

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: P648118

Luminaire Tested: **GALN-SA8A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648118
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-SA8A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 23149.4 lumens
Efficiency: N/A
Efficacy: 94.9 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

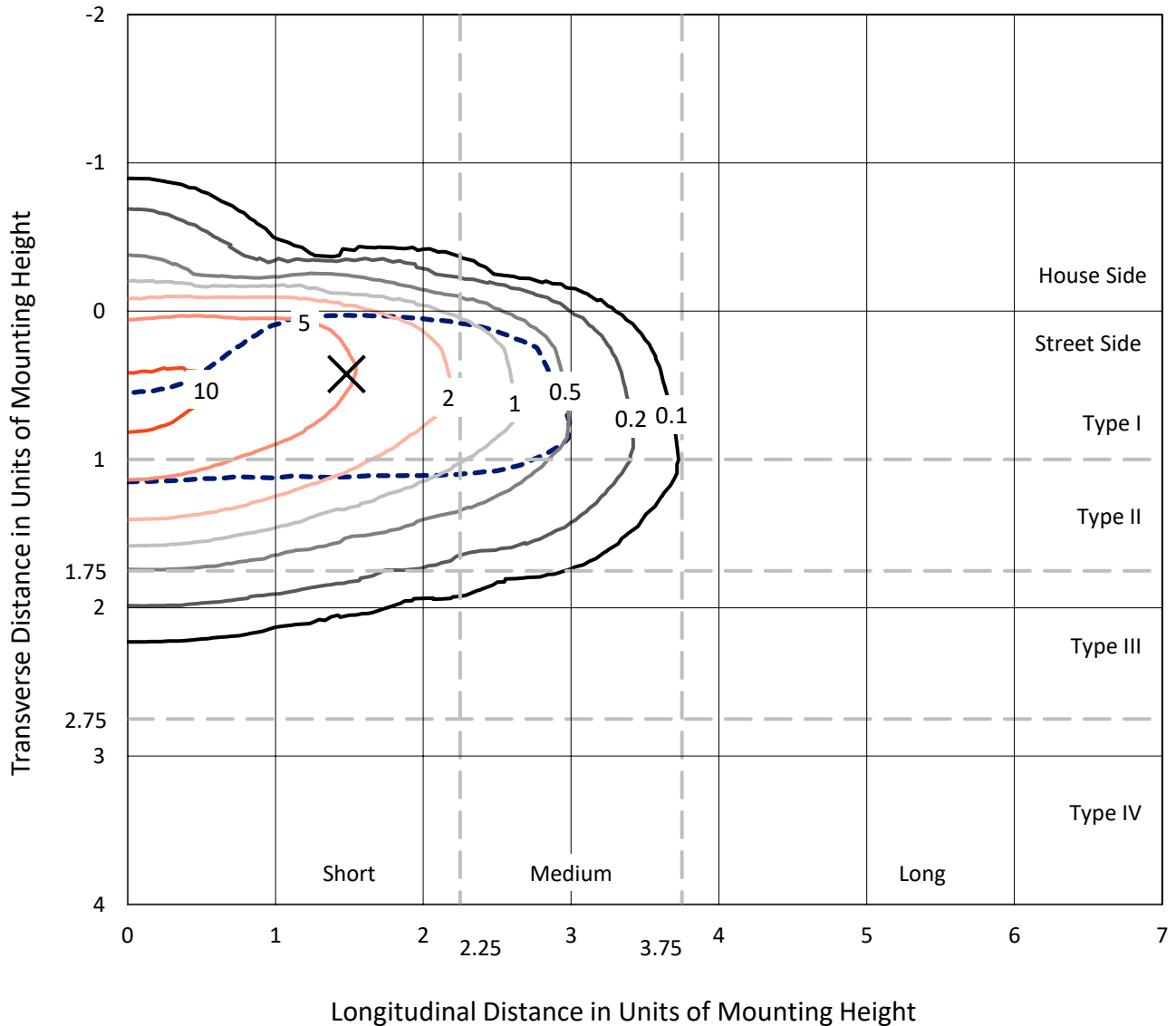
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648118
 CATALOG NUMBER: GALN-SA8A-835-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

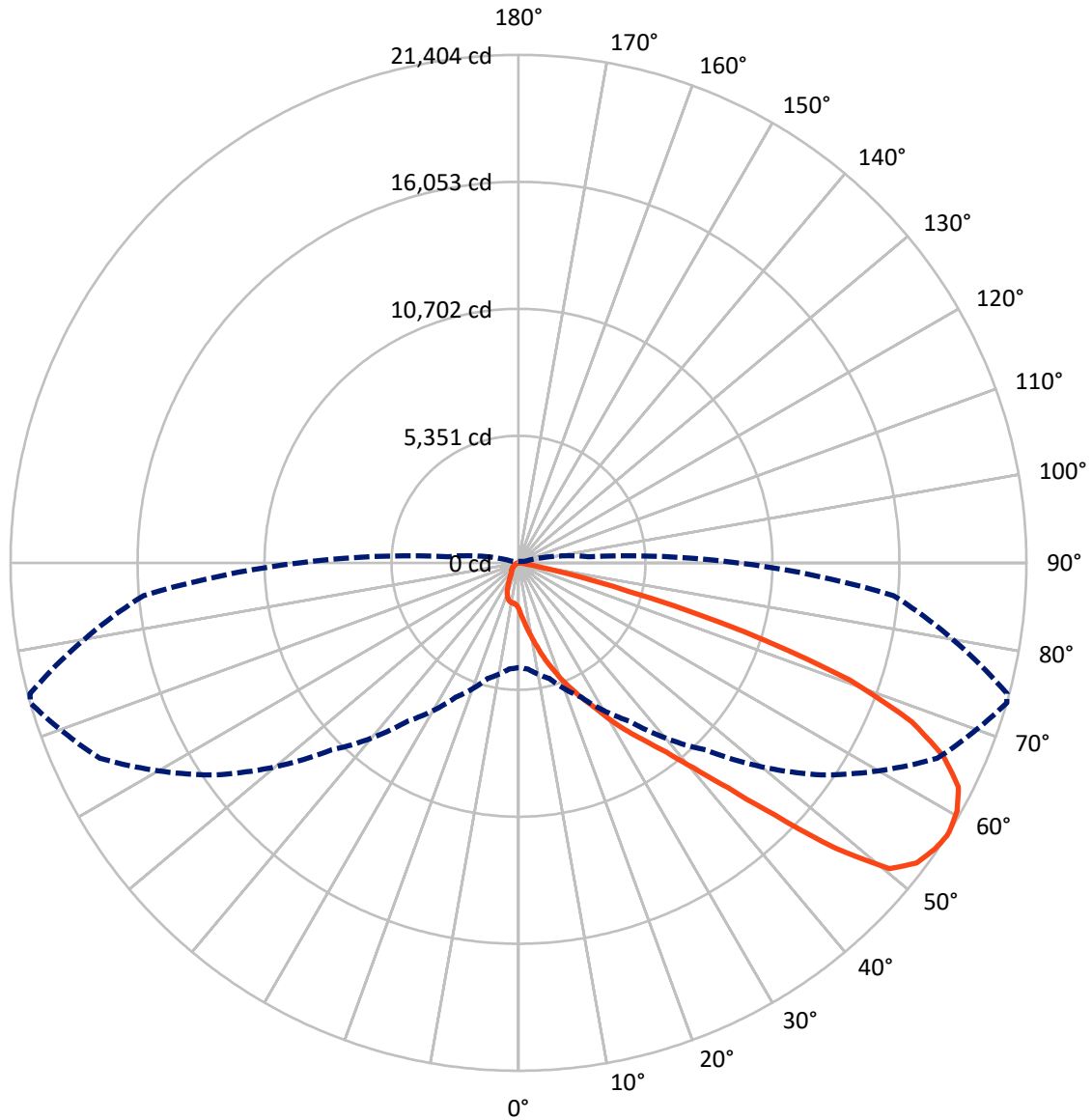
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

REPORT NUMBER: P648118
CATALOG NUMBER: GALN-SA8A-835-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P648118
 CATALOG NUMBER: GALN-SA8A-835-U-T2R-HSS

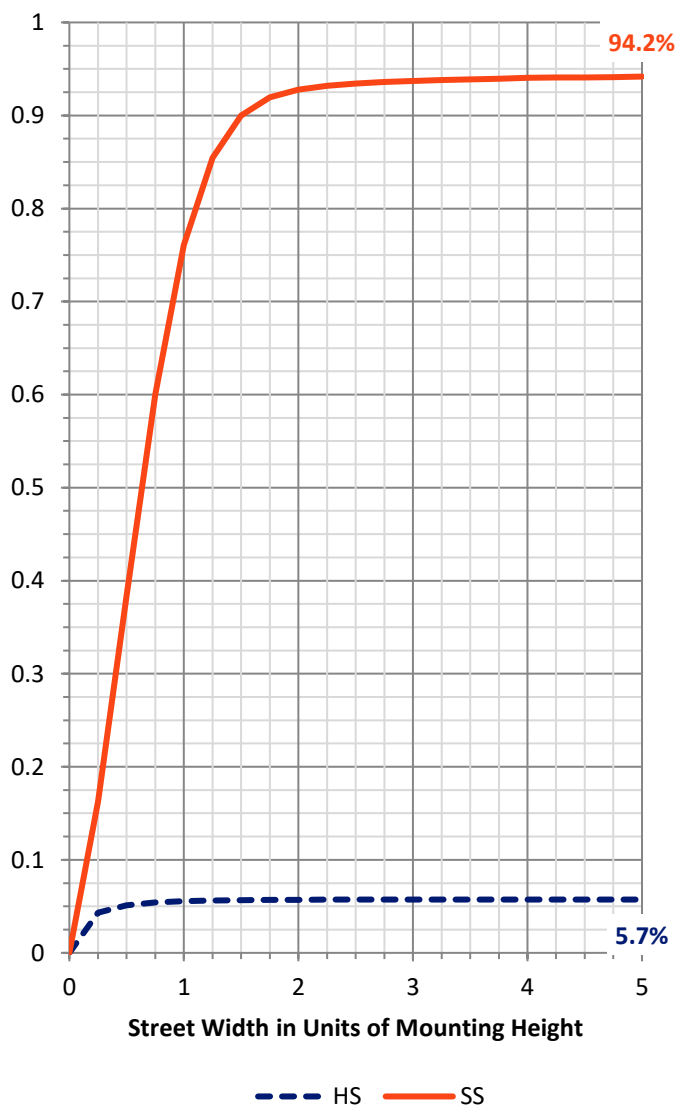
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.2	0.0	1335.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	21814.2	0.0	21814.2
	% Fixture	94.2	0.0	94.2
Total	Lumens	23149.4	0.0	23149.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.0	1.0
10°-20°	922.4	4.0
20°-30°	1973.6	8.5
30°-40°	3627.5	15.7
40°-50°	5561.1	24.0
50°-60°	5882.9	25.4
60°-70°	3841.7	16.6
70°-80°	1049.7	4.5
80°-90°	56.5	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°	23149.4	100.0
0°-180°	23149.4	100.0

Coefficient of Utilization

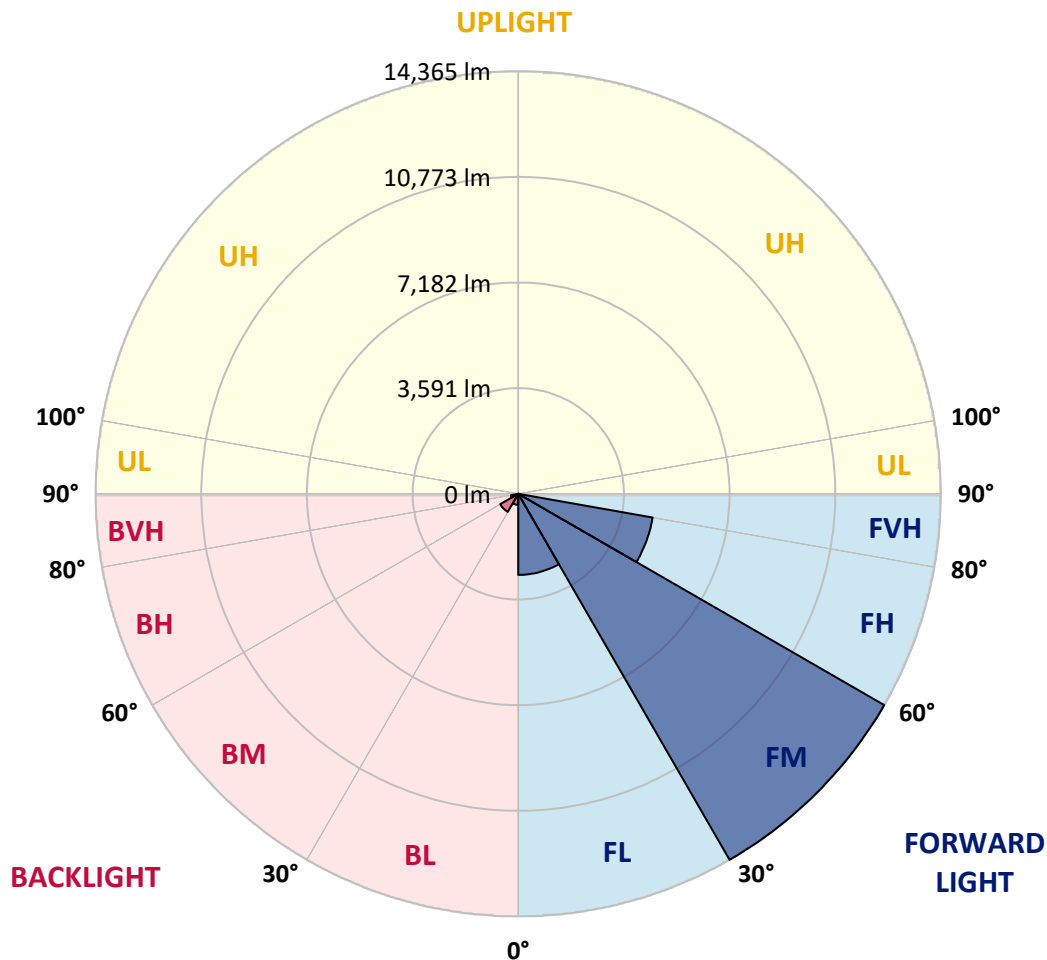


REPORT NUMBER: P648118
 CATALOG NUMBER: GALN-SA8A-835-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2757.1	11.9			
FM (30°-60°)	14364.6	62.1			
FH (60°-80°)	4640.7	20.0			G2/5000
FVH (80°-90°)	51.8	0.2			G1/100
BL (0°-30°)	373.0	1.6	B1/500		
BM (30°-60°)	706.9	3.1	B1/1000		
BH (60°-80°)	250.7	1.1	B1/500		G1/500
BVH (80°-90°)	4.7	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





REPORT NUMBER: P648118

CATALOG NUMBER: GALN-SA8A-835-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	2837.0	2811.4	2760.2	2742.7	2667.5	2550.9	2448.6	2311.1	2202.4	2191.2	2060.2
5°	3799.1	3741.6	3717.6	3602.6	3421.9	3252.5	2961.6	2741.0	2487.0	2467.8	2204.1
7.5°	4726.2	4646.2	4622.3	4513.6	4302.6	4035.7	3658.5	3257.4	2854.6	2817.8	2397.5
10°	5397.5	5408.7	5365.5	5293.5	5122.5	4850.8	4385.7	3837.5	3263.7	3217.3	2614.8
12.5°	5878.5	5877.0	5884.9	5883.3	5792.2	5586.1	5096.9	4465.6	3714.5	3623.3	2864.1
15°	6191.8	6196.6	6220.5	6303.7	6313.3	6185.4	5777.8	5066.6	4237.0	4123.6	3134.3
17.5°	6508.2	6541.8	6580.2	6658.5	6728.8	6677.7	6390.0	5693.1	4710.1	4625.5	3423.5
20°	7030.9	7077.2	7054.9	7102.8	7139.6	7144.4	6922.2	6271.7	5284.0	5141.7	3754.4
22.5°	7866.8	7865.2	7807.7	7721.4	7649.4	7646.2	7444.8	6866.3	5805.0	5667.6	4086.9
25°	8923.3	8928.1	8816.2	8570.1	8391.0	8172.1	7940.3	7387.3	6362.8	6193.4	4436.9
27.5°	10134.8	10104.5	9935.0	9596.1	9241.4	8867.3	8533.3	7993.1	6954.2	6813.5	4838.0
30°	11223.2	11212.0	11013.8	10599.9	10133.2	9757.6	9273.3	8752.3	7719.8	7547.2	5287.1
32.5°	12236.6	12252.5	11977.6	11549.2	11098.6	10665.4	10153.9	9477.9	8471.0	8226.4	5776.3
35°	13027.7	13043.7	12759.2	12402.8	11939.3	11579.6	11092.1	10251.4	9212.5	9006.4	6338.9
37.5°	13449.7	13470.4	13305.8	13037.3	12748.0	12567.4	12113.5	11247.2	10114.0	9989.4	7003.7
40°	13529.5	13553.6	13481.6	13409.7	13393.7	13523.2	13390.6	12420.3	11363.9	11168.9	7994.7
42.5°	13289.9	13321.8	13353.8	13513.6	13839.6	14314.3	14776.2	14012.3	12973.4	12711.2	9206.2
45°	12660.1	12656.9	12783.2	13197.2	13927.5	14940.9	16224.3	16005.3	15166.2	14854.5	10917.9
47.5°	11582.8	11566.9	11840.1	12430.0	13567.9	15055.9	17405.5	18425.2	17964.8	17677.2	12757.6
50°	9941.4	10019.7	10449.7	11272.8	12674.5	14707.5	17769.9	20012.2	20261.6	19956.3	14244.0
52.5°	8018.6	8015.4	8689.9	9807.2	11351.1	13940.3	17515.7	20300.0	21008.0	20774.6	14976.0
55°	5934.4	5976.0	6677.7	7804.5	9632.9	12540.2	16686.2	20004.2	21292.5	21127.8	15458.7
57°	4414.5	4488.0	5050.6	6242.9	8136.9	11154.5	15581.8	19475.2	21404.4	21314.8	15859.9
57.5°	4120.4	4123.6	4671.8	5755.4	7699.0	10622.3	15265.3	19254.7	21401.2	21351.6	15925.4
60°	2536.5	2616.4	2995.2	3890.3	5635.6	8290.3	13144.4	17987.2	21235.0	21306.8	16205.1
62.5°	1518.4	1551.9	1798.1	2344.7	3632.9	6051.2	10756.5	16364.9	20801.8	21020.8	16185.9
65°	976.6	984.5	1096.4	1419.3	2271.2	4090.0	8288.8	14221.6	19681.4	20084.2	15553.0
67.5°	754.4	767.2	812.0	931.8	1317.0	2547.6	5862.6	11934.5	17868.9	18388.4	14018.7
70°	669.7	676.0	692.1	730.4	871.1	1438.4	3647.3	9322.9	14817.8	14964.9	10970.7
72.5°	546.6	564.2	613.7	626.6	690.4	898.3	2029.8	6257.3	9955.8	9992.6	6137.5
75°	423.5	426.7	500.3	537.1	581.8	618.6	906.2	3155.0	4782.1	4526.4	2365.4
77.5°	316.5	330.8	364.4	410.8	474.7	442.7	406.0	1189.1	1484.8	1457.6	687.2
80°	203.0	210.9	254.2	308.5	369.2	289.3	228.6	348.4	326.0	335.7	164.6
82.5°	102.3	103.9	163.0	251.0	235.0	145.5	143.8	142.3	121.4	119.9	76.7
85°	11.2	24.0	105.5	143.8	105.5	47.9	67.1	65.5	63.9	65.5	44.8
87.5°	1.6	1.6	17.6	20.7	14.4	16.0	19.2	20.7	25.6	24.0	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648118

CATALOG NUMBER: GALN-SA8A-835-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7	1938.7
2.5°	1996.3	1932.4	1814.1	1700.6	1615.9	1561.5	1491.2	1465.6	1428.9	1424.0	1406.5
5°	2082.5	1961.1	1754.9	1591.9	1460.8	1361.7	1275.4	1203.5	1146.0	1133.2	1139.6
7.5°	2205.6	2025.1	1737.3	1515.2	1333.0	1163.5	1026.1	941.4	880.6	858.2	861.5
10°	2344.7	2109.7	1734.2	1433.7	1155.6	947.8	797.6	722.4	687.2	674.5	660.1
12.5°	2509.4	2207.3	1726.1	1307.4	960.6	756.0	648.9	604.2	570.6	561.0	561.0
15°	2694.7	2311.1	1687.8	1150.8	779.9	624.9	553.0	517.9	506.7	497.0	497.0
17.5°	2888.1	2413.4	1607.9	957.4	647.3	535.4	490.7	469.9	453.9	442.7	442.7
20°	3108.7	2514.1	1480.0	786.4	546.6	477.9	442.7	418.7	406.0	396.4	393.1
22.5°	3318.0	2595.6	1317.0	645.7	476.3	429.9	398.0	372.4	359.6	354.9	354.9
25°	3535.4	2645.2	1120.4	533.8	434.7	390.0	354.9	334.0	322.8	319.6	318.1
27.5°	3746.4	2673.9	947.8	466.7	396.4	353.2	319.6	303.6	292.5	289.3	290.9
30°	4002.1	2678.7	779.9	418.7	362.8	318.1	287.7	273.3	266.9	263.7	262.1
32.5°	4261.1	2672.4	655.3	390.0	330.8	287.7	262.1	251.0	246.2	241.3	241.3
35°	4552.0	2638.8	557.8	361.2	300.5	262.1	239.8	230.1	223.8	219.0	217.4
37.5°	4913.2	2621.2	501.9	329.3	273.3	238.1	217.4	207.8	203.0	196.6	195.0
40°	5482.2	2699.5	484.3	300.5	246.2	215.8	196.6	185.4	179.0	172.7	171.0
42.5°	6191.8	2837.0	455.5	271.7	222.1	195.0	175.8	163.0	151.8	143.8	140.6
45°	7110.8	3017.6	410.8	241.3	201.4	172.7	155.0	139.1	124.7	118.3	116.7
47.5°	8074.6	3191.8	370.8	217.4	179.0	153.5	134.3	116.7	103.9	99.1	97.5
50°	8665.9	3227.0	345.2	190.2	156.6	132.6	113.5	97.5	89.5	84.7	84.7
52.5°	8936.1	3171.0	310.1	166.2	135.9	116.7	97.5	84.7	79.9	76.7	75.1
55°	9124.7	3084.7	263.7	143.8	116.7	99.1	86.3	76.7	70.3	67.1	65.5
57°	9234.9	2968.0	228.6	126.3	100.7	86.3	76.7	68.7	62.3	55.9	55.9
57.5°	9239.7	2923.3	219.0	124.7	95.9	83.1	75.1	67.1	59.1	52.8	51.1
60°	9097.5	2616.4	175.8	105.5	76.7	70.3	62.3	52.8	41.6	35.2	33.6
62.5°	8640.4	2226.5	145.5	89.5	62.3	54.3	44.8	39.9	28.7	20.7	20.7
65°	7948.3	1806.1	124.7	72.0	51.1	39.9	30.4	28.7	17.6	9.6	8.0
67.5°	6947.8	1406.5	105.5	59.1	43.1	28.7	20.7	19.2	9.6	3.2	0.0
70°	5293.5	958.9	87.9	47.9	31.9	20.7	14.4	11.2	6.4	1.6	0.0
72.5°	3051.1	527.4	73.5	36.7	24.0	16.0	11.2	6.4	6.4	0.0	0.0
75°	1090.0	227.0	55.9	27.2	19.2	12.8	8.0	3.2	4.8	1.6	0.0
77.5°	346.9	121.4	36.7	20.7	16.0	9.6	6.4	3.2	3.2	1.6	0.0
80°	102.3	63.9	22.4	17.6	11.2	8.0	4.8	1.6	3.2	1.6	0.0
82.5°	55.9	31.9	17.6	12.8	11.2	6.4	4.8	1.6	1.6	1.6	0.0
85°	28.7	19.2	14.4	12.8	11.2	6.4	4.8	1.6	0.0	1.6	1.6
87.5°	16.0	14.4	14.4	12.8	11.2	8.0	4.8	1.6	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)