

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: P648008

Luminaire Tested: **GALN-SA6A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16999.7 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

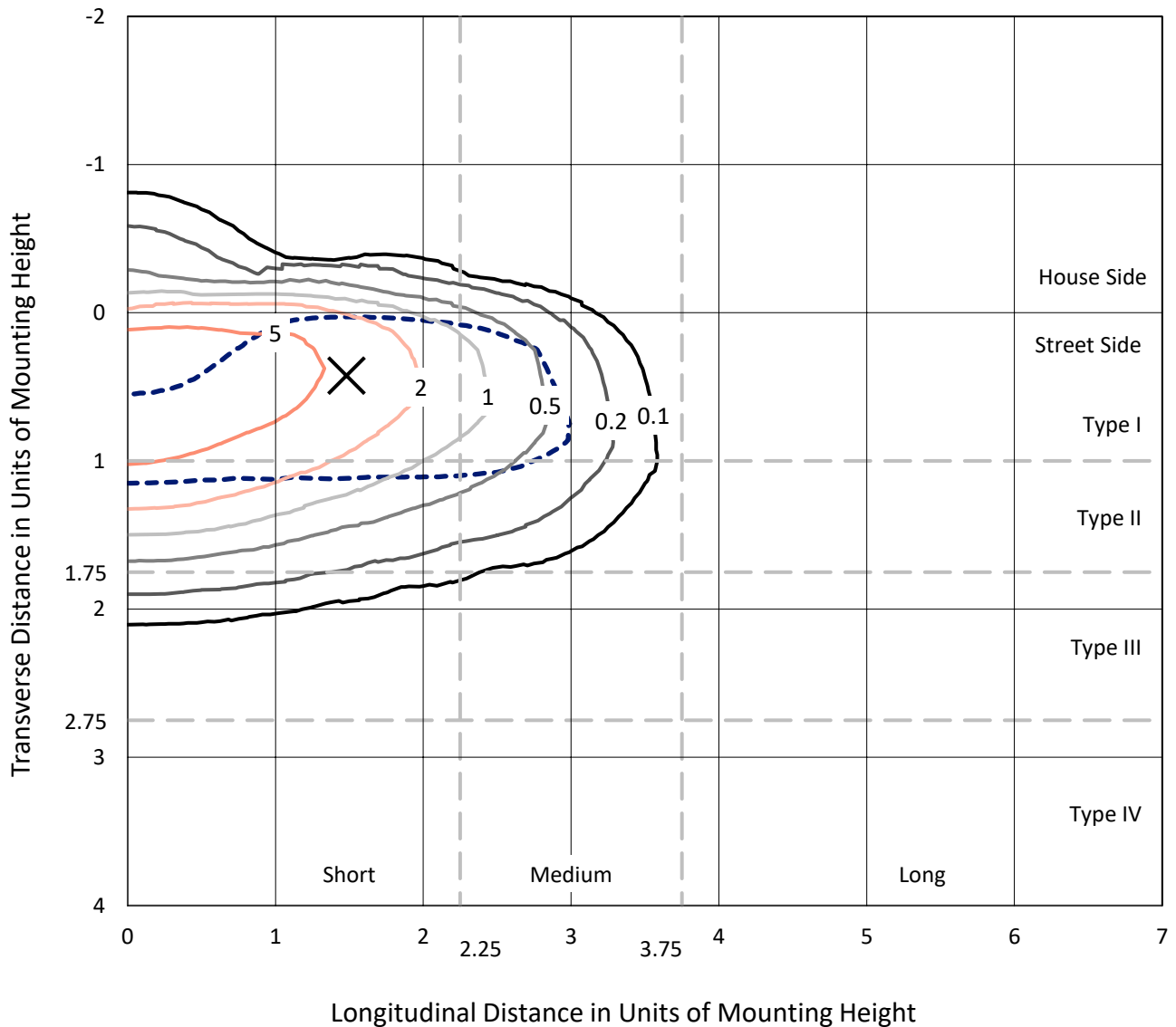
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

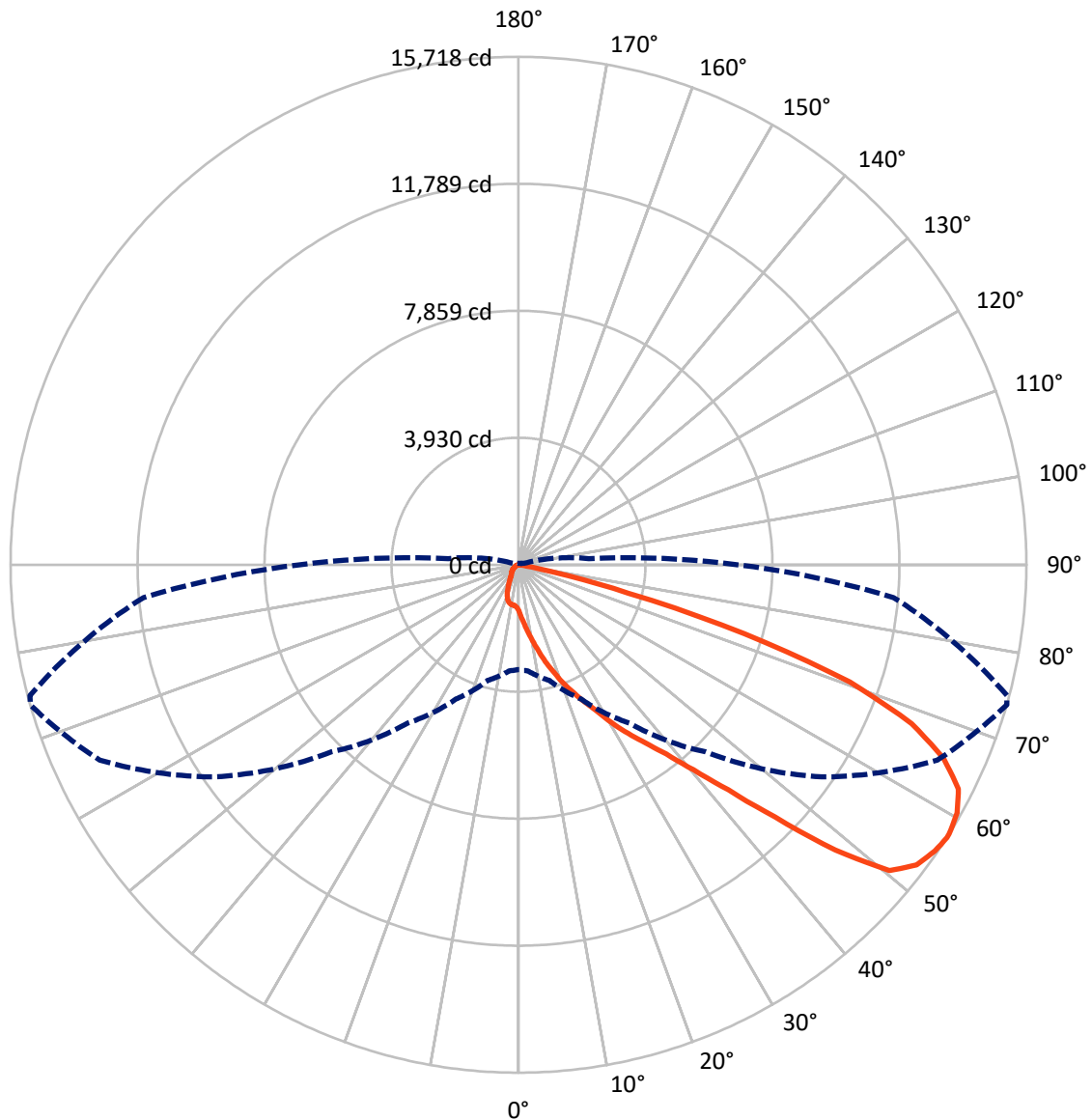
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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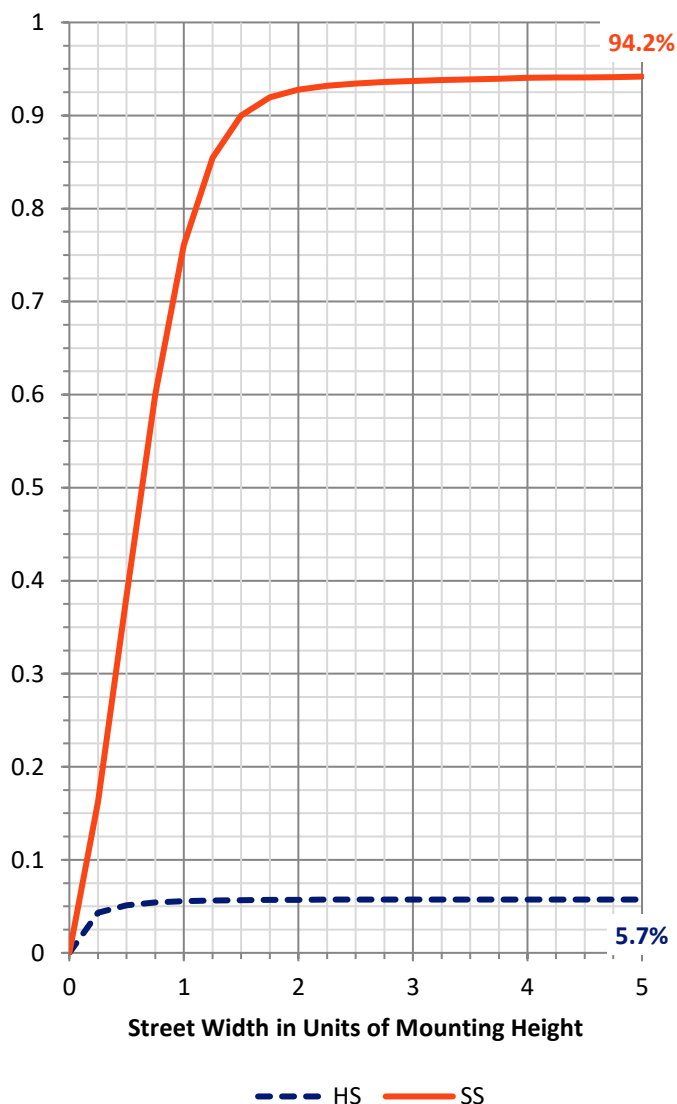
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.5	0.0	980.5
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	16019.2	0.0	16019.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	16999.7	0.0	16999.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.8	1.0
10°-20°	677.3	4.0
20°-30°	1449.3	8.5
30°-40°	2663.9	15.7
40°-50°	4083.8	24.0
50°-60°	4320.1	25.4
60°-70°	2821.1	16.6
70°-80°	770.8	4.5
80°-90°	41.5	0.2
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°	16999.7	100.0
0°-180°	16999.7	100.0

Coefficient of Utilization



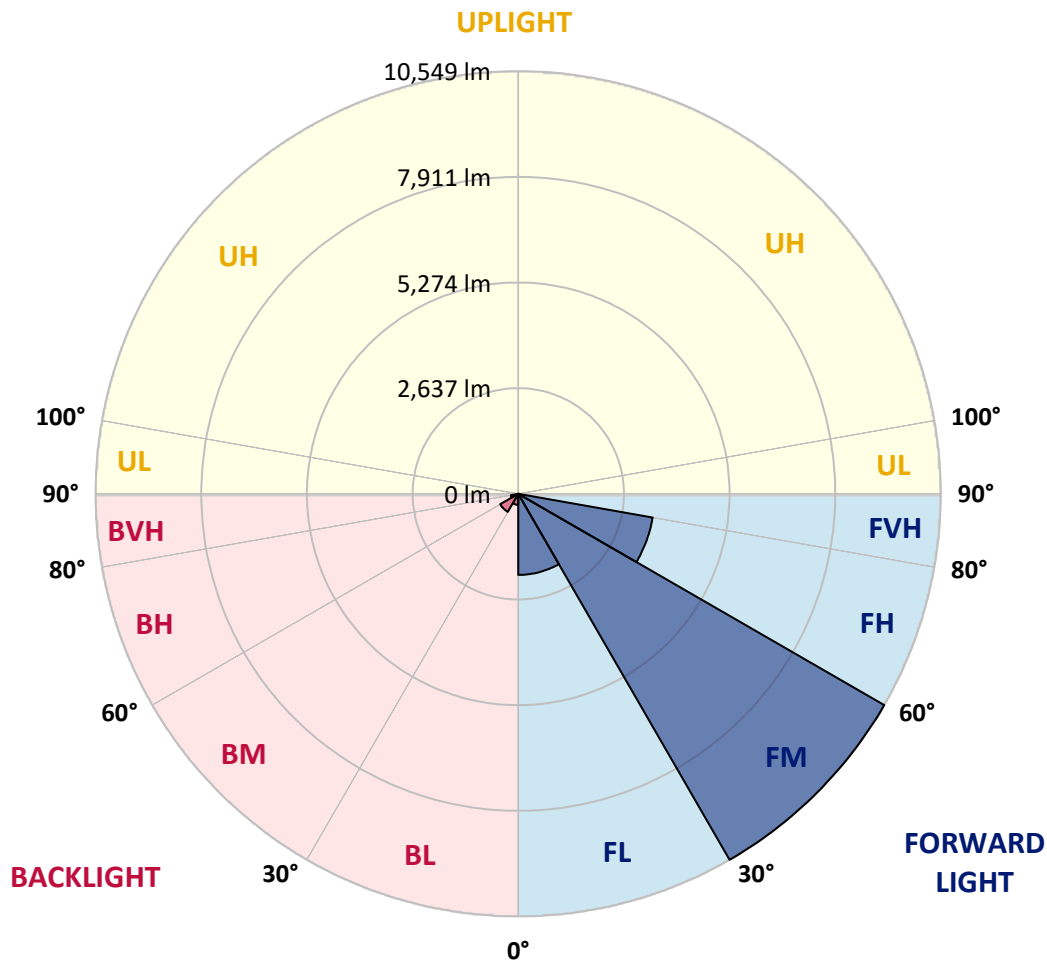
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.6	11.9			
FM (30°-60°)	10548.6	62.1			
FH (60°-80°)	3407.9	20.0			G2/5000
FVH (80°-90°)	38.1	0.2			G1/100
BL (0°-30°)	273.9	1.6	B1/500		
BM (30°-60°)	519.1	3.1	B1/1000		
BH (60°-80°)	184.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7
2.5°	2083.3	2064.5	2027.0	2014.1	1958.9	1873.2	1798.1	1697.2	1617.4	1609.1	1512.9
5°	2789.9	2747.6	2730.0	2645.5	2512.9	2388.5	2174.9	2012.9	1826.3	1812.2	1618.5
7.5°	3470.6	3411.9	3394.4	3314.5	3159.6	2963.6	2686.6	2392.0	2096.2	2069.2	1760.6
10°	3963.6	3971.8	3940.1	3887.3	3761.7	3562.2	3220.6	2818.1	2396.7	2362.7	1920.2
12.5°	4316.9	4315.7	4321.6	4320.4	4253.5	4102.1	3743.0	3279.4	2727.7	2660.8	2103.3
15°	4547.0	4550.5	4568.0	4629.1	4636.1	4542.3	4242.9	3720.7	3111.5	3028.2	2301.6
17.5°	4779.4	4803.9	4832.1	4889.7	4941.3	4903.8	4692.4	4180.8	3458.9	3396.7	2514.1
20°	5163.1	5197.2	5180.7	5216.0	5243.0	5246.5	5083.3	4605.6	3880.2	3775.8	2757.0
22.5°	5777.0	5775.8	5733.5	5670.2	5617.3	5615.0	5467.1	5042.2	4262.9	4162.0	3001.2
25°	6552.8	6556.3	6474.2	6293.4	6162.0	6001.1	5831.0	5424.9	4672.6	4548.1	3258.2
27.5°	7442.5	7420.2	7295.8	7046.9	6786.3	6511.7	6266.4	5869.7	5106.8	5003.5	3552.8
30°	8241.8	8233.6	8088.0	7784.0	7441.3	7165.5	6809.8	6427.2	5669.0	5542.2	3882.6
32.5°	8985.9	8997.6	8795.8	8481.2	8150.2	7832.1	7456.5	6960.1	6220.6	6041.1	4241.7
35°	9566.9	9578.6	9369.7	9107.9	8767.6	8503.5	8145.5	7528.2	6765.2	6613.8	4654.9
37.5°	9876.8	9892.0	9771.1	9573.9	9361.5	9228.8	8895.5	8259.4	7427.2	7335.7	5143.1
40°	9935.4	9953.0	9900.2	9847.4	9835.7	9930.7	9833.3	9120.9	8345.1	8201.8	5870.9
42.5°	9759.4	9782.8	9806.3	9923.7	10163.1	10511.7	10850.9	10289.9	9527.0	9334.5	6760.5
45°	9297.0	9294.6	9387.3	9691.3	10227.6	10971.8	11914.3	11753.5	11137.3	10908.4	8017.6
47.5°	8505.8	8494.1	8694.8	9127.9	9963.6	11056.3	12781.6	13530.5	13192.5	12981.2	9368.5
50°	7300.5	7357.9	7673.7	8278.1	9307.4	10800.5	13049.2	14696.0	14879.0	14654.9	10460.0
52.5°	5888.5	5886.1	6381.4	7201.9	8335.7	10237.0	12862.7	14907.2	15427.1	15255.8	10997.6
55°	4357.9	4388.5	4903.8	5731.2	7073.9	9208.9	12253.5	14690.1	15636.1	15515.2	11352.1
57°	3241.8	3295.7	3708.9	4584.5	5975.3	8191.3	11442.4	14301.6	15718.3	15652.6	11646.7
57.5°	3025.8	3028.2	3430.7	4226.5	5653.7	7800.4	11210.1	14139.6	15715.9	15679.5	11694.8
60°	1862.7	1921.3	2199.5	2856.8	4138.5	6088.0	9652.5	13208.9	15593.8	15646.7	11900.2
62.5°	1115.0	1139.7	1320.5	1721.8	2667.8	4443.7	7899.1	12017.6	15275.8	15436.5	11886.1
65°	717.1	723.0	805.2	1042.3	1667.9	3003.5	6086.8	10443.7	14453.0	14748.7	11421.3
67.5°	554.0	563.4	596.3	684.3	967.2	1870.9	4305.2	8764.0	13122.0	13503.5	10294.6
70°	491.8	496.5	508.2	536.4	639.6	1056.3	2678.4	6846.2	10881.4	10989.4	8056.3
72.5°	401.4	414.3	450.7	460.1	507.1	659.6	1490.6	4595.0	7311.0	7338.0	4507.0
75°	311.0	313.4	367.4	394.4	427.2	454.2	665.5	2316.9	3511.8	3323.9	1737.1
77.5°	232.4	243.0	267.6	301.6	348.6	325.1	298.1	873.2	1090.4	1070.4	504.7
80°	149.1	155.0	186.6	226.5	271.2	212.4	167.9	255.9	239.4	246.5	120.9
82.5°	75.1	76.3	119.7	184.2	172.6	106.8	105.6	104.5	89.2	88.0	56.4
85°	8.2	17.6	77.4	105.6	77.4	35.2	49.3	48.2	47.0	48.2	32.9
87.5°	1.2	1.2	12.9	15.3	10.6	11.7	14.1	15.3	18.8	17.6	14.1
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°	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7
2.5°	1465.9	1419.0	1332.1	1248.8	1186.6	1146.7	1095.1	1076.3	1049.3	1045.8	1032.9
5°	1529.4	1440.2	1288.7	1169.0	1072.8	1000.0	936.6	883.8	841.6	832.2	836.9
7.5°	1619.7	1487.1	1275.8	1112.6	978.9	854.5	753.5	691.3	646.7	630.3	632.7
10°	1721.8	1549.3	1273.5	1052.8	848.6	696.0	585.7	530.5	504.7	495.3	484.8
12.5°	1842.7	1620.9	1267.6	960.1	705.4	555.1	476.5	443.6	419.0	411.9	411.9
15°	1978.9	1697.2	1239.4	845.1	572.8	458.9	406.1	380.3	372.1	365.0	365.0
17.5°	2120.9	1772.3	1180.8	703.1	475.4	393.2	360.3	345.1	333.3	325.1	325.1
20°	2282.8	1846.2	1086.9	577.5	401.4	350.9	325.1	307.5	298.1	291.0	288.8
22.5°	2436.6	1906.1	967.2	474.2	349.8	315.7	292.2	273.5	264.1	260.6	260.6
25°	2596.3	1942.5	822.8	392.0	319.2	286.4	260.6	245.3	237.1	234.7	233.6
27.5°	2751.1	1963.6	696.0	342.7	291.0	259.4	234.7	223.0	214.8	212.4	213.6
30°	2939.0	1967.1	572.8	307.5	266.5	233.6	211.3	200.7	196.0	193.6	192.5
32.5°	3129.1	1962.4	481.2	286.4	243.0	211.3	192.5	184.2	180.7	177.2	177.2
35°	3342.7	1937.8	409.6	265.3	220.6	192.5	176.0	169.0	164.4	160.8	159.7
37.5°	3608.0	1924.8	368.6	241.8	200.7	174.8	159.7	152.6	149.1	144.4	143.2
40°	4025.8	1982.4	355.6	220.6	180.7	158.5	144.4	136.2	131.5	126.8	125.6
42.5°	4547.0	2083.3	334.5	199.5	163.2	143.2	129.1	119.7	111.5	105.6	103.3
45°	5221.8	2216.0	301.6	177.2	147.9	126.8	113.8	102.1	91.5	86.8	85.7
47.5°	5929.6	2343.9	272.3	159.7	131.5	112.7	98.6	85.7	76.3	72.7	71.6
50°	6363.8	2369.7	253.5	139.7	115.0	97.4	83.3	71.6	65.7	62.2	62.2
52.5°	6562.2	2328.6	227.7	122.1	99.8	85.7	71.6	62.2	58.6	56.4	55.2
55°	6700.7	2265.2	193.6	105.6	85.7	72.7	63.3	56.4	51.7	49.3	48.2
57°	6781.6	2179.6	167.9	92.7	73.9	63.3	56.4	50.5	45.8	41.1	41.1
57.5°	6785.2	2146.7	160.8	91.5	70.4	61.0	55.2	49.3	43.5	38.8	37.6
60°	6680.7	1921.3	129.1	77.4	56.4	51.7	45.8	38.8	30.5	25.8	24.7
62.5°	6345.0	1635.0	106.8	65.7	45.8	39.9	32.9	29.4	21.1	15.3	15.3
65°	5836.8	1326.3	91.5	52.9	37.6	29.4	22.3	21.1	12.9	7.0	5.9
67.5°	5102.1	1032.9	77.4	43.5	31.7	21.1	15.3	14.1	7.0	2.3	0.0
70°	3887.3	704.2	64.5	35.2	23.5	15.3	10.6	8.2	4.7	1.2	0.0
72.5°	2240.6	387.4	54.0	27.0	17.6	11.7	8.2	4.7	4.7	0.0	0.0
75°	800.5	166.7	41.1	20.0	14.1	9.4	5.9	2.3	3.5	1.2	0.0
77.5°	254.7	89.2	27.0	15.3	11.7	7.0	4.7	2.3	2.3	1.2	0.0
80°	75.1	47.0	16.4	12.9	8.2	5.9	3.5	1.2	2.3	1.2	0.0
82.5°	41.1	23.5	12.9	9.4	8.2	4.7	3.5	1.2	1.2	1.2	0.0
85°	21.1	14.1	10.6	9.4	8.2	4.7	3.5	1.2	0.0	1.2	1.2
87.5°	11.7	10.6	10.6	9.4	8.2	5.9	3.5	1.2	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)