

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: P382698

Luminaire Tested: **GLEON-SA0D-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0D-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 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: 50894.2 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

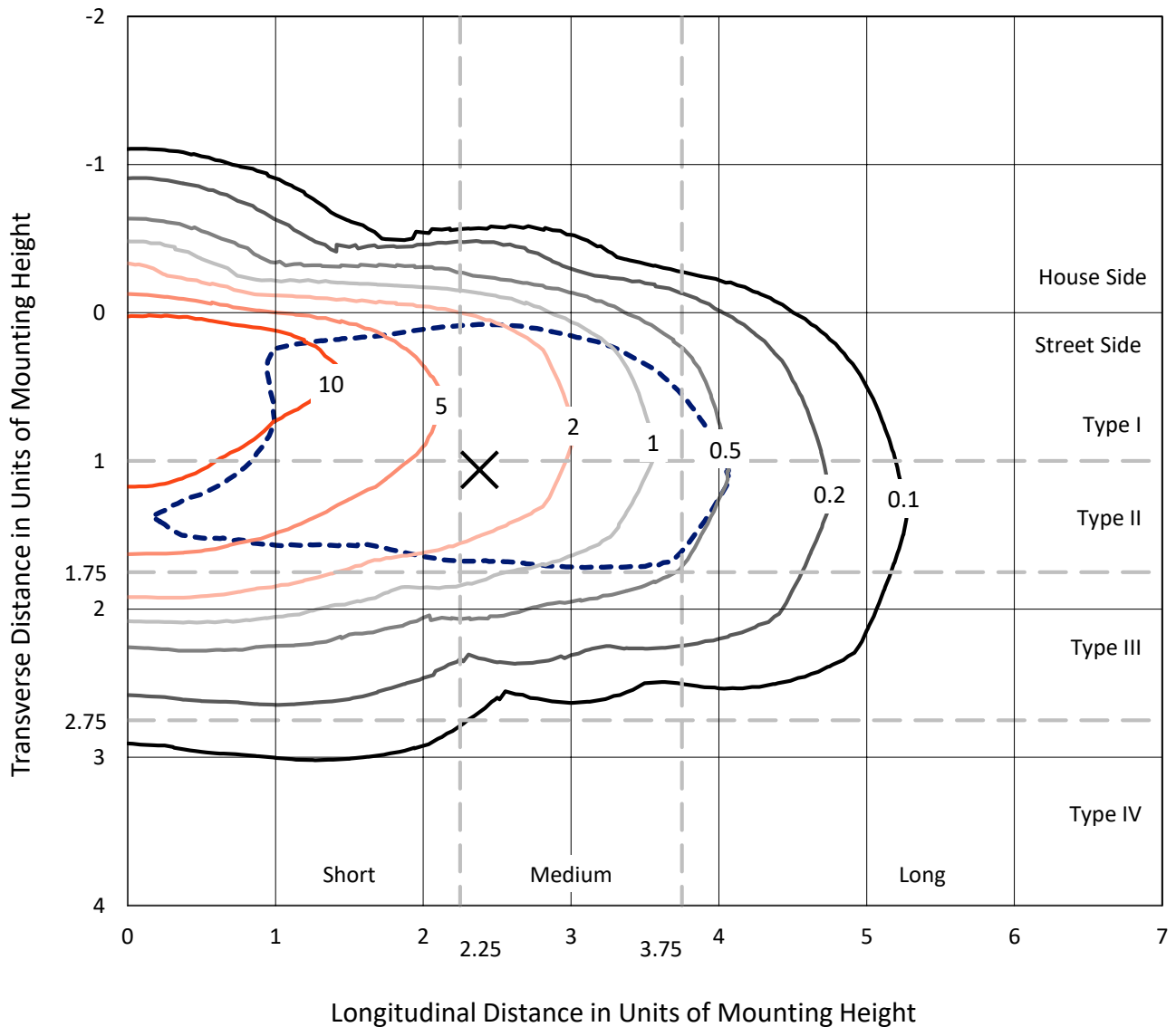
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

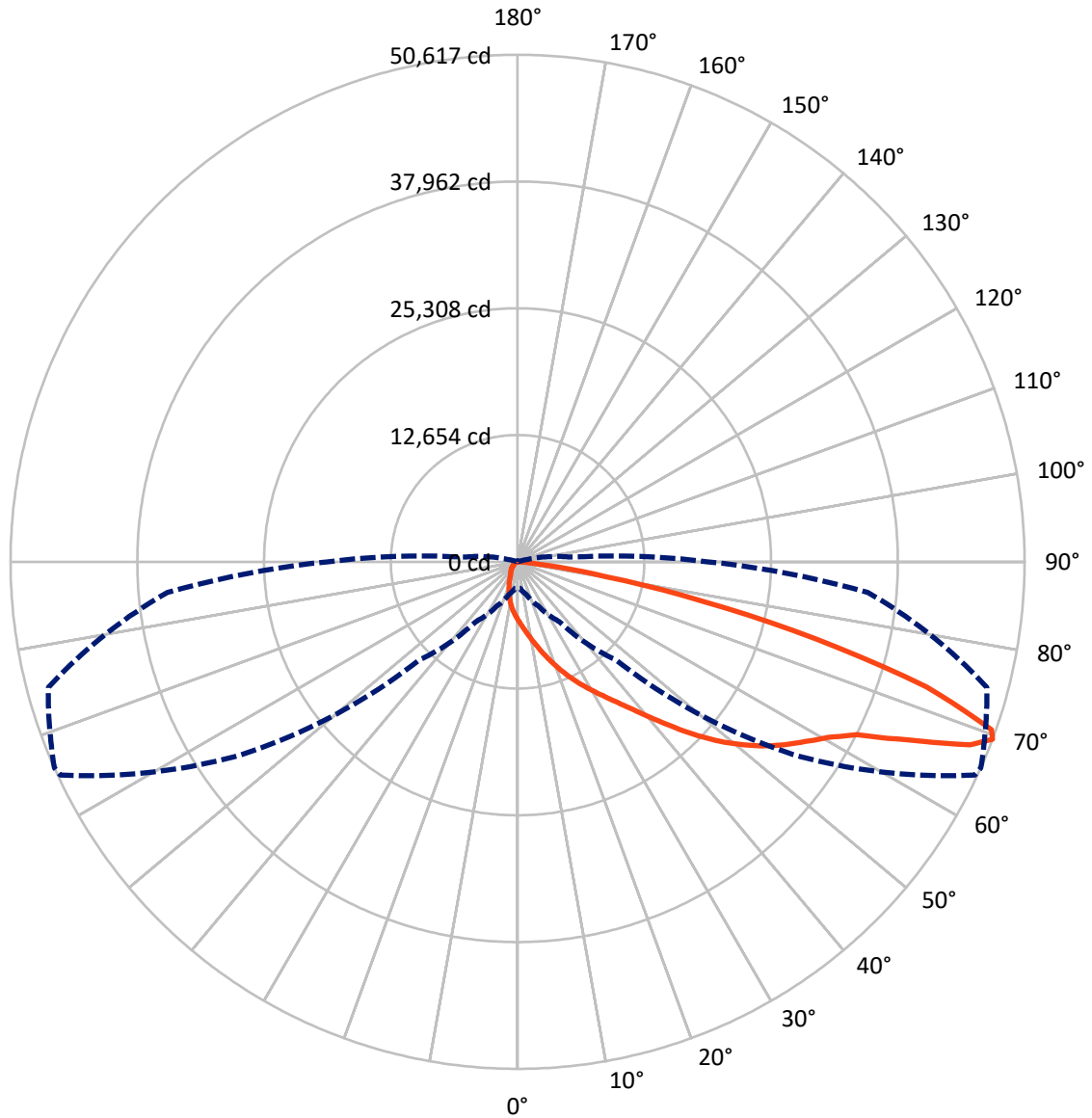
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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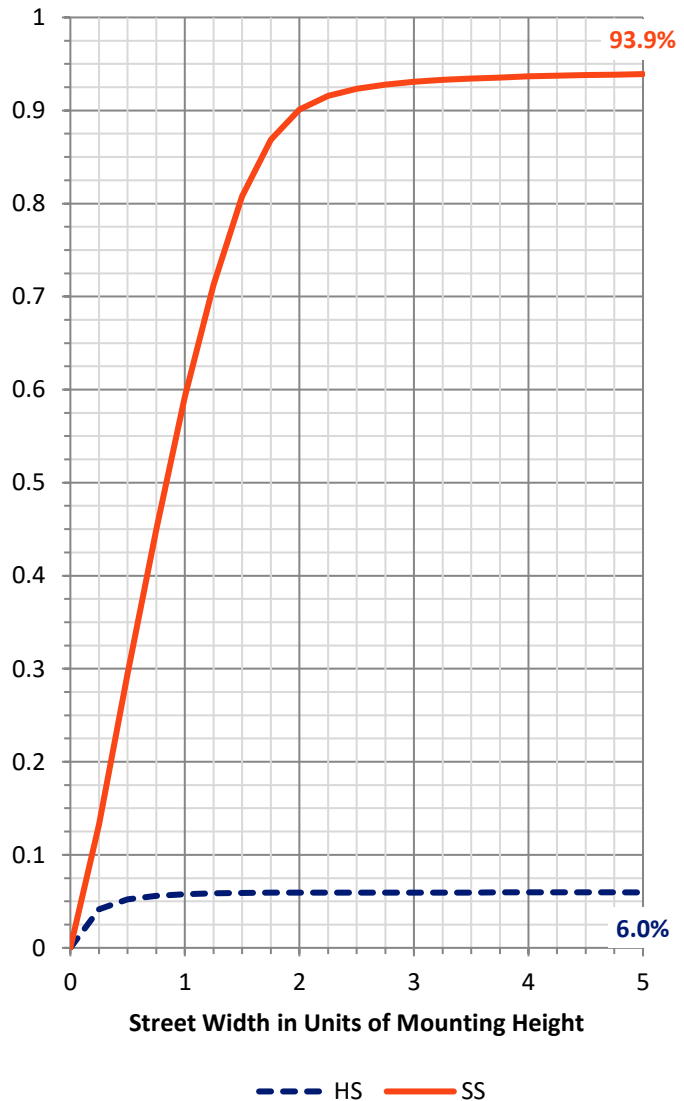
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3052.9	0.0	3052.9
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	47841.2	0.0	47841.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	50894.2	0.0	50894.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.9	1.1
10°-20°	1666.3	3.3
20°-30°	2901.6	5.7
30°-40°	5090.8	10.0
40°-50°	8521.2	16.7
50°-60°	12525.4	24.6
60°-70°	12860.4	25.3
70°-80°	6348.8	12.5
80°-90°	419.8	0.8
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°	50894.2	100.0
0°-180°	50894.2	100.0

Coefficient of Utilization

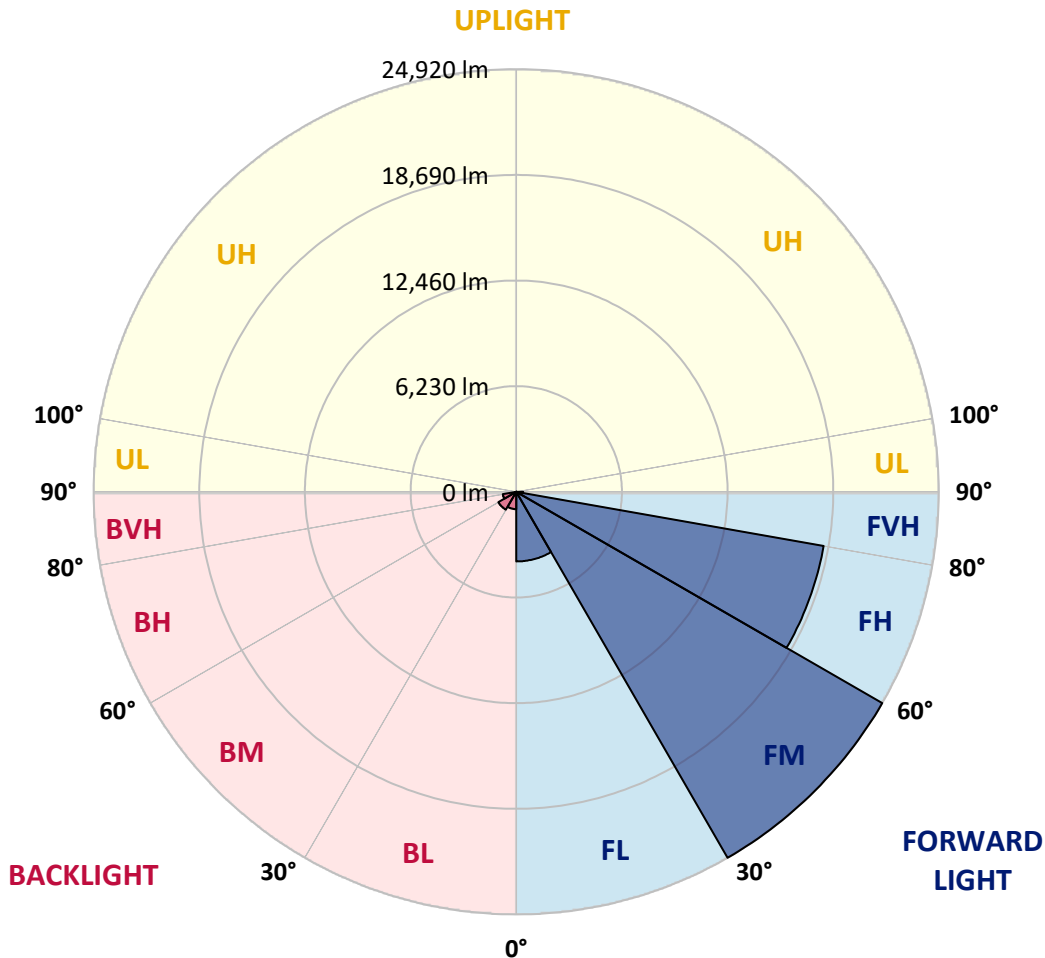


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4106.7	8.1			
FM (30°-60°)	24920.2	49.0			
FH (60°-80°)	18404.7	36.2			G5
FVH (80°-90°)	409.6	0.8			G3/500
BL (0°-30°)	1021.0	2.0	B3/2500		
BM (30°-60°)	1217.2	2.4	B2/2500		
BH (60°-80°)	804.5	1.6	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9
2.5°	6816.9	6787.8	6775.8	6722.6	6630.8	6560.6	6425.3	6268.1	6239.1	6086.8	5900.7
5°	7701.6	7677.4	7660.5	7585.6	7491.3	7314.8	7068.3	6775.8	6720.2	6430.1	6057.9
7.5°	8318.1	8361.6	8361.6	8313.2	8194.7	8061.8	7759.6	7360.8	7290.7	6845.9	6268.1
10°	8678.2	8731.4	8772.5	8813.6	8796.7	8743.5	8458.3	8008.6	7924.0	7334.2	6512.3
12.5°	8712.0	8765.2	8881.3	9052.9	9219.7	9340.5	9161.7	8726.6	8629.9	7899.8	6802.3
15°	8523.5	8579.1	8757.9	9091.5	9495.3	9848.2	9906.2	9521.8	9422.8	8574.2	7165.0
17.5°	8194.7	8231.0	8487.2	8948.9	9582.3	10230.2	10580.6	10375.2	10283.4	9345.4	7568.6
20°	7950.6	7977.2	8202.0	8697.6	9529.1	10469.5	11218.8	11281.7	11185.0	10172.1	8006.2
22.5°	8368.8	8417.2	8424.4	8658.8	9384.0	10587.9	11779.6	12173.7	12101.2	11049.6	8436.5
25°	9512.2	9567.8	9384.0	9239.0	9507.4	10641.1	12260.7	13087.4	13029.4	11994.8	8869.2
27.5°	11023.0	11081.0	10844.1	10411.4	10152.8	10841.7	12688.5	14015.7	14013.3	12995.6	9335.7
30°	12507.2	12565.3	12323.5	11890.8	11296.1	11409.8	13058.4	14987.5	15001.9	14027.8	9831.3
32.5°	14064.0	14136.5	13887.5	13331.6	12710.3	12391.3	13578.1	15964.0	16046.2	15224.4	10389.6
35°	15833.5	15843.2	15492.7	14910.1	14194.5	13703.8	14412.2	17059.1	17254.9	16706.2	11098.0
37.5°	17569.2	17639.2	17351.6	16433.0	15775.5	15219.5	15652.2	18427.3	18705.3	18516.7	12023.8
40°	18855.2	19002.6	18961.6	17970.4	17346.7	16950.3	17192.1	20054.2	20407.1	20624.7	13191.4
42.5°	19662.5	19773.8	19962.3	19365.2	18799.6	18864.9	19009.9	21949.3	22384.4	23027.5	14533.0
45°	20588.4	20641.6	20798.7	20535.2	20153.3	20810.8	20938.9	24083.9	24540.7	25611.6	16022.1
47.5°	21719.7	21845.4	21888.9	21647.2	21473.1	22531.9	22797.9	26024.9	26665.6	28379.4	17598.1
50°	23160.4	23194.2	23269.2	23112.1	22938.1	24011.3	24465.8	28062.8	28645.4	31156.9	19152.5
52.5°	24569.8	24690.6	24951.7	24852.6	24782.4	25270.7	25952.5	29900.0	30550.2	33472.7	20704.4
55°	24975.8	25079.8	25981.4	26597.8	27168.4	26822.7	27373.8	31546.1	32249.6	35542.0	22198.3
57.5°	23353.8	23564.1	25125.7	26730.9	29097.4	29235.1	29327.1	33235.8	33866.8	37127.8	23752.7
60°	19254.1	19295.1	21857.5	24610.8	28778.3	31340.7	32179.5	35051.2	35580.6	38604.7	25614.0
62.5°	12246.2	12664.4	15475.7	19362.8	25403.7	31036.1	35629.0	37797.4	37990.7	40376.6	28282.7
65°	5833.0	6103.8	8129.5	11963.4	18400.7	27136.9	38010.1	42764.9	42852.0	43889.0	31848.3
67.5°	3229.6	3360.1	4324.6	6439.8	10757.1	19191.2	37048.0	48648.8	48730.9	47476.3	34976.4
69°	2526.1	2637.3	3396.3	4854.0	7293.1	13793.2	33525.9	50372.3	50616.5	48503.7	35087.5
70°	2144.1	2252.9	2925.0	4099.8	5864.5	10658.0	29841.9	49944.5	50203.1	48407.0	34258.4
72.5°	1312.6	1375.4	1948.3	2886.3	3930.6	5361.6	18403.1	42238.0	42675.5	44403.9	29443.1
75°	884.8	918.6	1218.4	1991.8	2811.3	2760.5	9560.6	29771.8	30719.5	34541.2	21746.3
77.5°	633.4	664.8	817.1	1288.4	1970.1	1822.7	4329.5	18502.2	18705.3	20716.5	11859.4
80°	360.1	389.2	577.7	766.3	1336.8	1215.9	1721.1	8837.8	8939.3	8883.7	3959.5
82.5°	188.5	212.8	316.6	505.2	858.1	795.3	715.5	2958.8	2973.3	2472.9	867.8
85°	36.2	43.5	157.2	345.7	442.4	345.7	292.5	693.8	708.3	626.1	215.2
87.5°	0.0	2.4	62.9	77.3	87.0	89.4	94.3	135.4	145.0	195.8	58.0
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°	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9	5791.9
2.5°	5818.5	5731.5	5564.7	5371.3	5221.4	5074.0	4958.0	4837.1	4793.6	4771.9	4769.4
5°	5876.5	5692.8	5339.9	4977.3	4679.9	4399.5	4198.9	4007.9	3918.5	3877.4	3860.5
7.5°	5973.2	5678.3	5110.2	4556.7	4128.8	3778.3	3500.3	3292.4	3188.5	3144.9	3128.0
10°	6086.8	5659.0	4841.9	4111.9	3565.6	3202.9	2927.4	2721.9	2608.3	2560.0	2535.8
12.5°	6219.8	5625.2	4532.5	3662.3	3084.5	2721.9	2388.3	2134.5	2003.9	1948.3	1921.8
15°	6384.2	5591.2	4208.5	3239.2	2661.5	2219.1	1854.1	1682.5	1655.8	1646.2	1648.7
17.5°	6546.2	5538.1	3855.7	2821.0	2216.7	1733.2	1547.1	1537.4	1542.3	1542.3	1542.3
20°	6691.1	5417.2	3471.3	2463.3	1793.7	1462.5	1423.8	1406.9	1394.8	1385.1	1373.0
22.5°	6804.8	5255.2	3101.4	2107.9	1464.9	1339.2	1278.7	1225.5	1182.0	1153.1	1138.5
25°	6882.2	5040.1	2763.0	1767.1	1317.5	1218.4	1109.6	1020.1	952.4	911.3	894.4
27.5°	6940.1	4808.1	2460.9	1479.4	1215.9	1078.2	935.5	829.2	759.0	722.8	708.3
30°	6981.2	4544.6	2194.9	1300.5	1102.3	930.7	778.4	674.4	623.7	604.3	594.7
32.5°	7020.0	4252.0	1943.5	1215.9	995.9	795.3	652.6	572.9	541.5	517.3	510.0
35°	7116.7	3981.3	1704.2	1126.5	887.2	679.3	560.8	502.8	471.4	456.8	452.1
37.5°	7346.3	3780.7	1474.5	1034.6	778.4	587.4	490.7	449.7	420.6	406.2	401.3
40°	7716.1	3679.1	1281.2	935.5	672.0	517.3	444.8	406.2	374.7	353.0	348.1
42.5°	8260.0	3693.7	1145.8	836.4	587.4	461.7	401.3	355.4	321.5	302.2	297.3
45°	8919.9	3800.1	1051.5	739.7	517.3	418.2	353.0	304.6	273.1	256.3	251.4
47.5°	9635.5	3971.7	974.2	652.6	461.7	377.1	304.6	253.8	227.2	212.8	210.3
50°	10389.6	4138.5	894.4	568.1	413.3	336.0	256.3	210.3	188.5	176.4	171.6
52.5°	11153.5	4331.9	821.9	490.7	372.2	287.7	212.8	171.6	154.7	145.0	140.2
55°	11975.4	4476.9	751.8	430.3	331.2	244.2	176.4	142.6	128.1	116.1	113.6
57.5°	12942.4	4701.7	679.3	372.2	282.8	203.1	145.0	113.6	101.5	89.4	87.0
60°	14247.7	4965.1	601.9	328.7	232.0	166.8	118.5	91.9	77.3	67.7	65.3
62.5°	15968.9	5257.7	505.2	287.7	188.5	135.4	94.3	72.5	55.6	43.5	43.5
65°	18151.8	5733.9	413.3	241.7	154.7	111.2	72.5	53.2	31.4	19.4	19.4
67.5°	19425.7	5816.1	333.6	198.2	125.7	94.3	60.5	36.2	9.7	2.4	0.0
69°	19017.2	5339.9	282.8	169.2	108.8	89.4	55.6	26.5	4.8	0.0	0.0
70°	18248.5	4883.0	249.0	149.9	99.1	84.6	53.2	19.4	4.8	0.0	0.0
72.5°	15079.3	3476.2	188.5	111.2	72.5	74.9	48.3	12.1	4.8	0.0	0.0
75°	10984.3	2112.7	135.4	77.3	45.9	55.6	33.8	4.8	2.4	0.0	0.0
77.5°	6111.0	995.9	84.6	43.5	29.0	33.8	17.0	0.0	0.0	0.0	0.0
80°	1984.7	270.7	38.7	24.1	17.0	19.4	7.3	0.0	0.0	0.0	0.0
82.5°	367.4	77.3	21.8	12.1	4.8	4.8	0.0	0.0	0.0	0.0	0.0
85°	79.7	31.4	12.1	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	9.7	2.4	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)