

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: P648063

Luminaire Tested: **GALN-SA7A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648063
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-SA7A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 19968 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

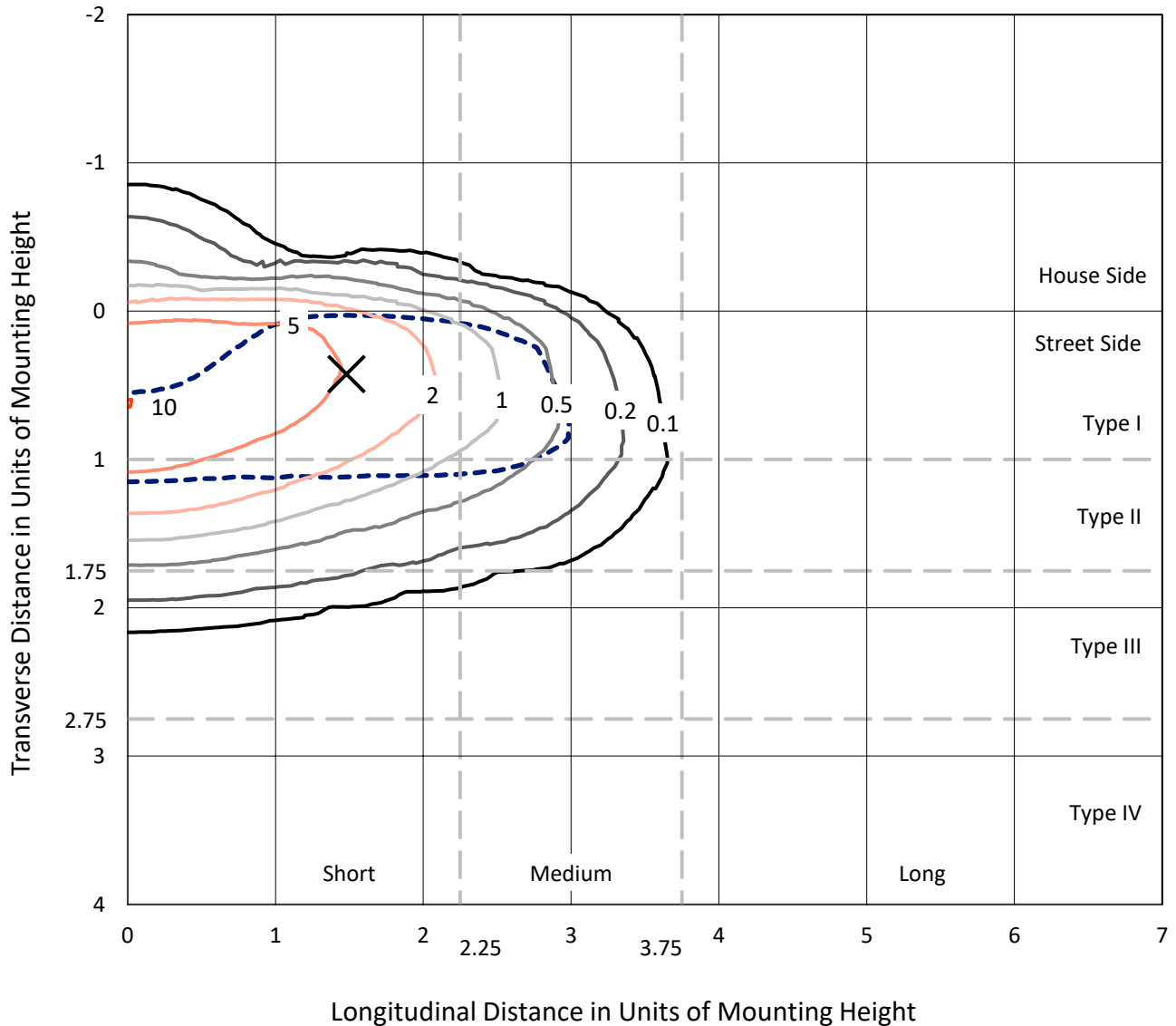
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

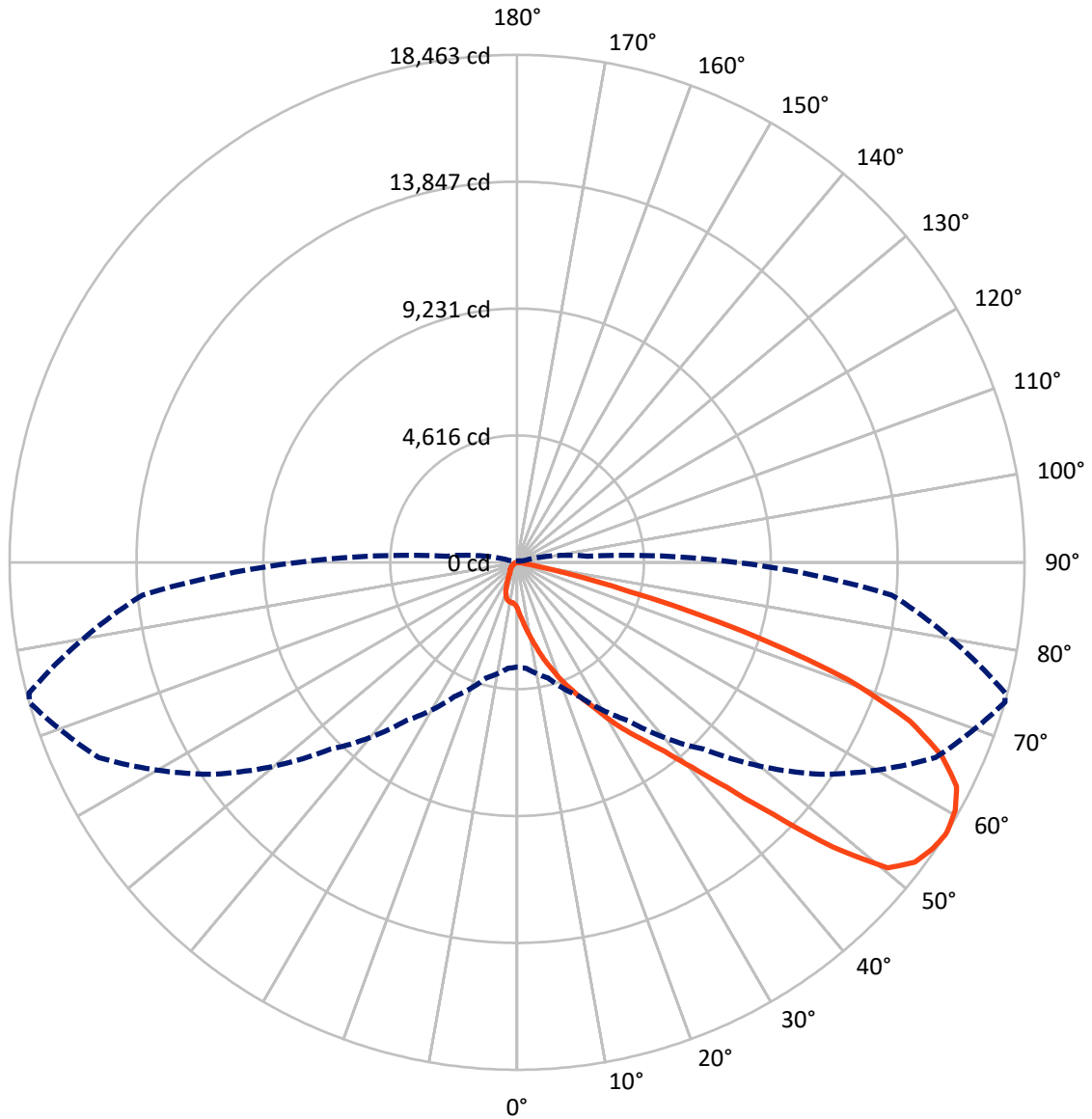
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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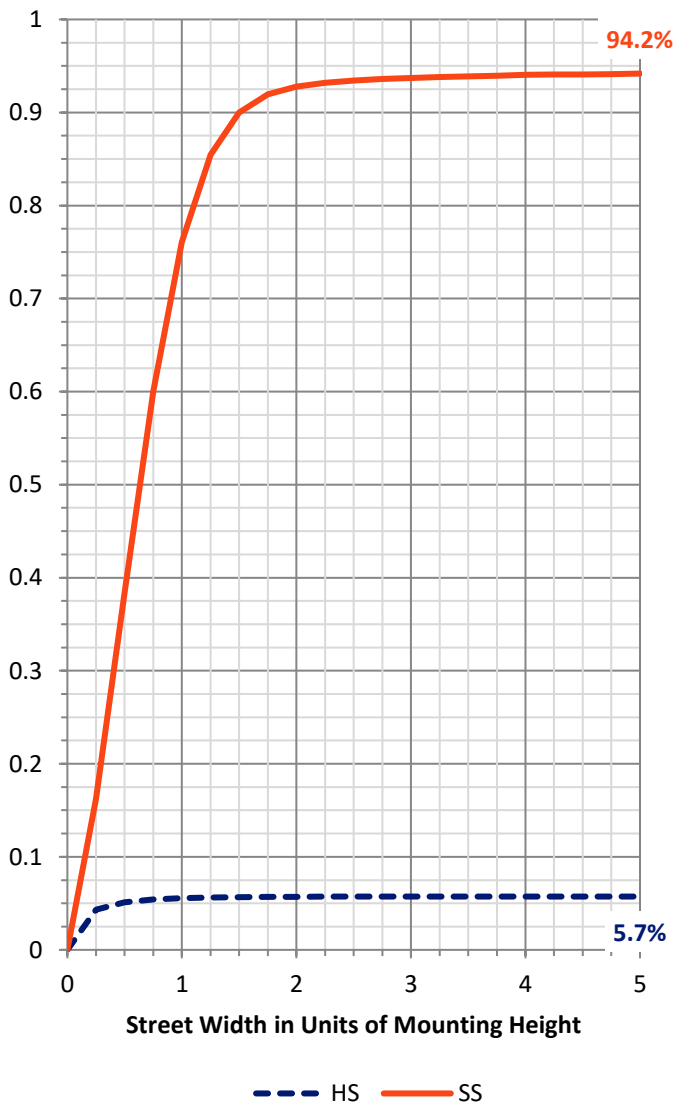
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.7	0.0	1151.7
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	18816.4	0.0	18816.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	19968.0	0.0	19968.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.0
10°-20°	795.6	4.0
20°-30°	1702.4	8.5
30°-40°	3129.0	15.7
40°-50°	4796.8	24.0
50°-60°	5074.4	25.4
60°-70°	3313.7	16.6
70°-80°	905.4	4.5
80°-90°	48.7	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°	19968.0	100.0
0°-180°	19968.0	100.0

Coefficient of Utilization



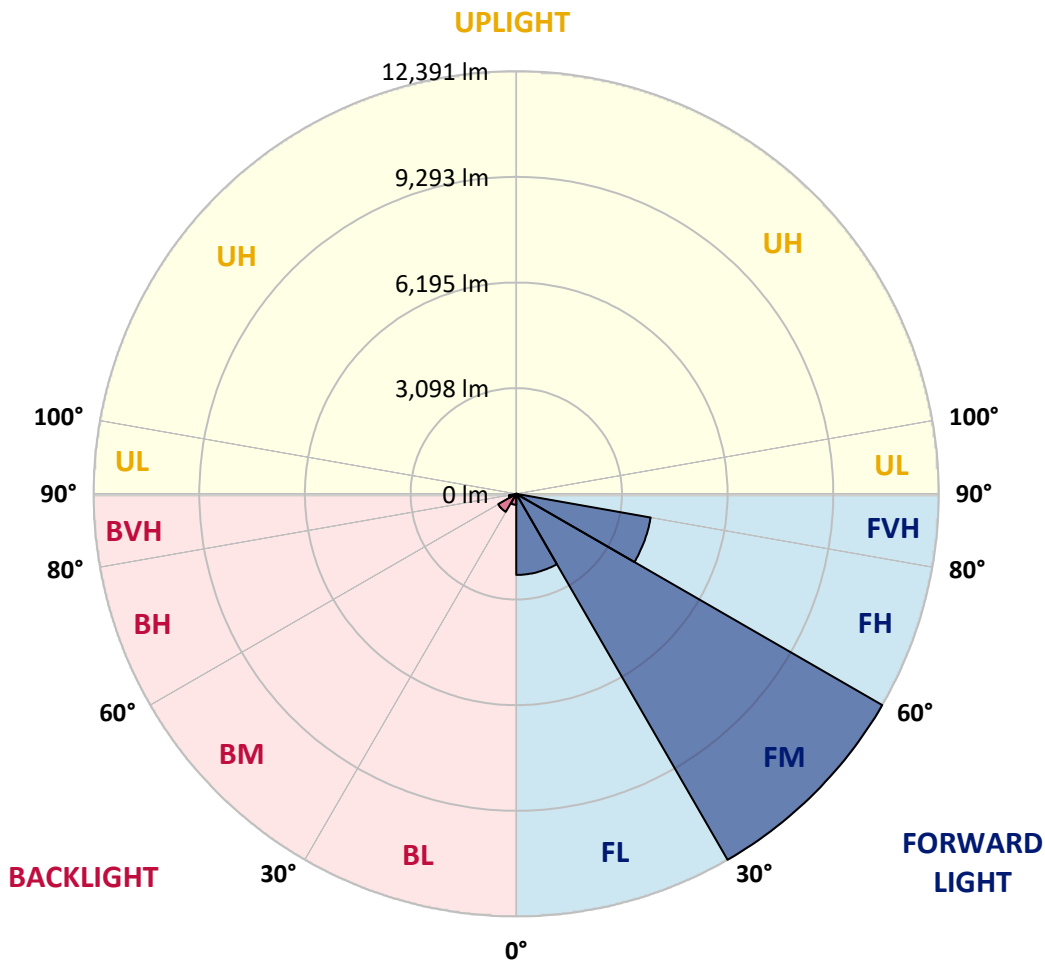
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2378.2	11.9			
FM (30°-60°)	12390.5	62.1			
FH (60°-80°)	4002.9	20.0			G2/5000
FVH (80°-90°)	44.7	0.2			G1/100
BL (0°-30°)	321.7	1.6	B1/500		
BM (30°-60°)	609.7	3.1	B1/1000		
BH (60°-80°)	216.2	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3
2.5°	2447.1	2425.0	2380.9	2365.8	2300.9	2200.3	2112.1	1993.5	1899.8	1890.2	1777.1
5°	3277.0	3227.4	3206.7	3107.5	2951.7	2805.6	2554.6	2364.3	2145.2	2128.7	1901.1
7.5°	4076.7	4007.7	3987.0	3893.3	3711.3	3481.1	3155.7	2809.7	2462.3	2430.6	2068.0
10°	4655.7	4665.3	4628.2	4566.1	4418.5	4184.2	3783.0	3310.1	2815.2	2775.2	2255.4
12.5°	5070.6	5069.3	5076.2	5074.8	4996.2	4818.3	4396.5	3852.0	3204.0	3125.4	2470.5
15°	5340.8	5345.0	5365.7	5437.4	5445.7	5335.4	4983.8	4370.3	3654.8	3556.9	2703.5
17.5°	5613.9	5642.8	5675.9	5743.5	5804.1	5760.0	5511.9	4910.7	4062.9	3989.8	2953.1
20°	6064.6	6104.7	6085.3	6126.7	6158.5	6162.5	5970.9	5409.8	4557.8	4435.1	3238.4
22.5°	6785.7	6784.3	6734.7	6660.3	6598.2	6595.4	6421.8	5922.7	5007.3	4888.7	3525.2
25°	7697.0	7701.1	7604.7	7392.3	7237.9	7049.0	6849.1	6372.1	5488.4	5342.3	3827.1
27.5°	8742.0	8715.8	8569.7	8277.4	7971.3	7648.7	7360.6	6894.6	5998.5	5877.2	4173.2
30°	9680.9	9671.2	9500.3	9143.2	8740.6	8416.6	7998.9	7549.5	6658.9	6509.9	4560.6
32.5°	10554.9	10568.7	10331.6	9962.1	9573.3	9199.7	8758.6	8175.4	7306.8	7095.9	4982.5
35°	11237.4	11251.2	11005.8	10698.3	10298.5	9988.3	9567.8	8842.7	7946.5	7768.7	5467.7
37.5°	11601.3	11619.3	11477.2	11245.6	10996.1	10840.3	10448.7	9701.5	8724.1	8616.5	6041.2
40°	11670.2	11690.9	11628.9	11566.9	11553.1	11664.7	11550.3	10713.5	9802.2	9634.0	6896.0
42.5°	11463.4	11491.0	11518.6	11656.4	11937.7	12347.2	12745.6	12086.6	11190.5	10964.3	7941.0
45°	10920.3	10917.5	11026.4	11383.5	12013.6	12887.6	13994.6	13805.8	13082.0	12813.2	9417.5
47.5°	9991.1	9977.3	10213.0	10721.8	11703.3	12986.8	15013.5	15893.0	15496.0	15247.8	11004.4
50°	8575.2	8642.8	9013.6	9723.6	10932.6	12686.3	15327.8	17262.0	17477.1	17213.8	12286.5
52.5°	6916.7	6913.9	7495.7	8459.4	9791.2	12024.5	15108.6	17510.2	18121.0	17919.7	12917.9
55°	5118.9	5154.8	5760.0	6731.9	8309.1	10816.8	14393.1	17255.1	18366.4	18224.3	13334.3
57°	3807.8	3871.2	4356.5	5385.0	7018.7	9621.6	13440.4	16798.8	18462.8	18385.6	13680.3
57.5°	3554.1	3556.9	4029.8	4964.5	6640.9	9162.5	13167.5	16608.6	18460.1	18417.3	13736.9
60°	2187.9	2256.8	2583.6	3355.6	4861.1	7151.1	11338.0	15515.3	18316.7	18378.7	13978.1
62.5°	1309.7	1338.7	1551.0	2022.5	3133.6	5219.6	9278.3	14116.0	17943.1	18132.0	13961.6
65°	842.4	849.2	945.8	1224.2	1959.1	3528.0	7149.7	12267.2	16976.7	17324.1	13415.6
67.5°	650.8	661.7	700.3	803.7	1136.0	2197.6	5056.8	10294.3	15413.3	15861.3	12092.1
70°	577.6	583.2	597.0	630.1	751.4	1240.8	3146.1	8041.6	12781.5	12908.3	9463.0
72.5°	471.5	486.6	529.4	540.4	595.5	774.8	1750.9	5397.4	8587.6	8619.3	5294.0
75°	365.3	368.1	431.5	463.2	501.8	533.5	781.7	2721.5	4124.9	3904.4	2040.4
77.5°	273.0	285.4	314.3	354.3	409.4	381.9	350.2	1025.7	1280.8	1257.3	592.8
80°	175.1	182.0	219.2	266.1	318.4	249.5	197.2	300.5	281.3	289.6	142.0
82.5°	88.2	89.6	140.6	216.4	202.6	125.4	124.1	122.7	104.8	103.4	66.2
85°	9.6	20.7	91.0	124.1	91.0	41.3	57.9	56.5	55.1	56.5	38.6
87.5°	1.4	1.4	15.2	17.9	12.4	13.8	16.5	17.9	22.1	20.7	16.5
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°	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3	1672.3
2.5°	1721.9	1666.8	1564.7	1466.9	1393.8	1346.9	1286.3	1264.2	1232.5	1228.4	1213.2
5°	1796.4	1691.6	1513.8	1373.1	1260.1	1174.6	1100.2	1038.1	988.5	977.5	983.0
7.5°	1902.5	1746.7	1498.6	1307.0	1149.8	1003.6	885.1	812.0	759.7	740.3	743.1
10°	2022.5	1819.8	1495.8	1236.7	996.8	817.5	687.9	623.1	592.8	581.8	569.4
12.5°	2164.4	1903.9	1489.0	1127.8	828.6	652.1	559.8	521.2	492.2	483.9	483.9
15°	2324.4	1993.5	1455.8	992.6	672.8	539.0	477.0	446.7	437.0	428.8	428.8
17.5°	2491.2	2081.8	1386.9	825.8	558.4	461.8	423.2	405.4	391.5	381.9	381.9
20°	2681.5	2168.6	1276.6	678.3	471.5	412.2	381.9	361.2	350.2	341.9	339.1
22.5°	2862.1	2238.9	1136.0	556.9	410.8	370.8	343.3	321.2	310.2	306.1	306.1
25°	3049.6	2281.7	966.5	460.5	375.0	336.4	306.1	288.1	278.5	275.7	274.4
27.5°	3231.5	2306.5	817.5	402.5	341.9	304.7	275.7	261.9	252.3	249.5	251.0
30°	3452.2	2310.6	672.8	361.2	313.0	274.4	248.1	235.8	230.2	227.5	226.1
32.5°	3675.5	2305.1	565.2	336.4	285.4	248.1	226.1	216.4	212.3	208.2	208.2
35°	3926.4	2276.2	481.2	311.6	259.2	226.1	206.8	198.5	193.0	188.9	187.5
37.5°	4238.0	2261.0	432.9	284.0	235.8	205.4	187.5	179.2	175.1	169.6	168.2
40°	4728.8	2328.6	417.7	259.2	212.3	186.1	169.6	159.9	154.4	148.9	147.5
42.5°	5340.8	2447.1	392.9	234.4	191.6	168.2	151.7	140.6	131.0	124.1	121.3
45°	6133.6	2602.8	354.3	208.2	173.7	148.9	133.7	120.0	107.5	102.0	100.6
47.5°	6964.9	2753.2	319.9	187.5	154.4	132.3	115.8	100.6	89.6	85.5	84.1
50°	7475.1	2783.5	297.8	164.0	135.1	114.4	97.9	84.1	77.2	73.1	73.1
52.5°	7708.0	2735.3	267.5	143.4	117.2	100.6	84.1	73.1	68.9	66.2	64.8
55°	7870.7	2660.8	227.5	124.1	100.6	85.5	74.5	66.2	60.7	57.9	56.5
57°	7965.9	2560.2	197.2	108.9	86.8	74.5	66.2	59.3	53.8	48.2	48.2
57.5°	7970.0	2521.6	188.9	107.5	82.7	71.7	64.8	57.9	51.0	45.5	44.1
60°	7847.2	2256.8	151.7	91.0	66.2	60.7	53.8	45.5	35.9	30.3	29.0
62.5°	7453.0	1920.5	125.4	77.2	53.8	46.9	38.6	34.5	24.8	17.9	17.9
65°	6856.0	1557.9	107.5	62.0	44.1	34.5	26.2	24.8	15.2	8.3	6.9
67.5°	5993.0	1213.2	91.0	51.0	37.2	24.8	17.9	16.5	8.3	2.7	0.0
70°	4566.1	827.2	75.8	41.3	27.6	17.9	12.4	9.6	5.5	1.4	0.0
72.5°	2631.8	454.9	63.4	31.7	20.7	13.8	9.6	5.5	5.5	0.0	0.0
75°	940.2	195.8	48.2	23.4	16.5	11.0	6.9	2.7	4.1	1.4	0.0
77.5°	299.2	104.8	31.7	17.9	13.8	8.3	5.5	2.7	2.7	1.4	0.0
80°	88.2	55.1	19.3	15.2	9.6	6.9	4.1	1.4	2.7	1.4	0.0
82.5°	48.2	27.6	15.2	11.0	9.6	5.5	4.1	1.4	1.4	1.4	0.0
85°	24.8	16.5	12.4	11.0	9.6	5.5	4.1	1.4	0.0	1.4	1.4
87.5°	13.8	12.4	12.4	11.0	9.6	6.9	4.1	1.4	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)