°	1.6	3.1	28.3	23.5	25.1	42.4	34.5	42.4	65.9	61.1	33.0
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°	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9	2319.9
2.5°	2340.3	2310.5	2224.2	2139.5	2068.9	1995.2	1927.7	1888.5	1872.8	1855.6	1863.4
5°	2373.2	2301.1	2127.0	1976.4	1828.9	1703.4	1603.0	1538.8	1507.4	1502.7	1494.8
7.5°	2417.1	2293.2	2023.4	1788.1	1595.2	1455.6	1341.1	1248.5	1220.4	1195.2	1174.9
10°	2470.4	2279.1	1894.8	1590.5	1385.0	1209.4	1058.7	949.0	892.5	876.8	887.8
12.5°	2527.0	2252.5	1760.0	1408.6	1171.7	947.4	807.8	752.9	737.2	730.9	732.5
15°	2583.4	2219.5	1618.8	1232.9	933.3	756.1	691.7	677.6	671.4	668.2	665.1
17.5°	2635.2	2166.2	1460.3	1061.9	756.1	646.2	622.7	610.1	597.6	592.9	585.1
20°	2696.3	2105.0	1317.6	870.5	640.0	585.1	556.8	533.3	514.5	501.9	500.4
22.5°	2754.4	2026.6	1168.6	721.5	583.5	525.5	480.0	454.9	432.9	417.2	421.9
25°	2785.7	1930.9	1035.3	629.0	531.8	465.8	415.7	384.3	360.8	352.9	351.4
27.5°	2785.7	1813.3	905.1	575.7	484.7	412.5	360.8	330.9	315.3	304.3	305.9
30°	2763.8	1683.1	784.3	534.9	443.9	365.5	316.9	290.1	277.6	269.8	268.2
32.5°	2746.5	1559.1	680.8	495.7	401.6	324.7	282.3	262.0	249.4	241.5	241.5
35°	2773.2	1452.5	600.7	456.4	362.3	293.3	255.7	236.8	224.3	218.0	216.5
37.5°	2843.8	1355.3	539.6	414.1	326.2	266.7	236.8	214.9	202.3	194.5	191.3
40°	3017.9	1300.4	494.1	374.9	291.7	244.7	214.9	194.5	178.8	171.0	169.4
42.5°	3297.1	1301.9	450.2	338.8	265.1	225.9	196.0	172.6	155.2	147.4	145.9
45°	3717.5	1361.5	415.7	304.3	241.5	205.5	175.7	150.6	134.9	127.1	127.1
47.5°	4221.0	1477.6	385.9	274.5	219.6	186.6	155.2	130.2	114.5	108.2	108.2
50°	4766.9	1628.2	356.1	243.1	200.7	166.3	133.3	112.9	100.4	95.7	95.7
52.5°	5323.7	1810.1	326.2	218.0	180.4	144.3	114.5	100.4	89.4	86.3	84.7
55°	6054.6	2042.3	294.9	191.3	158.4	123.9	101.9	87.8	75.3	70.6	69.0
57.5°	7179.3	2392.1	260.4	167.9	130.2	103.5	87.8	73.8	59.6	51.7	50.2
60°	8536.1	2818.7	224.3	147.4	105.1	84.7	70.6	56.4	43.9	34.5	33.0
62.5°	9806.6	3090.1	189.8	123.9	83.2	64.3	50.2	42.4	31.4	22.0	20.4
65°	10368.2	2999.1	156.8	100.4	65.9	45.5	33.0	29.8	18.8	9.4	7.8
66°	10181.5	2864.2	144.3	91.0	59.6	39.2	28.3	25.1	14.1	4.7	4.7
67.5°	9631.0	2545.8	125.5	78.5	51.7	31.4	22.0	18.8	7.8	1.6	0.0
70°	8252.1	2059.5	98.8	58.0	37.7	22.0	12.5	9.4	4.7	0.0	0.0
72.5°	6338.5	1534.1	78.5	43.9	26.7	12.5	6.3	3.1	4.7	0.0	0.0
75°	3883.7	876.8	61.1	33.0	17.2	7.8	4.7	0.0	4.7	1.6	0.0
77.5°	1723.9	393.7	40.8	22.0	12.5	6.3	3.1	0.0	3.1	1.6	0.0
80°	436.1	128.6	23.5	15.7	9.4	4.7	1.6	0.0	3.1	3.1	1.6
82.5°	119.2	47.1	17.2	12.5	7.8	4.7	1.6	0.0	3.1	3.1	3.1
85°	47.1	22.0	15.7	12.5	9.4	4.7	1.6	0.0	3.1	3.1	3.1
87.5°	22.0	15.7	15.7	14.1	11.0	4.7	1.6	0.0	3.1	1.6	3.1
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)