

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: P648253

Luminaire Tested: **GALN-SA2B-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8085.3 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

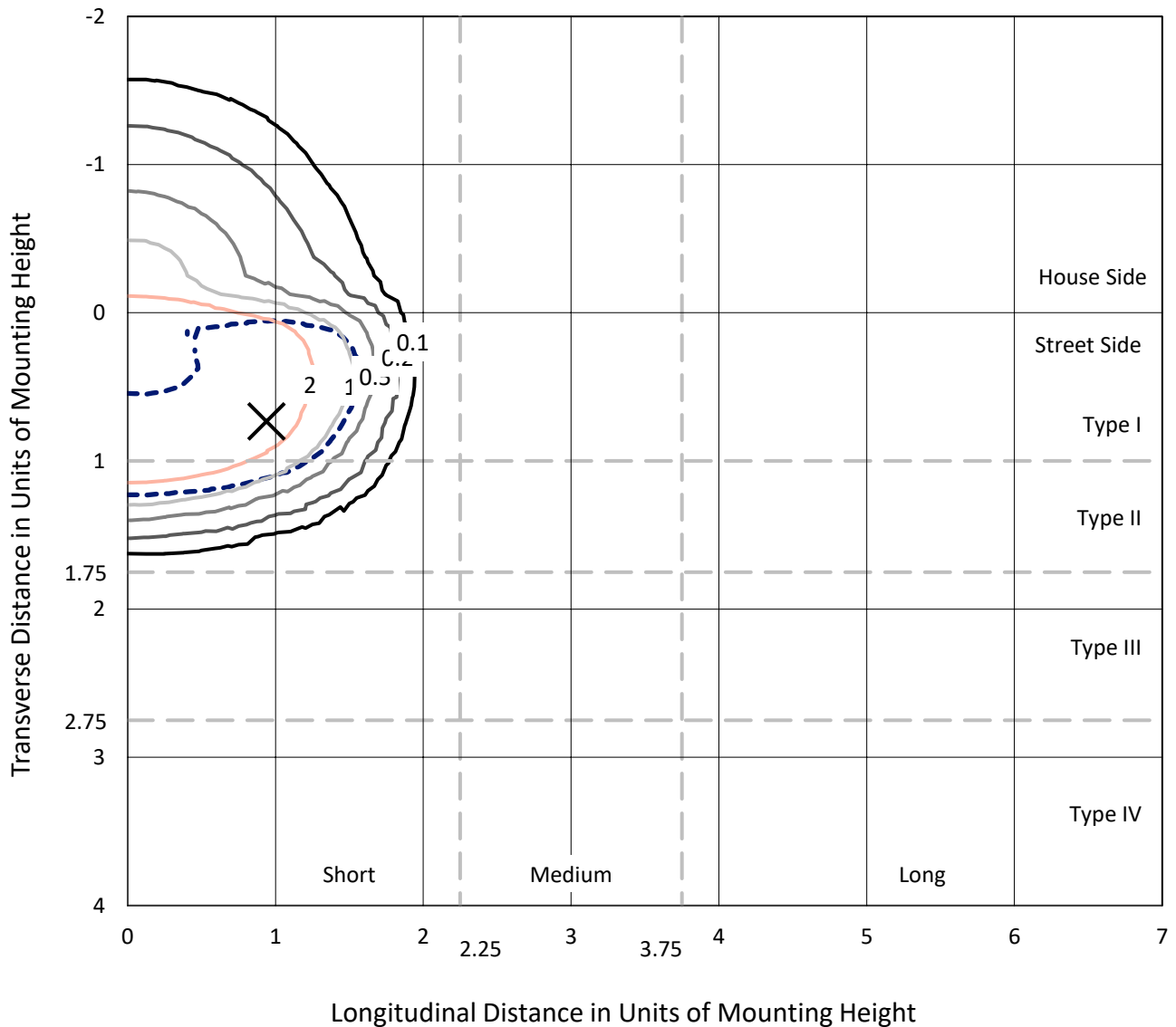
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

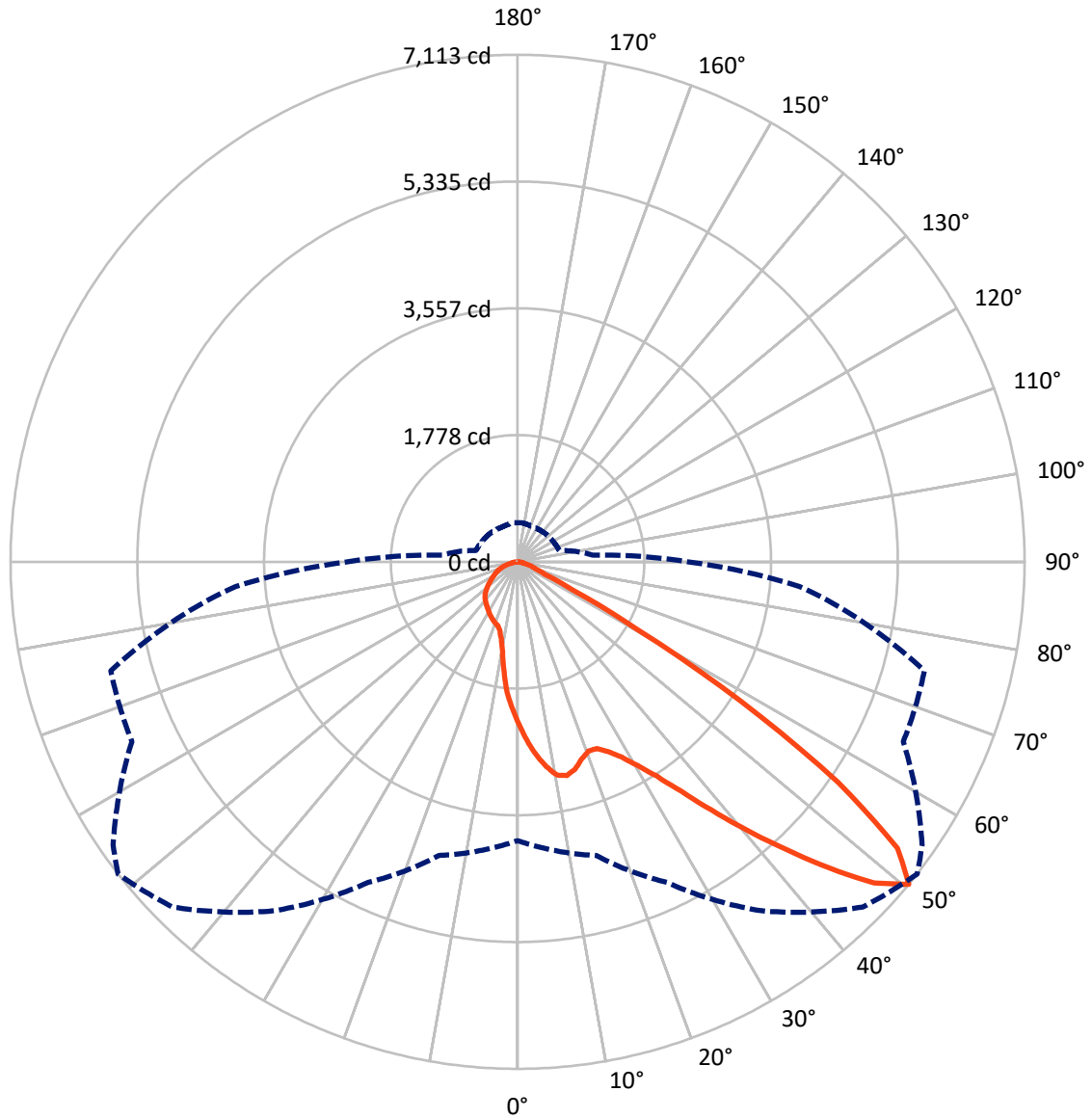
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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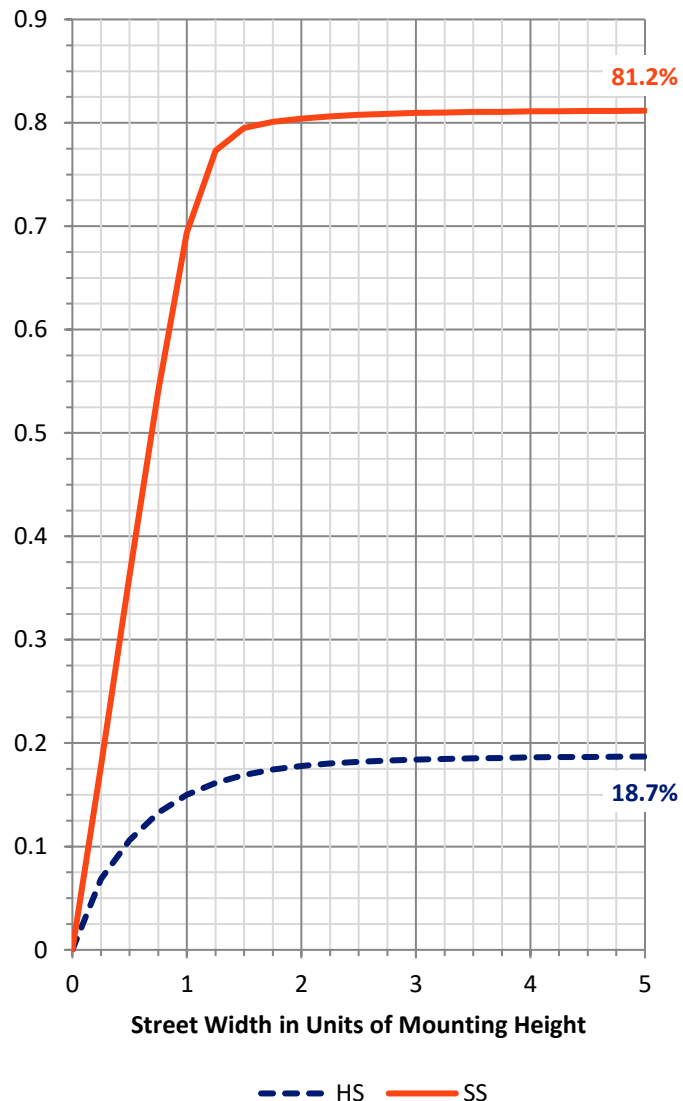
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1519.8	0.0	1519.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6565.4	0.0	6565.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	8085.3	0.0	8085.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.1	2.6
10°-20°	563.0	7.0
20°-30°	948.4	11.7
30°-40°	1591.5	19.7
40°-50°	2434.6	30.1
50°-60°	1775.0	22.0
60°-70°	395.0	4.9
70°-80°	142.5	1.8
80°-90°	25.2	0.3
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°	8085.3	100.0
0°-180°	8085.3	100.0

Coefficient of Utilization

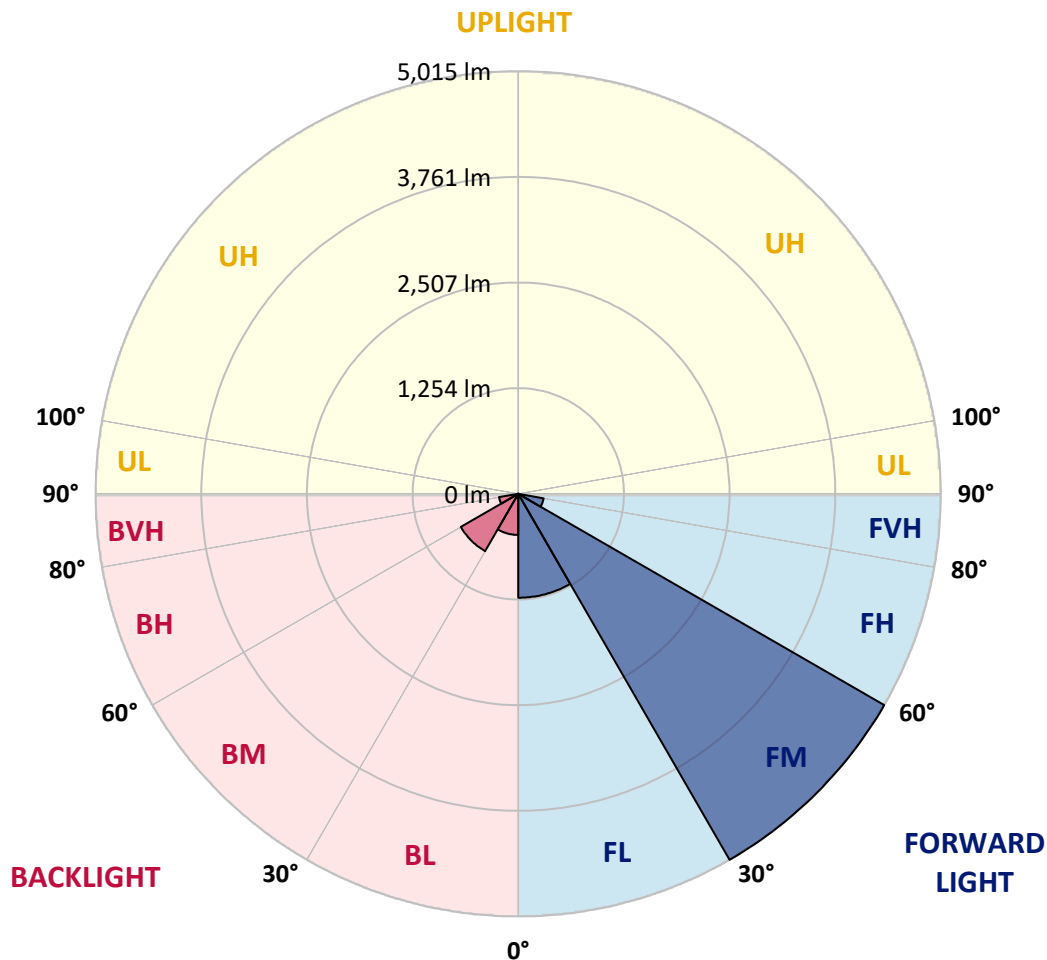


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.3	15.3			
FM (30°-60°)	5014.9	62.0			
FH (60°-80°)	306.0	3.8			G0/660
FVH (80°-90°)	11.3	0.1			G1/100
BL (0°-30°)	488.2	6.0	B1/500		
BM (30°-60°)	786.2	9.7	B1/1000		
BH (60°-80°)	231.5	2.9	B1/500		G1/500
BVH (80°-90°)	13.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1
2.5°	2683.5	2631.8	2637.7	2600.7	2560.7	2549.0	2508.1	2469.1	2439.9	2377.5	2320.0
5°	2932.9	2917.3	2894.0	2864.7	2834.5	2760.5	2718.6	2669.8	2562.7	2466.2	2370.7
7.5°	2969.0	2966.1	2978.7	2978.7	2989.4	2961.1	2901.7	2867.7	2753.7	2596.7	2419.4
10°	2715.6	2724.4	2785.8	2865.7	2976.7	3053.8	3044.0	3035.2	2910.5	2696.1	2476.9
12.5°	2513.9	2494.4	2530.5	2598.7	2765.3	2951.4	3077.1	3078.1	3045.9	2855.0	2518.8
15°	2399.9	2413.6	2423.3	2455.5	2581.2	2796.5	3017.7	3083.0	3224.2	2967.0	2585.1
17.5°	2473.0	2427.2	2425.3	2433.0	2497.4	2659.1	2907.6	3019.6	3321.7	3111.3	2666.9
20°	2568.5	2567.5	2540.2	2530.5	2529.5	2673.7	2835.5	2987.5	3373.3	3298.3	2749.7
22.5°	2736.1	2736.1	2691.2	2669.8	2624.1	2741.9	2845.2	2948.5	3459.1	3427.0	2789.7
25°	3016.7	2970.9	2894.0	2841.4	2815.0	2856.9	2948.5	3041.1	3534.1	3563.4	2872.5
27.5°	3275.9	3203.8	3165.8	3075.2	3040.1	3015.7	3099.5	3193.1	3621.8	3775.8	2917.3
30°	3570.2	3557.5	3489.3	3372.4	3285.6	3240.8	3317.8	3410.4	3782.6	3993.1	3020.6
32.5°	4096.3	3981.4	3888.8	3745.6	3604.3	3508.8	3584.8	3646.2	4049.6	4220.1	3133.6
35°	4664.4	4627.4	4467.6	4209.3	3993.1	3907.3	3952.1	3997.9	4360.4	4567.0	3323.7
37.5°	5222.8	5172.0	5040.6	4823.2	4560.1	4385.7	4417.9	4471.5	4709.2	5034.7	3555.5
40°	5624.2	5561.8	5495.6	5463.4	5202.3	4963.5	4945.0	4958.7	5180.8	5473.2	3812.8
42.5°	5653.4	5730.4	5750.8	5880.5	5819.1	5623.2	5509.2	5512.2	5631.0	5906.8	4072.9
45°	5592.0	5520.9	5671.9	6025.7	6228.3	6319.9	6127.9	6103.6	5909.7	6158.1	4202.5
47.5°	4947.9	4967.4	5222.8	5782.1	6367.7	6776.9	6732.1	6651.2	6058.8	6149.4	4182.1
50°	3911.2	4029.1	4265.9	4962.6	5977.9	6849.0	7113.1	6925.9	5970.1	5907.7	3973.6
52.5°	2604.6	2653.3	2809.2	3708.5	4806.7	6122.1	6674.6	6717.4	5888.2	5591.1	3709.5
55°	1159.5	1155.6	1374.9	1937.1	3015.7	4658.5	5453.7	5714.8	5573.6	5268.5	3452.2
57.5°	491.1	507.6	597.3	837.0	1483.0	2811.1	3694.9	3923.8	4286.4	4326.3	2648.4
60°	332.3	334.2	358.6	419.0	620.7	1320.3	1938.1	2212.8	2472.0	2454.5	1405.1
62.5°	261.1	267.9	286.5	310.9	368.3	599.2	867.2	1020.2	1036.8	872.1	533.0
65°	223.2	224.1	242.7	263.1	288.5	348.8	418.0	425.8	430.6	415.1	391.7
67.5°	184.2	186.1	200.8	224.1	247.5	267.0	286.5	296.2	318.6	362.5	356.7
70°	146.2	149.1	161.8	181.3	202.6	214.4	238.7	247.5	267.9	302.1	315.7
72.5°	111.1	112.0	122.8	136.4	155.9	167.6	188.1	197.8	211.4	240.7	253.4
75°	79.9	82.8	90.6	97.4	100.4	108.1	127.6	138.4	157.9	170.5	171.5
77.5°	41.9	43.8	45.8	45.8	55.5	70.2	82.8	88.6	102.3	112.0	107.2
80°	16.6	17.5	22.4	30.2	39.0	50.7	59.4	62.3	74.1	79.9	82.8
82.5°	9.7	10.7	14.6	21.5	28.3	36.0	42.9	45.8	53.6	60.4	62.3
85°	4.9	5.9	8.8	13.6	18.5	22.4	21.5	20.4	20.4	19.5	20.4
87.5°	2.0	2.0	2.9	2.9	2.9	3.9	4.9	4.9	4.9	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°	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1	2279.1
2.5°	2282.1	2243.1	2207.0	2140.7	2068.6	2048.2	1964.4	1934.2	1912.7	1887.4	1879.6
5°	2293.7	2242.0	2126.2	1992.7	1886.4	1750.0	1660.4	1563.9	1493.7	1476.2	1471.3
7.5°	2318.1	2229.4	2029.7	1828.0	1610.6	1425.5	1284.3	1208.2	1141.0	1137.2	1130.3
10°	2345.3	2191.4	1924.5	1607.7	1330.1	1158.5	1073.8	1040.7	1024.1	1020.2	1018.2
12.5°	2367.8	2183.6	1806.5	1393.3	1131.3	1028.0	1002.6	999.7	1006.5	1008.5	1012.4
15°	2377.5	2152.5	1664.3	1201.4	1007.5	969.5	980.2	991.9	996.8	1009.4	999.7
17.5°	2396.1	2112.5	1488.9	1049.5	938.3	945.2	963.6	977.3	985.1	993.9	981.2
20°	2405.8	2076.4	1324.2	958.8	914.0	926.7	952.0	962.7	972.4	976.3	961.8
22.5°	2397.0	2002.4	1179.0	885.7	890.6	907.2	929.6	941.2	935.5	919.8	911.0
25°	2373.6	1898.1	1028.0	839.0	857.5	886.7	904.2	895.4	884.7	875.9	873.0
27.5°	2372.6	1770.4	918.9	796.1	829.2	869.1	863.3	855.5	860.4	853.5	845.8
30°	2377.5	1646.7	829.2	771.7	808.8	828.3	835.1	827.2	833.1	820.4	824.3
32.5°	2352.2	1525.9	770.7	743.5	784.4	783.4	805.8	811.7	798.0	771.7	775.6
35°	2362.9	1428.4	721.1	730.8	757.1	757.1	774.6	767.8	731.8	716.2	720.0
37.5°	2436.9	1333.0	696.7	713.2	730.8	738.6	732.7	703.5	694.8	694.8	696.7
40°	2507.1	1251.2	682.1	709.3	706.4	711.3	668.4	671.3	671.3	672.4	667.4
42.5°	2569.5	1195.6	670.4	686.0	690.8	665.5	639.2	636.3	643.1	642.1	638.2
45°	2591.9	1149.8	653.8	659.7	663.6	621.6	609.0	603.1	611.0	613.9	617.8
47.5°	2506.1	1111.8	635.3	623.6	615.8	588.5	572.0	561.3	571.0	587.6	591.5
50°	2396.1	1062.1	606.0	583.6	567.1	555.4	543.7	533.0	539.8	551.5	548.6
52.5°	2233.3	984.2	569.0	545.7	517.4	520.3	509.6	503.8	507.6	507.6	504.7
55°	2001.4	808.8	506.7	490.1	466.7	474.5	476.5	468.7	460.9	467.7	461.9
57.5°	1366.1	571.0	452.1	452.1	428.8	439.4	438.5	420.0	401.4	403.4	399.5
60°	790.2	455.1	417.0	413.1	388.8	397.5	399.5	386.8	358.6	360.5	356.7
62.5°	449.2	388.8	364.4	358.6	353.7	361.5	361.5	344.9	320.6	322.5	318.6
65°	381.9	360.5	325.4	324.5	322.5	324.5	316.6	299.1	277.7	269.0	269.9
67.5°	346.9	333.2	299.1	290.3	284.5	283.5	269.0	252.4	242.7	234.8	233.9
70°	304.0	293.3	267.9	256.3	250.4	236.8	222.1	211.4	197.8	193.9	197.8
72.5°	240.7	239.7	230.0	217.3	204.6	193.9	181.3	166.6	153.9	151.0	144.2
75°	166.6	168.6	170.5	168.6	157.9	144.2	129.6	117.9	102.3	93.6	91.6
77.5°	109.2	112.0	114.9	111.1	104.3	91.6	81.8	67.3	55.5	48.7	47.8
80°	79.9	83.8	85.7	82.8	75.0	65.3	54.6	42.9	34.1	28.3	28.3
82.5°	61.4	65.3	67.3	62.3	54.6	46.7	39.0	30.2	23.4	18.5	17.5
85°	21.5	20.4	24.4	25.4	30.2	28.3	23.4	17.5	13.6	9.7	8.8
87.5°	5.9	5.9	6.8	6.8	5.9	4.9	4.9	4.9	3.9	2.9	2.9
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)