

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: P647317

Luminaire Tested: **GALN-SA3D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13489.5 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

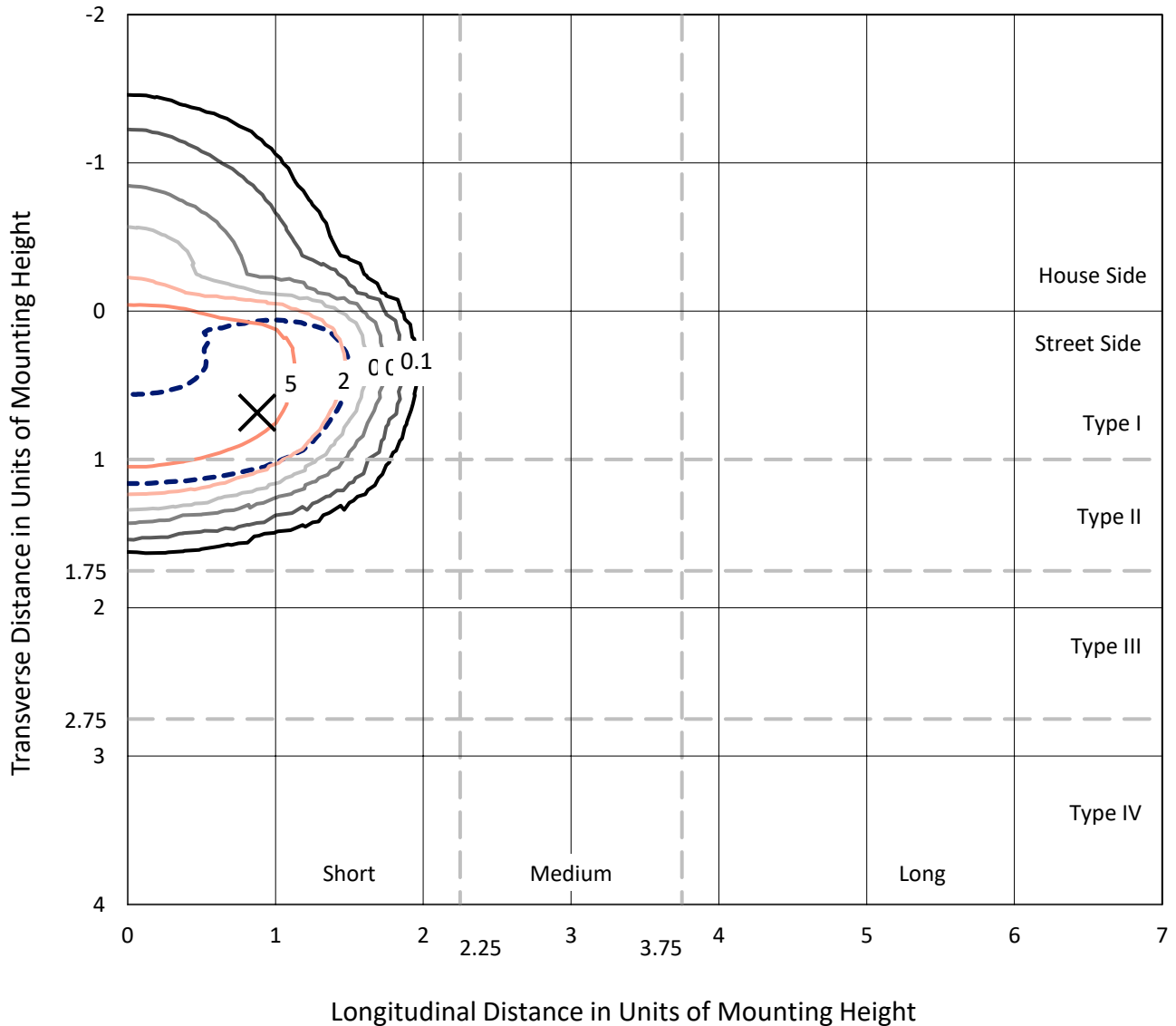
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

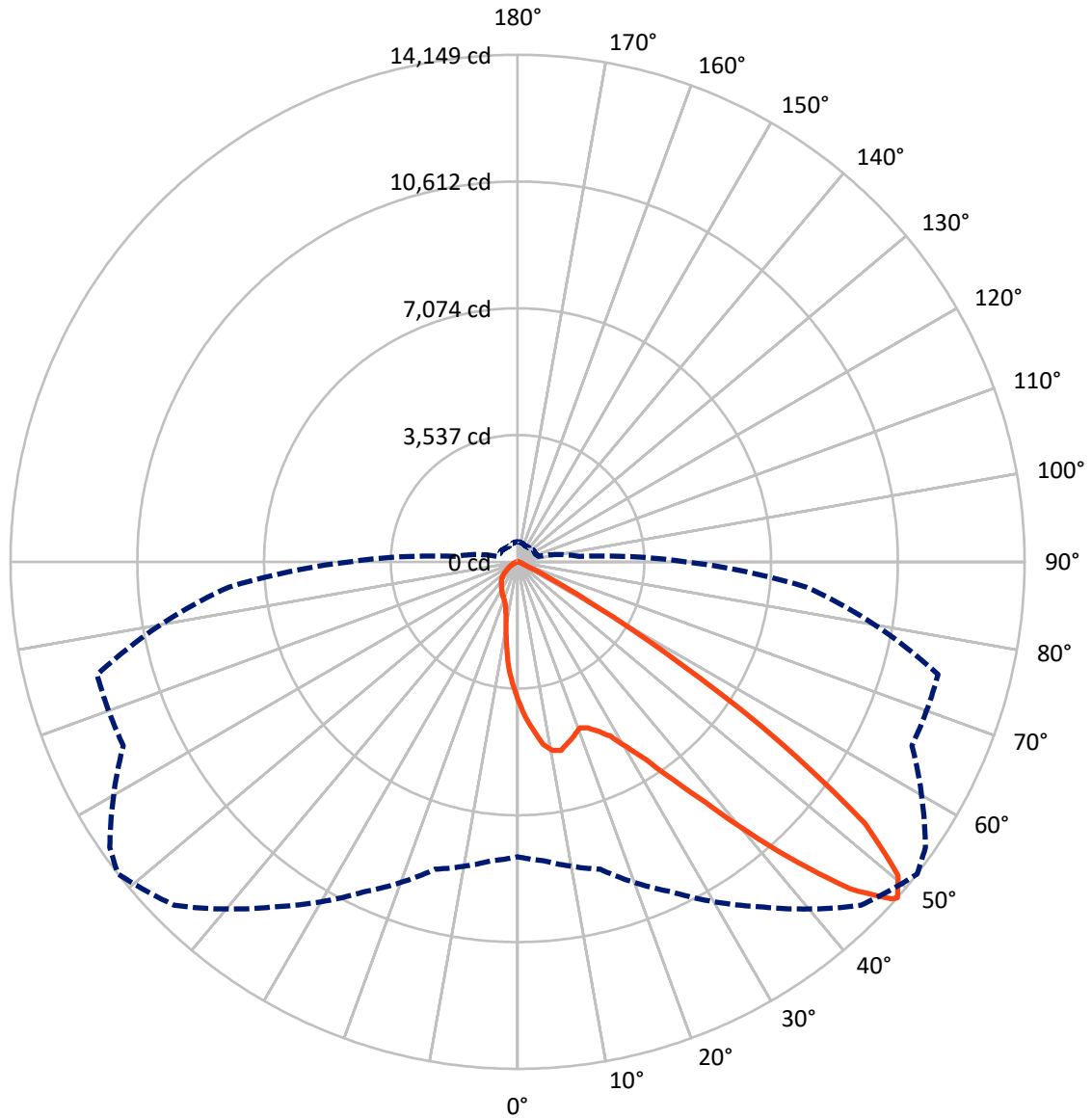
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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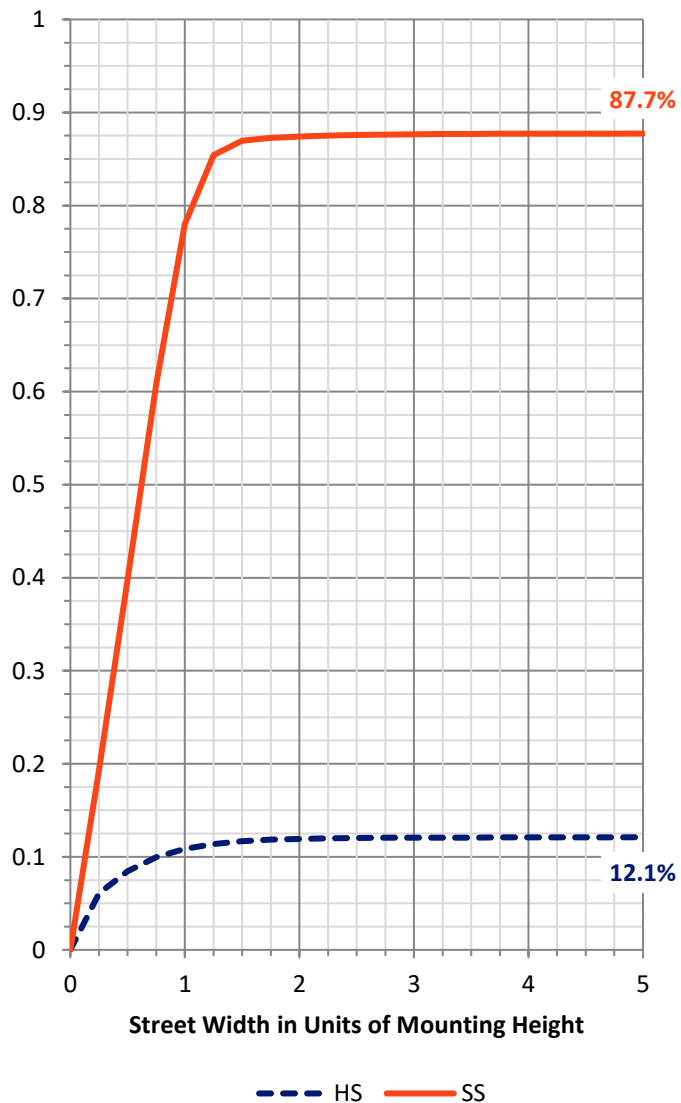
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.5	0.0	1642.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11847.1	0.0	11847.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	13489.5	0.0	13489.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.6	2.6
10°-20°	931.8	6.9
20°-30°	1591.0	11.8
30°-40°	2929.8	21.7
40°-50°	4549.9	33.7
50°-60°	2738.3	20.3
60°-70°	316.7	2.3
70°-80°	61.3	0.5
80°-90°	14.2	0.1
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°	13489.5	100.0
0°-180°	13489.5	100.0

Coefficient of Utilization



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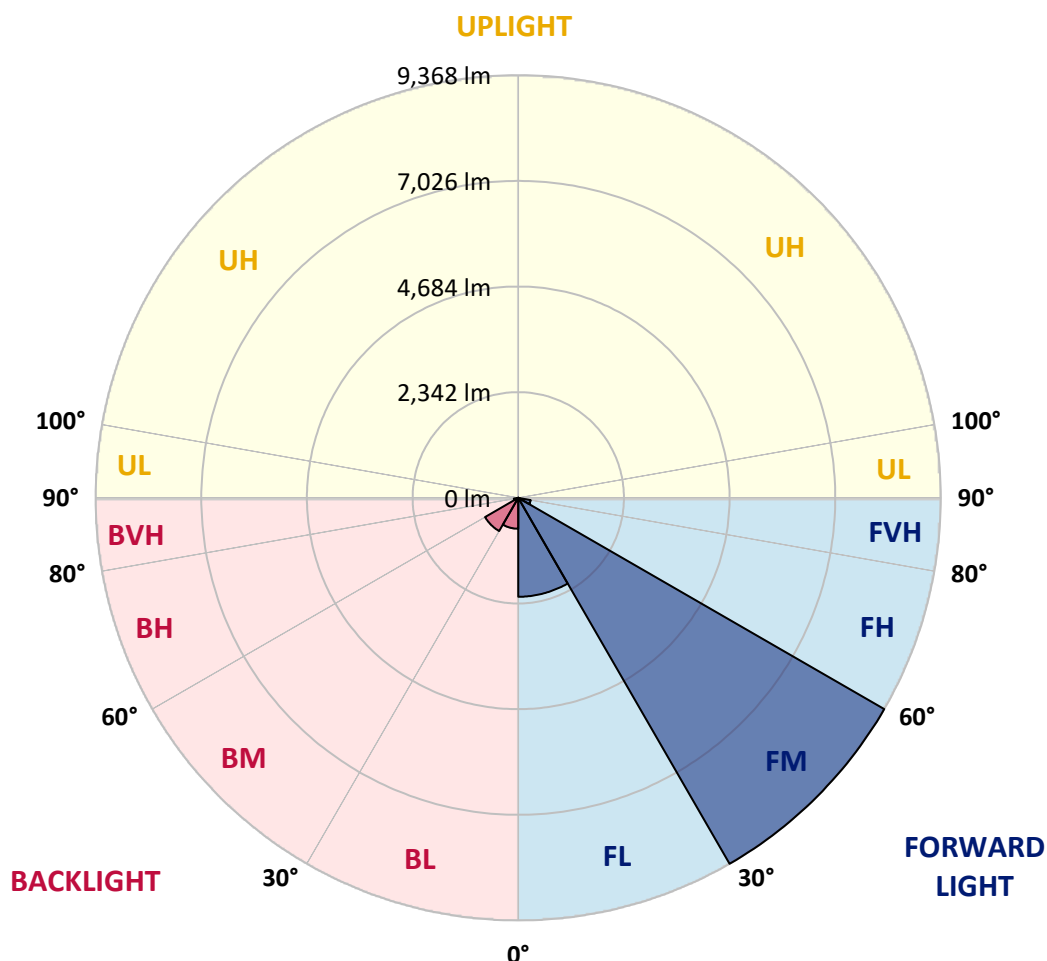
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.2	16.3			
FM (30°-60°)	9368.2	69.4			
FH (60°-80°)	278.9	2.1			G0/660
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	686.1	5.1	B2/1000		
BM (30°-60°)	849.8	6.3	B1/1000		
BH (60°-80°)	99.1	0.7	B0/110		G0/110
BVH (80°-90°)	7.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6
2.5°	4721.5	4613.3	4623.1	4552.4	4511.0	4444.2	4353.7	4336.0	4237.8	4104.0	3968.3
5°	5146.2	5120.7	5154.1	5051.8	5055.8	4945.7	4733.2	4737.2	4511.0	4292.8	4082.3
7.5°	5173.8	5114.8	5148.1	5238.7	5291.7	5272.1	5152.1	5047.9	4833.5	4513.1	4206.3
10°	4632.9	4745.1	4780.4	4929.9	5142.3	5366.4	5352.7	5358.6	5179.6	4760.8	4312.5
12.5°	4308.5	4233.8	4353.7	4444.2	4764.7	5199.3	5397.9	5441.2	5454.9	5000.7	4418.6
15°	4161.0	4161.0	4180.7	4206.3	4438.3	4839.5	5244.5	5370.4	5667.4	5315.3	4585.8
17.5°	4253.4	4249.5	4277.1	4224.0	4310.5	4619.2	5103.0	5246.5	5905.3	5624.1	4717.5
20°	4534.7	4548.4	4530.8	4377.4	4383.2	4615.2	4945.7	5171.8	6066.5	5891.5	4892.6
22.5°	4926.0	4933.8	4833.5	4666.4	4617.3	4731.3	5036.1	5209.1	6196.3	6212.0	4945.7
25°	5378.3	5346.8	5327.1	5091.1	4941.7	5040.0	5240.6	5340.9	6276.9	6487.3	5097.0
27.5°	6005.5	5942.7	5822.7	5612.2	5502.1	5362.5	5506.1	5671.3	6507.0	6872.8	5262.2
30°	6931.7	6876.7	6642.7	6371.3	6082.3	5944.6	5989.8	6080.3	6922.0	7319.2	5480.5
32.5°	8326.0	8210.0	7871.7	7354.6	6961.3	6581.7	6569.9	6666.3	7293.6	7936.6	5740.1
35°	9861.8	9826.4	9328.9	8796.0	8034.9	7448.9	7458.8	7509.9	8005.5	8746.8	6080.3
37.5°	10882.4	11077.0	10760.5	10188.2	9549.1	8711.4	8499.0	8516.7	8982.8	9706.5	6693.8
40°	11670.9	11505.7	11543.1	11409.4	10972.8	10402.5	9932.6	9840.1	10113.5	10768.3	7303.4
42.5°	11326.8	11334.6	11564.8	11881.3	11989.5	11948.2	11468.4	11293.4	11081.0	11637.5	7883.6
45°	10355.3	10557.9	10856.8	11694.5	12430.0	13120.2	13025.8	12734.8	11749.5	12325.8	8217.8
47.5°	8805.8	8797.9	9287.6	10377.0	12011.1	13627.6	14056.3	13851.7	12223.5	12249.1	8149.0
48°	8233.6	8375.1	8880.6	10162.6	11745.6	13552.8	14148.7	13891.0	12142.8	12146.8	8090.0
50°	6086.2	6060.7	6689.9	8263.1	10491.0	12734.8	13759.3	13959.9	12140.9	11629.6	7677.1
52.5°	3215.2	3325.2	3783.5	5195.4	7417.4	10422.2	12137.0	12449.6	11712.2	10784.0	7083.2
55°	1366.6	1234.9	1586.9	2345.9	4172.8	6963.2	8904.1	9600.2	9903.1	9543.2	6196.3
57.5°	487.7	532.9	613.6	882.9	1754.1	3811.0	5309.4	5850.2	6861.0	7002.5	4222.0
60°	312.7	318.6	344.1	405.1	658.7	1468.9	2519.1	2949.7	3407.9	3518.0	1970.4
62.5°	241.9	243.8	255.6	265.4	312.7	570.3	945.9	1120.9	1164.2	1000.9	517.2
65°	202.6	204.5	208.4	208.4	222.2	267.5	330.3	363.8	354.0	350.0	293.0
67.5°	155.3	159.3	167.2	167.2	175.0	163.2	182.9	194.7	220.3	267.5	249.8
70°	121.9	123.9	129.8	133.7	133.7	118.0	131.8	143.5	161.2	198.6	196.6
72.5°	94.4	98.3	102.3	102.3	96.4	80.6	94.4	104.2	116.0	137.7	133.7
75°	72.7	72.7	74.7	61.0	47.2	41.3	57.0	68.8	86.5	90.4	74.7
77.5°	19.7	21.6	19.7	17.7	19.7	29.5	37.3	43.3	55.0	55.0	49.2
80°	0.0	2.0	5.9	11.8	19.7	27.6	33.4	37.3	43.3	47.2	45.3
82.5°	0.0	2.0	5.9	11.8	17.7	21.6	29.5	31.5	35.4	41.3	41.3
85°	0.0	2.0	3.9	7.8	11.8	13.8	13.8	11.8	11.8	9.9	7.8
87.5°	0.0	0.0	2.0	3.9	3.9	5.9	5.9	5.9	5.9	5.9	5.9
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°	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6	3895.6
2.5°	3915.2	3854.2	3761.8	3616.3	3476.7	3386.2	3299.7	3203.3	3150.2	3146.3	3116.8
5°	3962.4	3824.7	3604.5	3354.8	3087.4	2857.2	2625.2	2473.8	2338.1	2263.4	2249.6
7.5°	3988.0	3809.1	3453.1	3034.3	2578.0	2202.4	1942.9	1752.1	1677.4	1622.3	1620.3
10°	4041.1	3781.5	3227.0	2609.5	2045.1	1665.6	1486.6	1400.1	1358.8	1343.1	1319.5
12.5°	4080.4	3730.4	2994.9	2172.9	1616.4	1380.4	1301.8	1282.2	1284.1	1292.0	1282.2
15°	4135.5	3685.1	2682.2	1783.6	1356.9	1242.8	1242.8	1246.8	1274.3	1278.2	1276.2
17.5°	4131.5	3596.6	2359.7	1468.9	1199.6	1183.8	1189.7	1227.0	1244.7	1250.7	1236.9
20°	4178.7	3514.0	2027.4	1254.6	1111.1	1134.6	1174.0	1183.8	1205.4	1209.3	1193.6
22.5°	4164.9	3307.5	1718.7	1085.5	1044.2	1089.4	1128.8	1140.5	1134.6	1122.8	1120.9
25°	4139.4	3130.6	1435.6	973.4	995.0	1044.2	1081.6	1059.9	1048.1	1050.1	1052.0
27.5°	4094.2	2906.4	1201.5	894.7	928.2	1000.9	999.0	991.1	1002.9	993.1	1002.9
30°	4086.3	2682.2	1008.8	824.0	879.0	932.1	936.0	949.8	963.6	945.9	963.6
32.5°	4098.1	2436.5	871.2	780.7	849.5	851.5	894.7	908.5	898.6	859.3	863.3
35°	4188.6	2247.7	770.9	757.1	802.3	804.3	845.6	827.9	784.6	761.0	774.8
37.5°	4379.3	2090.4	723.6	735.5	739.4	764.9	766.9	731.6	735.5	733.5	741.3
40°	4623.1	1970.4	690.2	715.8	711.8	729.5	658.7	678.4	696.1	702.0	706.0
42.5°	4790.3	1883.9	668.6	684.3	676.4	645.0	605.7	625.3	639.1	660.7	664.7
45°	4865.0	1815.1	643.0	629.3	629.3	572.2	556.5	560.5	591.9	615.5	611.6
47.5°	4743.1	1748.2	597.8	556.5	570.3	523.0	505.3	505.3	538.8	568.3	562.4
48°	4695.9	1720.6	599.8	540.7	550.6	515.2	497.5	493.6	531.0	558.4	558.4
50°	4461.9	1618.4	548.6	497.5	477.9	473.9	462.1	466.0	489.6	515.2	515.2
52.5°	4005.7	1398.1	464.1	426.7	391.3	414.9	420.8	413.0	424.8	448.3	446.4
55°	3342.9	1073.6	371.7	354.0	326.4	352.0	363.8	354.0	342.2	359.9	359.9
57.5°	2141.5	578.2	296.9	300.9	273.3	298.9	308.7	285.2	263.5	277.3	275.3
60°	965.5	346.1	243.8	238.0	220.3	249.8	265.4	238.0	208.4	218.3	228.1
62.5°	361.8	245.8	184.9	181.0	177.0	204.5	212.3	190.7	161.2	167.2	169.1
65°	265.4	216.3	147.5	133.7	141.6	161.2	157.3	135.7	116.0	116.0	120.0
67.5°	226.1	188.8	120.0	104.2	104.2	106.2	98.3	86.5	80.6	84.6	88.5
70°	177.0	149.5	94.4	80.6	72.7	64.9	57.0	55.0	49.2	55.0	53.1
72.5°	114.1	100.3	72.7	61.0	55.0	45.3	37.3	35.4	29.5	27.6	27.6
75°	61.0	61.0	57.0	49.2	43.3	35.4	29.5	23.6	15.7	11.8	11.8
77.5°	43.3	47.2	51.1	47.2	39.3	29.5	23.6	15.7	7.8	3.9	3.9
80°	41.3	47.2	51.1	45.3	39.3	29.5	21.6	11.8	5.9	2.0	2.0
82.5°	37.3	43.3	47.2	41.3	35.4	25.5	19.7	11.8	5.9	2.0	2.0
85°	7.8	9.9	11.8	11.8	13.8	17.7	13.8	9.9	3.9	2.0	2.0
87.5°	5.9	5.9	5.9	5.9	5.9	5.9	3.9	3.9	2.0	2.0	2.0
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)