

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: P527240

Luminaire Tested: **GALN-SA2B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527240
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-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 9403 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

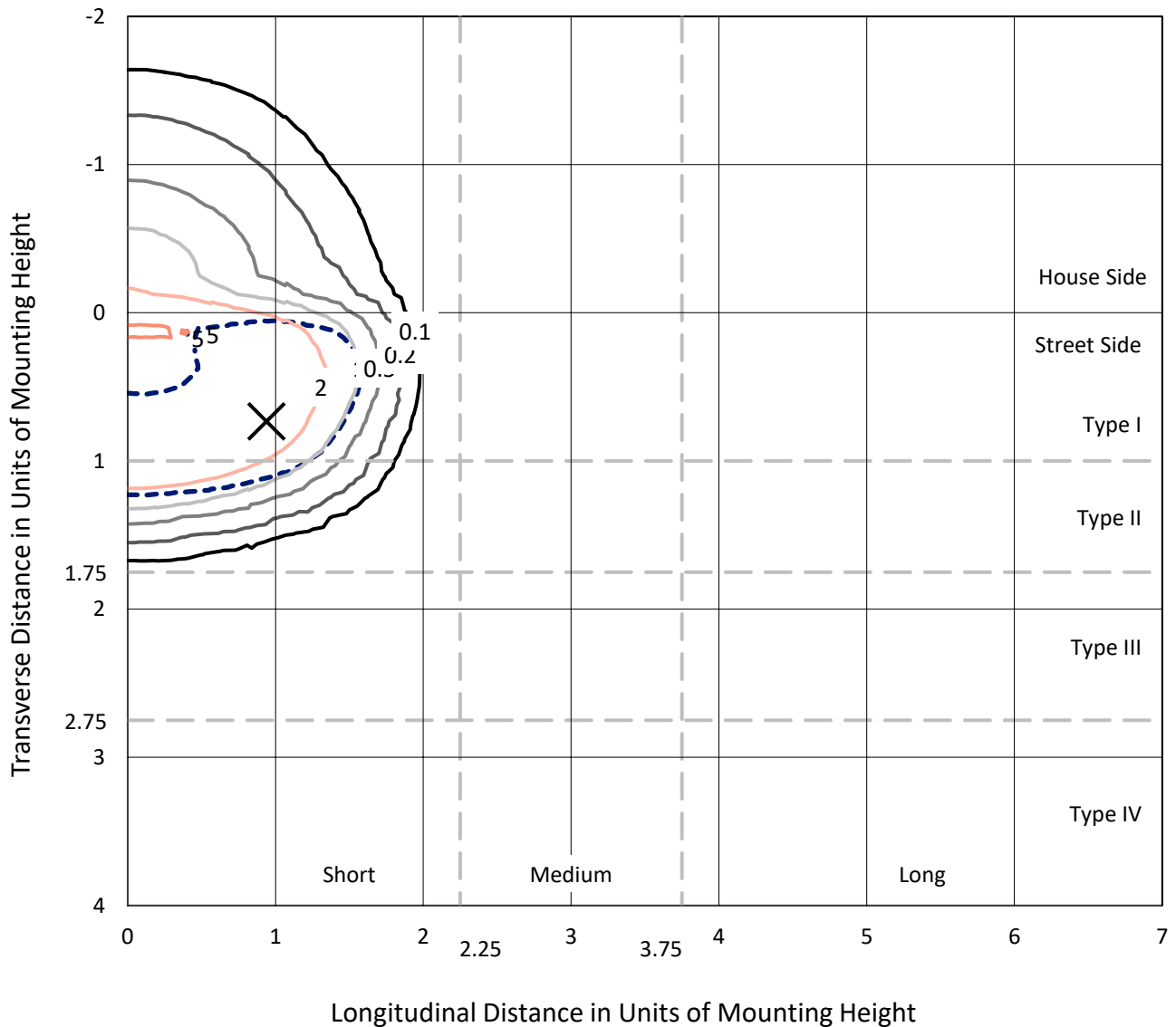
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527240
 CATALOG NUMBER: GALN-SA2B-730-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

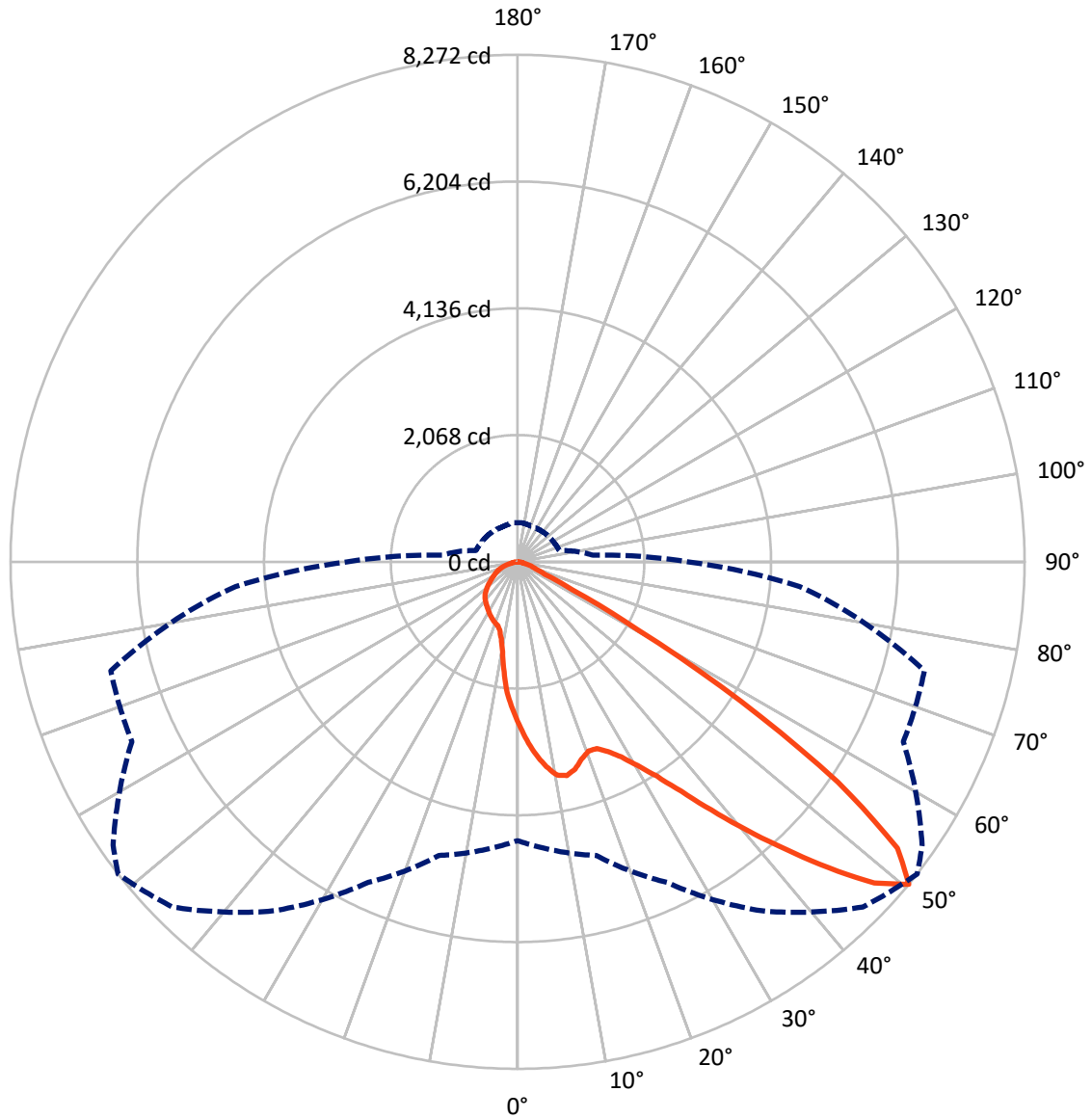
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P527240
CATALOG NUMBER: GALN-SA2B-730-U-AFL-GRSWH

Luminous Intensity Polar Plot



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

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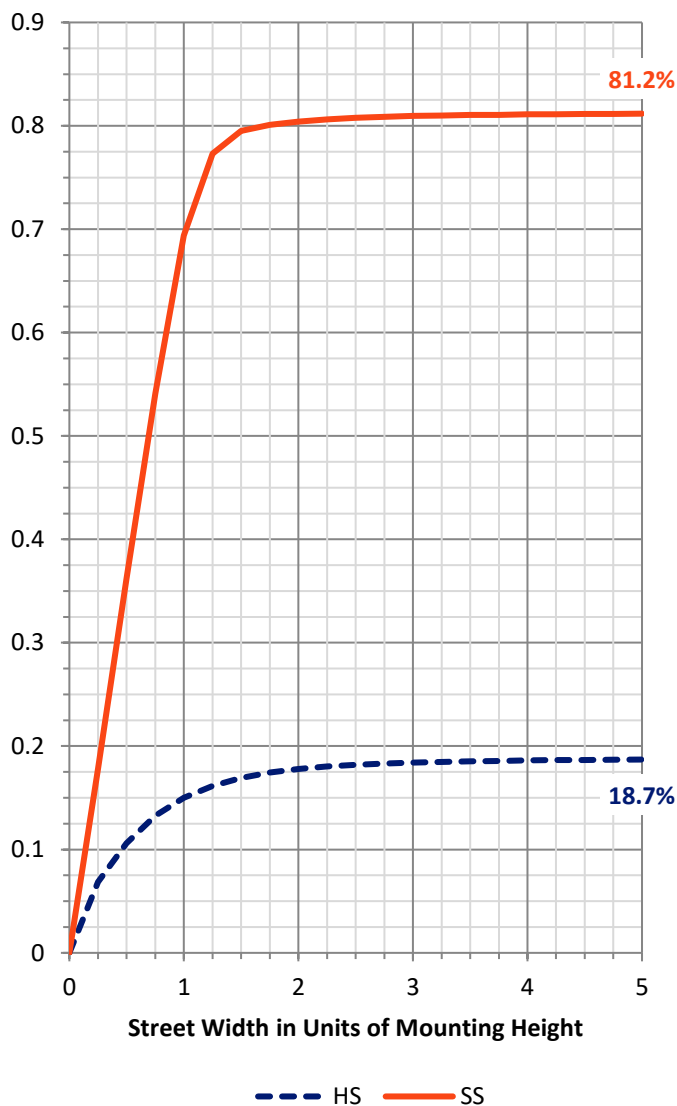
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1767.5	0.0	1767.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	7635.4	0.0	7635.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	9403.0	0.0	9403.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.3	2.6
10°-20°	654.8	7.0
20°-30°	1103.0	11.7
30°-40°	1850.9	19.7
40°-50°	2831.4	30.1
50°-60°	2064.3	22.0
60°-70°	459.4	4.9
70°-80°	165.7	1.8
80°-90°	29.3	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°	9403.0	100.0
0°-180°	9403.0	100.0

Coefficient of Utilization

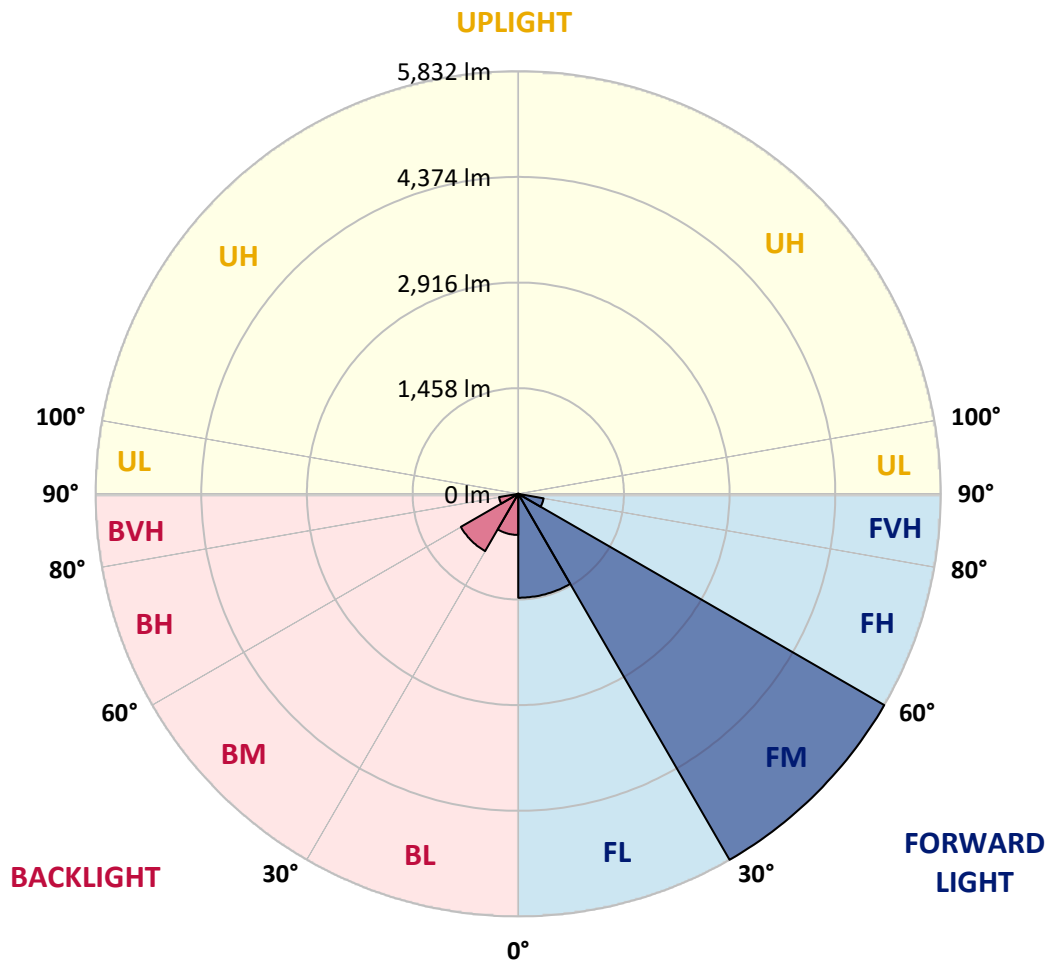


REPORT NUMBER: P527240
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.3	15.3			
FM (30°-60°)	5832.2	62.0			
FH (60°-80°)	355.8	3.8			G0/660
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	567.8	6.0	B2/1000		
BM (30°-60°)	914.3	9.7	B1/1000		
BH (60°-80°)	269.3	2.9	B1/500		G1/500
BVH (80°-90°)	16.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5
2.5°	3120.8	3060.8	3067.6	3024.5	2978.0	2964.4	2916.9	2871.5	2837.5	2765.0	2698.1
5°	3410.9	3392.8	3365.6	3331.6	3296.5	3210.3	3161.6	3105.0	2980.3	2868.1	2757.1
7.5°	3452.9	3449.5	3464.2	3464.2	3476.7	3443.8	3374.7	3335.0	3202.4	3020.0	2813.7
10°	3158.2	3168.4	3239.8	3332.7	3461.9	3551.4	3540.1	3529.9	3384.9	3135.6	2880.6
12.5°	2923.7	2901.0	2942.9	3022.2	3216.0	3432.5	3578.6	3579.8	3542.4	3320.3	2929.3
15°	2791.1	2806.9	2818.3	2855.7	3001.8	3252.3	3509.5	3585.4	3749.8	3450.6	3006.4
17.5°	2876.1	2822.8	2820.5	2829.6	2904.4	3092.5	3381.5	3511.8	3863.1	3618.3	3101.6
20°	2987.1	2986.0	2954.2	2942.9	2941.8	3109.5	3297.6	3474.4	3923.1	3835.9	3197.9
22.5°	3182.0	3182.0	3129.9	3105.0	3051.7	3188.8	3308.9	3429.1	4022.9	3985.5	3244.3
25°	3508.4	3455.1	3365.6	3304.4	3273.8	3322.5	3429.1	3536.7	4110.1	4144.1	3340.7
27.5°	3809.8	3726.0	3681.8	3576.4	3535.6	3507.2	3604.7	3713.5	4212.1	4391.1	3392.8
30°	4152.0	4137.3	4058.0	3922.0	3821.1	3769.0	3858.5	3966.2	4399.1	4643.8	3512.9
32.5°	4764.0	4630.2	4522.6	4356.0	4191.7	4080.6	4169.0	4240.4	4709.6	4907.9	3644.4
35°	5424.6	5381.6	5195.7	4895.4	4643.8	4544.1	4596.3	4649.5	5071.1	5311.3	3865.3
37.5°	6073.9	6015.0	5862.0	5609.3	5303.4	5100.5	5137.9	5200.2	5476.7	5855.2	4135.0
40°	6540.8	6468.3	6391.2	6353.8	6050.1	5772.5	5751.0	5766.8	6025.2	6365.2	4434.2
42.5°	6574.8	6664.3	6688.1	6838.8	6767.5	6539.7	6407.1	6410.5	6548.8	6869.4	4736.8
45°	6503.4	6420.7	6596.3	7007.7	7243.4	7349.9	7126.7	7098.4	6872.8	7161.8	4887.5
47.5°	5754.4	5777.0	6073.9	6724.4	7405.4	7881.4	7829.3	7735.2	7046.2	7151.6	4863.7
50°	4548.7	4685.8	4961.1	5771.4	6952.2	7965.2	8272.3	8054.8	6943.1	6870.6	4621.2
52.5°	3029.0	3085.7	3267.0	4313.0	5590.1	7119.9	7762.4	7812.3	6847.9	6502.3	4314.1
55°	1348.5	1344.0	1598.9	2252.8	3507.2	5417.8	6342.5	6646.2	6481.9	6127.2	4014.9
57.5°	571.1	590.4	694.7	973.4	1724.7	3269.3	4297.1	4563.4	4984.9	5031.4	3080.0
60°	386.4	388.7	417.0	487.3	721.8	1535.5	2253.9	2573.5	2874.9	2854.5	1634.1
62.5°	303.7	311.6	333.2	361.5	428.3	696.9	1008.5	1186.5	1205.7	1014.2	619.9
65°	259.5	260.6	282.2	306.0	335.4	405.7	486.1	495.2	500.9	482.7	455.5
67.5°	214.2	216.4	233.4	260.6	287.8	310.5	333.2	344.5	370.6	421.5	414.8
70°	170.0	173.4	188.1	210.8	235.7	249.3	277.6	287.8	311.6	351.3	367.2
72.5°	129.2	130.3	142.8	158.6	181.3	194.9	218.7	230.0	245.9	279.9	294.6
75°	92.9	96.3	105.4	113.3	116.7	125.8	148.4	160.9	183.6	198.3	199.4
77.5°	48.7	51.0	53.3	53.3	64.6	81.6	96.3	103.1	119.0	130.3	124.7
80°	19.3	20.4	26.1	35.1	45.3	58.9	69.1	72.5	86.1	92.9	96.3
82.5°	11.3	12.5	17.0	24.9	32.9	41.9	49.9	53.3	62.3	70.3	72.5
85°	5.7	6.8	10.2	15.9	21.5	26.1	24.9	23.8	23.8	22.7	23.8
87.5°	2.3	2.3	3.4	3.4	3.4	4.5	5.7	5.7	5.7	6.8	6.8
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°	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5	2650.5
2.5°	2653.9	2608.6	2566.7	2489.6	2405.8	2382.0	2284.5	2249.4	2224.5	2195.0	2185.9
5°	2667.5	2607.5	2472.6	2317.4	2193.9	2035.2	1931.0	1818.8	1737.2	1716.8	1711.1
7.5°	2695.9	2592.8	2360.5	2125.9	1873.2	1657.9	1493.6	1405.2	1327.0	1322.4	1314.5
10°	2727.6	2548.6	2238.1	1869.8	1546.8	1347.4	1248.8	1210.3	1191.0	1186.5	1184.2
12.5°	2753.7	2539.5	2100.9	1620.5	1315.6	1195.5	1166.1	1162.7	1170.6	1172.9	1177.4
15°	2765.0	2503.2	1935.5	1397.2	1171.7	1127.5	1140.0	1153.6	1159.3	1174.0	1162.7
17.5°	2786.5	2456.8	1731.5	1220.5	1091.3	1099.2	1120.7	1136.6	1145.7	1155.9	1141.1
20°	2797.9	2414.8	1540.0	1115.1	1062.9	1077.7	1107.1	1119.6	1130.9	1135.5	1118.5
22.5°	2787.7	2328.7	1371.2	1030.1	1035.7	1055.0	1081.1	1094.7	1087.9	1069.7	1059.5
25°	2760.5	2207.5	1195.5	975.7	997.2	1031.2	1051.6	1041.4	1028.9	1018.7	1015.3
27.5°	2759.3	2059.0	1068.6	925.8	964.4	1010.8	1004.0	994.9	1000.6	992.7	983.6
30°	2765.0	1915.1	964.4	897.5	940.6	963.2	971.2	962.1	968.9	954.2	958.7
32.5°	2735.5	1774.6	896.4	864.6	912.2	911.1	937.2	944.0	928.1	897.5	902.0
35°	2748.0	1661.3	838.6	849.9	880.5	880.5	900.9	893.0	851.0	832.9	837.4
37.5°	2834.1	1550.2	810.2	829.5	849.9	859.0	852.2	818.2	808.0	808.0	810.2
40°	2915.7	1455.0	793.2	825.0	821.6	827.2	777.4	780.8	780.8	781.9	776.2
42.5°	2988.2	1390.4	779.6	797.8	803.4	774.0	743.4	740.0	747.9	746.8	742.2
45°	3014.3	1337.2	760.4	767.2	771.7	723.0	708.2	701.4	710.5	713.9	718.4
47.5°	2914.6	1293.0	738.8	725.2	716.2	684.5	665.2	652.7	664.1	683.3	687.9
50°	2786.5	1235.2	704.8	678.8	659.5	645.9	632.3	619.9	627.8	641.4	638.0
52.5°	2597.3	1144.5	661.8	634.6	601.7	605.1	592.7	585.9	590.4	590.4	587.0
55°	2327.6	940.6	589.3	570.0	542.8	551.9	554.1	545.1	536.0	543.9	537.1
57.5°	1588.7	664.1	525.8	525.8	498.6	511.1	509.9	488.4	466.9	469.1	464.6
60°	919.0	529.2	485.0	480.5	452.1	462.3	464.6	449.9	417.0	419.3	414.8
62.5°	522.4	452.1	423.8	417.0	411.4	420.4	420.4	401.2	372.8	375.1	370.6
65°	444.2	419.3	378.5	377.4	375.1	377.4	368.3	347.9	323.0	312.8	313.9
67.5°	403.4	387.6	347.9	337.7	330.9	329.8	312.8	293.5	282.2	273.1	272.0
70°	353.6	341.1	311.6	298.0	291.2	275.4	258.4	245.9	230.0	225.5	230.0
72.5°	279.9	278.8	267.4	252.7	238.0	225.5	210.8	193.8	179.0	175.6	167.7
75°	193.8	196.0	198.3	196.0	183.6	167.7	150.7	137.1	119.0	108.8	106.5
77.5°	126.9	130.3	133.7	129.2	121.3	106.5	95.2	78.2	64.6	56.7	55.5
80°	92.9	97.5	99.7	96.3	87.3	75.9	63.5	49.9	39.7	32.9	32.9
82.5°	71.4	75.9	78.2	72.5	63.5	54.4	45.3	35.1	27.2	21.5	20.4
85°	24.9	23.8	28.3	29.5	35.1	32.9	27.2	20.4	15.9	11.3	10.2
87.5°	6.8	6.8	7.9	7.9	6.8	5.7	5.7	5.7	4.5	3.4	3.4
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)