

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: P454296

Luminaire Tested: **GALN-SA5B-827-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454296
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-SA5B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 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: 15660 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

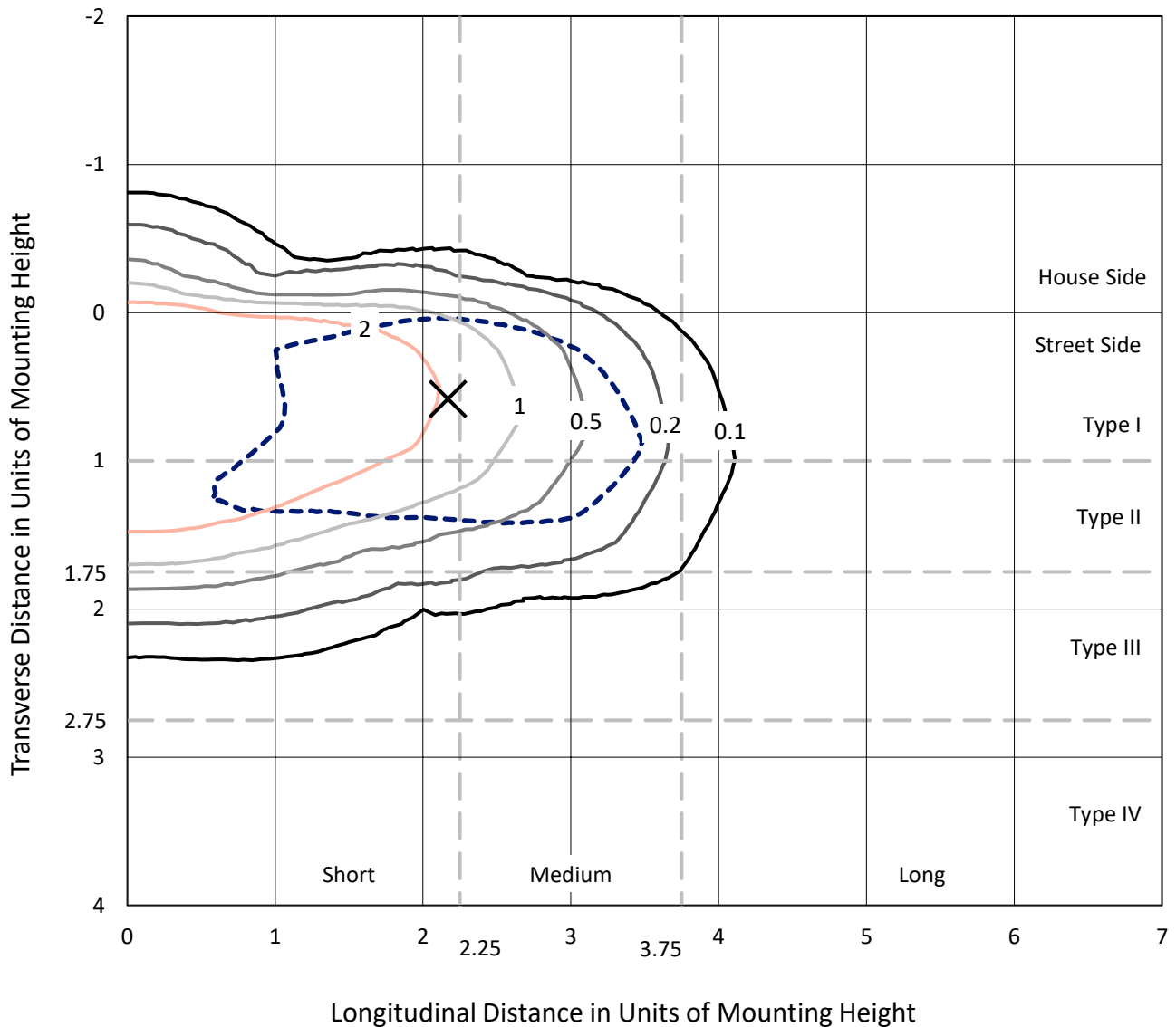
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

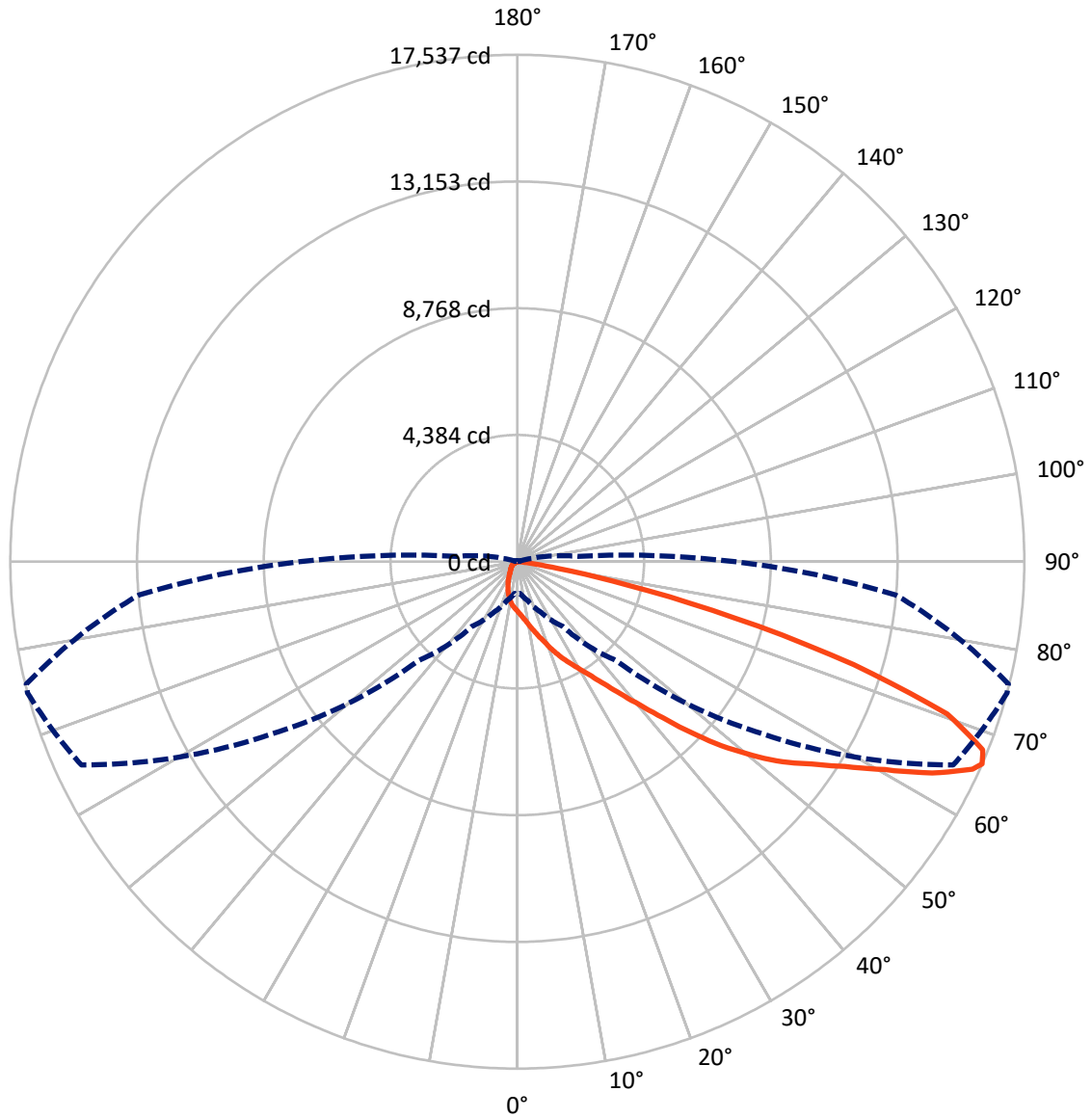
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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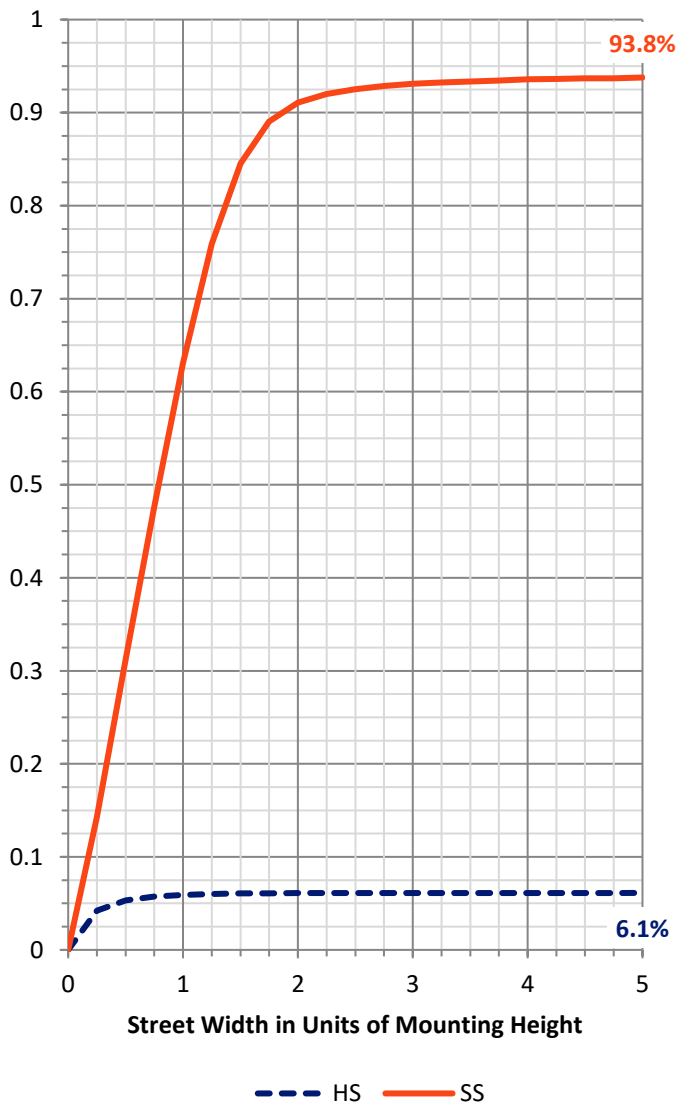
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	966.8	0.0	966.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	14693.2	0.0	14693.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	15660.0	0.0	15660.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.1
10°-20°	486.1	3.1
20°-30°	839.4	5.4
30°-40°	1514.2	9.7
40°-50°	2735.4	17.5
50°-60°	4264.5	27.2
60°-70°	4051.1	25.9
70°-80°	1518.3	9.7
80°-90°	85.7	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°	15660.0	100.0
0°-180°	15660.0	100.0



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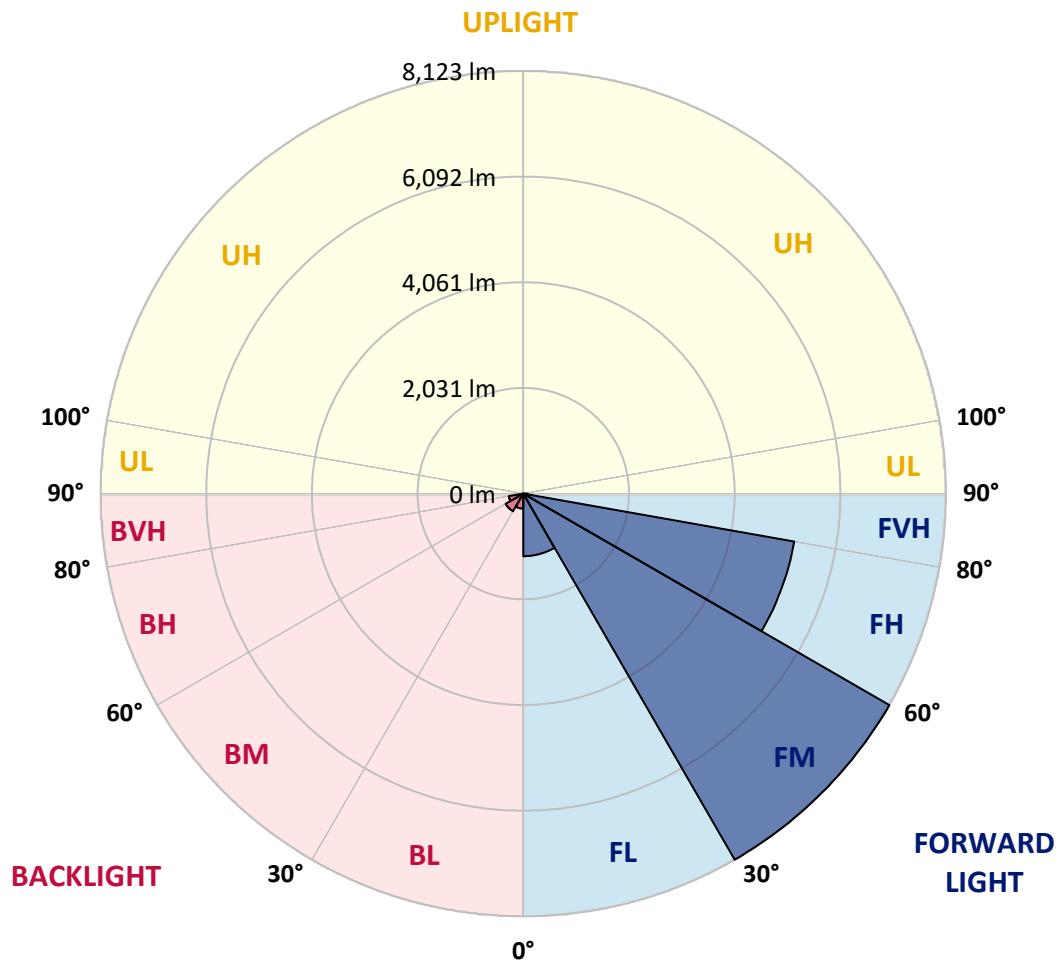
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.0	7.7			
FM (30°-60°)	8122.8	51.9			
FH (60°-80°)	5287.1	33.8			G3/7500
FVH (80°-90°)	81.2	0.5			G1/100
BL (0°-30°)	288.7	1.8	B1/500		
BM (30°-60°)	391.3	2.5	B1/1000		
BH (60°-80°)	282.3	1.8	B1/500		G1/500
BVH (80°-90°)	4.4	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°	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	2046.1	2020.6	2028.7	2017.1	1990.5	1951.1	1916.4	1866.6	1816.8	1808.7	1753.1
5°	2315.9	2308.9	2299.6	2266.1	2247.5	2187.3	2115.5	2029.8	1926.8	1908.3	1807.5
7.5°	2500.0	2496.5	2501.1	2483.8	2467.5	2413.1	2336.7	2219.7	2060.0	2049.5	1881.6
10°	2560.2	2569.4	2586.8	2614.6	2640.1	2622.7	2564.8	2418.9	2232.5	2202.4	1966.2
12.5°	2525.4	2535.9	2577.5	2651.7	2733.9	2781.3	2758.2	2651.7	2415.4	2391.1	2061.1
15°	2436.3	2449.0	2508.1	2622.7	2769.8	2904.1	2962.0	2885.6	2628.5	2589.1	2175.7
17.5°	2304.3	2322.8	2407.3	2559.0	2760.5	2992.1	3155.4	3129.9	2855.5	2818.4	2300.8
20°	2204.7	2218.6	2290.4	2464.1	2721.1	3040.7	3339.5	3411.3	3135.7	3072.0	2447.9
22.5°	2270.7	2275.3	2299.6	2403.9	2650.5	3053.5	3501.6	3704.2	3433.3	3376.5	2600.7
25°	2593.8	2547.4	2523.1	2500.0	2635.4	3041.9	3648.6	4009.9	3729.7	3669.5	2752.4
27.5°	3103.2	3082.4	2959.7	2795.2	2764.0	3056.9	3745.9	4299.4	4008.7	3943.9	2900.6
30°	3657.9	3622.0	3546.7	3305.9	3063.9	3163.5	3816.5	4580.8	4338.8	4253.1	3036.1
32.5°	4167.4	4190.5	4078.2	3830.4	3550.2	3390.4	3908.0	4887.6	4717.4	4610.9	3193.6
35°	4761.4	4807.7	4635.2	4397.8	4070.1	3800.3	4086.3	5233.8	5197.9	5063.6	3436.7
37.5°	5364.7	5392.5	5287.1	4953.6	4658.3	4321.4	4422.1	5661.1	5789.6	5675.0	3727.4
40°	5871.9	5910.1	5832.5	5536.1	5221.1	4924.7	4909.6	6126.6	6493.7	6375.6	4160.4
42.5°	6259.8	6288.7	6291.0	6081.4	5797.7	5663.4	5531.4	6720.6	7376.0	7239.4	4663.0
45°	6749.6	6791.2	6766.9	6624.5	6412.6	6388.3	6320.0	7438.5	8432.0	8259.5	5314.9
47.5°	7506.8	7534.6	7474.4	7306.5	7091.2	7129.4	7088.8	8243.3	9508.9	9360.7	5990.0
50°	8032.5	8078.9	8164.6	8231.7	8075.4	7934.1	7813.7	8994.8	10531.4	10398.2	6680.1
52.5°	8026.8	8103.2	8374.1	8712.3	9053.8	9011.0	8664.8	9825.0	11507.5	11343.1	7328.5
55°	7486.0	7634.2	8032.5	8632.4	9578.4	10049.7	9892.2	10786.1	12350.5	12239.3	8080.0
57.5°	6369.8	6460.1	7013.6	7851.9	9285.4	10538.3	11314.1	12088.8	13361.3	13309.2	9247.2
60°	4284.3	4324.9	5037.0	6073.3	7905.2	10050.8	12356.3	13664.7	14606.1	14580.6	10610.1
62.5°	2454.8	2472.2	2988.6	3862.8	5625.2	8517.7	12444.3	15608.9	16098.7	16112.6	12187.2
65°	1321.2	1330.5	1747.3	2267.2	3422.8	6071.0	11190.2	16674.2	17305.2	17331.9	13164.5
66°	1140.6	1096.6	1390.7	1932.6	2723.4	4832.0	10397.0	16636.0	17536.8	17507.9	13129.7
67.5°	867.3	906.7	1110.5	1485.6	2018.3	3435.6	8583.7	15896.0	17360.8	17270.5	12595.9
70°	620.6	636.9	790.9	1059.5	1374.5	1885.1	5485.1	13202.7	15779.1	15657.5	10973.7
72.5°	400.6	418.0	560.4	766.5	993.5	1029.4	3070.8	9539.0	12165.2	12147.8	8264.1
75°	286.0	302.2	370.5	548.9	746.9	636.9	1478.7	6428.8	7733.8	7681.7	5112.3
77.5°	207.3	215.4	247.8	359.0	533.8	456.2	685.5	3433.3	3850.1	4031.9	2259.1
80°	119.3	126.2	172.5	218.8	361.3	311.5	327.7	1377.9	1420.8	1352.5	706.3
82.5°	59.1	67.2	103.1	149.4	225.8	209.6	150.5	414.5	437.7	426.1	178.3
85°	13.9	17.4	57.9	98.4	110.0	93.8	72.9	121.6	150.5	147.1	68.3
87.5°	1.2	2.3	20.8	17.4	18.5	31.3	25.5	31.3	48.6	45.2	24.3
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°	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1727.6	1705.6	1641.9	1579.4	1527.3	1472.9	1423.1	1394.1	1382.6	1369.8	1375.6
5°	1751.9	1698.7	1570.2	1459.0	1350.1	1257.5	1183.4	1135.9	1112.8	1109.3	1103.5
7.5°	1784.4	1692.9	1493.7	1320.0	1177.6	1074.6	990.0	921.7	900.9	882.3	867.3
10°	1823.7	1682.5	1398.8	1174.1	1022.5	892.8	781.6	700.5	658.9	647.3	655.4
12.5°	1865.4	1662.8	1299.2	1039.8	865.0	699.4	596.3	555.8	544.2	539.6	540.8
15°	1907.1	1638.5	1195.0	910.1	689.0	558.1	510.6	500.2	495.6	493.3	491.0
17.5°	1945.3	1599.1	1078.0	783.9	558.1	477.1	459.7	450.4	441.2	437.7	431.9
20°	1990.5	1553.9	972.7	642.7	472.4	431.9	411.1	393.7	379.8	370.5	369.4
22.5°	2033.3	1496.0	862.7	532.6	430.7	387.9	354.3	335.8	319.6	308.0	311.5
25°	2056.5	1425.4	764.2	464.3	392.5	343.9	306.9	283.7	266.3	260.5	259.4
27.5°	2056.5	1338.6	668.1	425.0	357.8	304.5	266.3	244.3	232.7	224.6	225.8
30°	2040.3	1242.5	579.0	394.9	327.7	269.8	233.9	214.2	205.0	199.2	198.0
32.5°	2027.5	1151.0	502.5	365.9	296.4	239.7	208.4	193.4	184.1	178.3	178.3
35°	2047.2	1072.2	443.5	337.0	267.5	216.5	188.7	174.8	165.6	161.0	159.8
37.5°	2099.3	1000.4	398.3	305.7	240.8	196.8	174.8	158.6	149.4	143.6	141.3
40°	2227.9	959.9	364.7	276.7	215.4	180.6	158.6	143.6	132.0	126.2	125.1
42.5°	2434.0	961.1	332.3	250.1	195.7	166.7	144.7	127.4	114.6	108.8	107.7
45°	2744.3	1005.1	306.9	224.6	178.3	151.7	129.7	111.2	99.6	93.8	93.8
47.5°	3116.0	1090.8	284.9	202.6	162.1	137.8	114.6	96.1	84.5	79.9	79.9
50°	3518.9	1201.9	262.8	179.5	148.2	122.7	98.4	83.4	74.1	70.6	70.6
52.5°	3930.0	1336.2	240.8	161.0	133.2	106.5	84.5	74.1	66.0	63.7	62.5
55°	4469.6	1507.6	217.7	141.3	117.0	91.5	75.3	64.8	55.6	52.1	50.9
57.5°	5299.8	1765.8	192.2	123.9	96.1	76.4	64.8	54.4	44.0	38.2	37.1
60°	6301.4	2080.8	165.6	108.8	77.6	62.5	52.1	41.7	32.4	25.5	24.3
62.5°	7239.4	2281.1	140.1	91.5	61.4	47.5	37.1	31.3	23.2	16.2	15.1
65°	7653.9	2214.0	115.8	74.1	48.6	33.6	24.3	22.0	13.9	6.9	5.8
66°	7516.1	2114.4	106.5	67.2	44.0	28.9	20.8	18.5	10.4	3.5	3.5
67.5°	7109.7	1879.3	92.6	57.9	38.2	23.2	16.2	13.9	5.8	1.2	0.0
70°	6091.9	1520.4	72.9	42.8	27.8	16.2	9.3	6.9	3.5	0.0	0.0
72.5°	4679.2	1132.5	57.9	32.4	19.7	9.3	4.6	2.3	3.5	0.0	0.0
75°	2867.0	647.3	45.2	24.3	12.7	5.8	3.5	0.0	3.5	1.2	0.0
77.5°	1272.6	290.6	30.1	16.2	9.3	4.6	2.3	0.0	2.3	1.2	0.0
80°	321.9	95.0	17.4	11.6	6.9	3.5	1.2	0.0	2.3	2.3	1.2
82.5°	88.0	34.7	12.7	9.3	5.8	3.5	1.2	0.0	2.3	2.3	2.3
85°	34.7	16.2	11.6	9.3	6.9	3.5	1.2	0.0	2.3	2.3	2.3
87.5°	16.2	11.6	11.6	10.4	8.1	3.5	1.2	0.0	2.3	1.2	2.3
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)