

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: P527972

Luminaire Tested: **GALN-SA3A-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527972
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10779 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

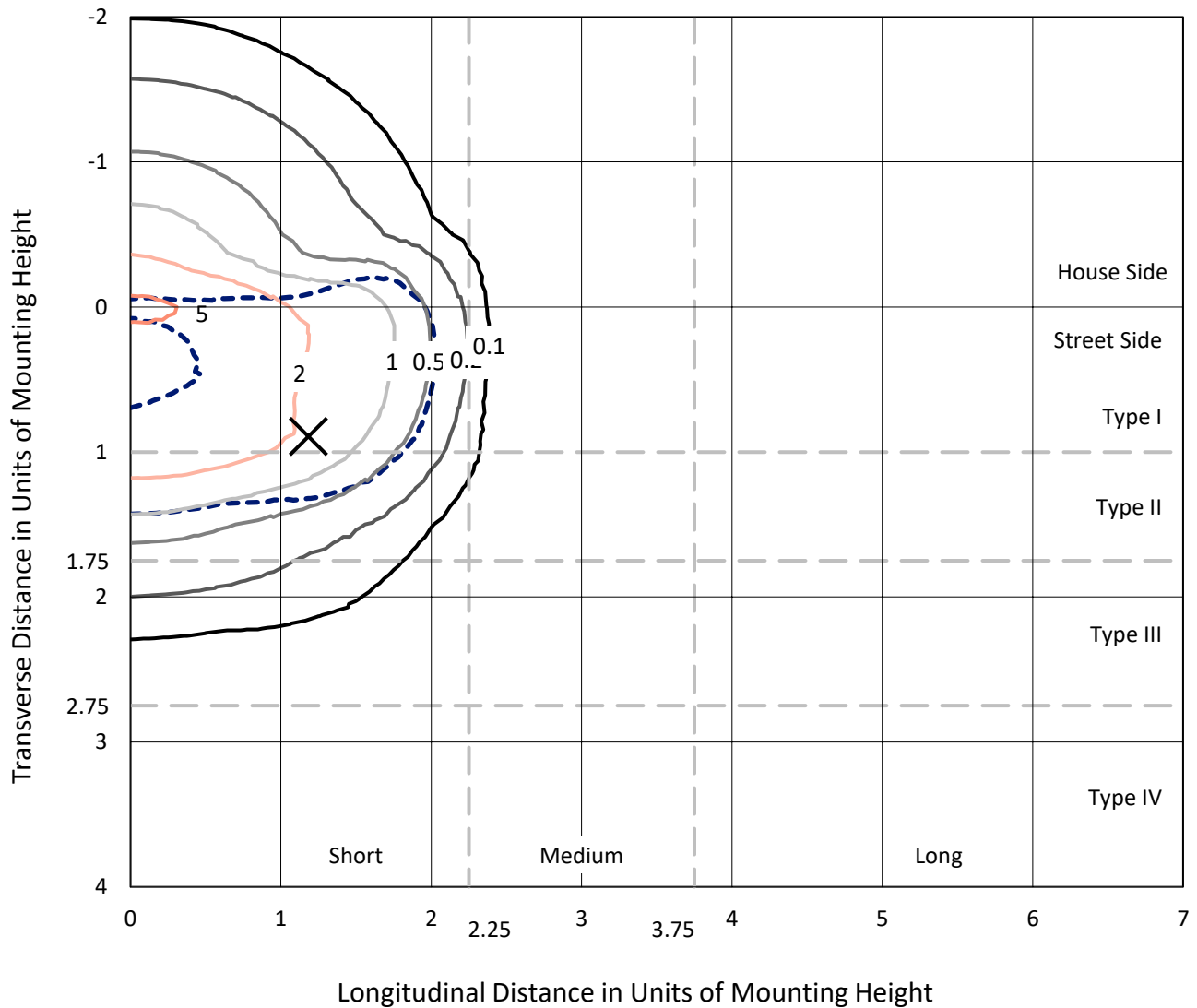
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

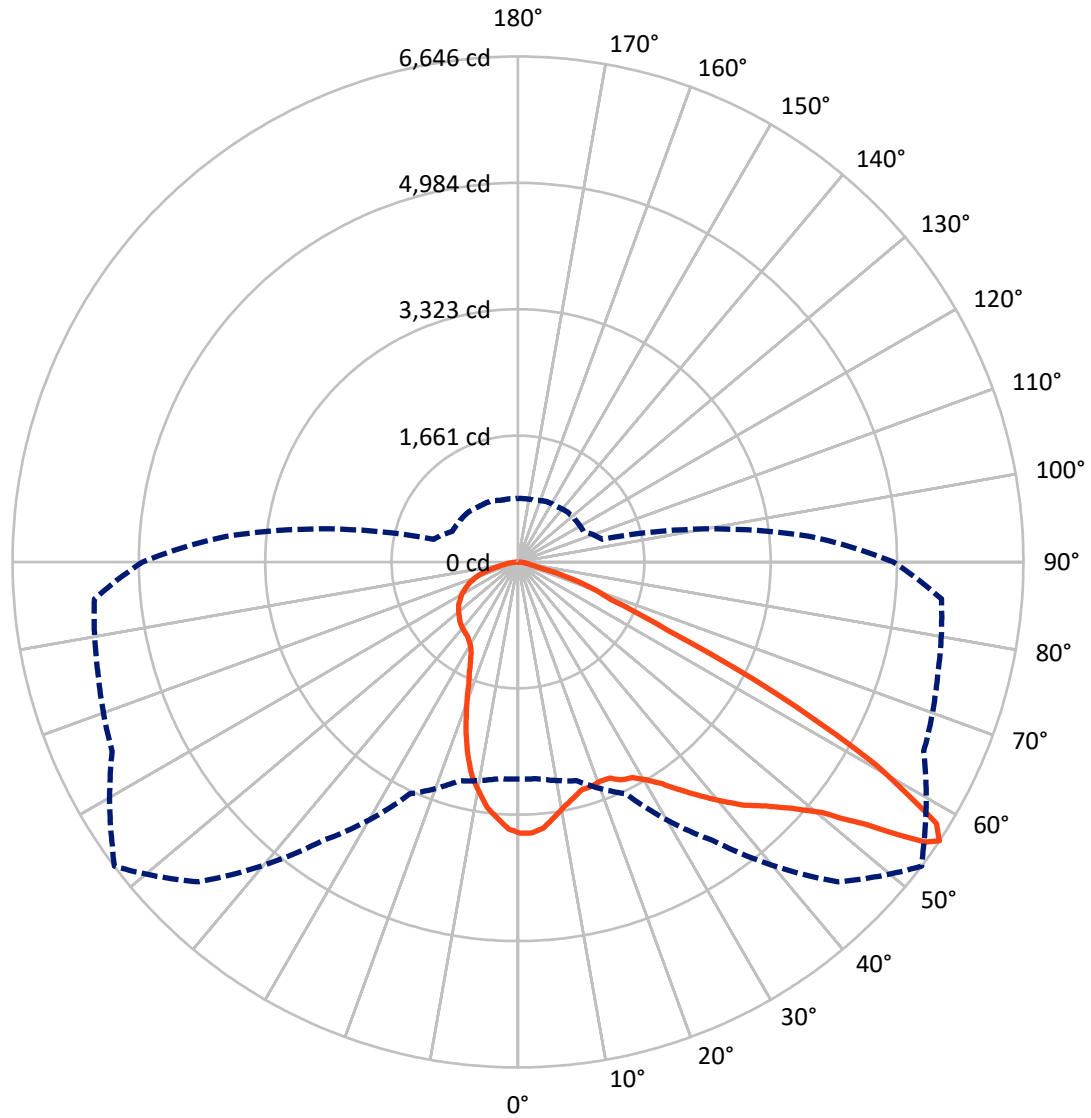
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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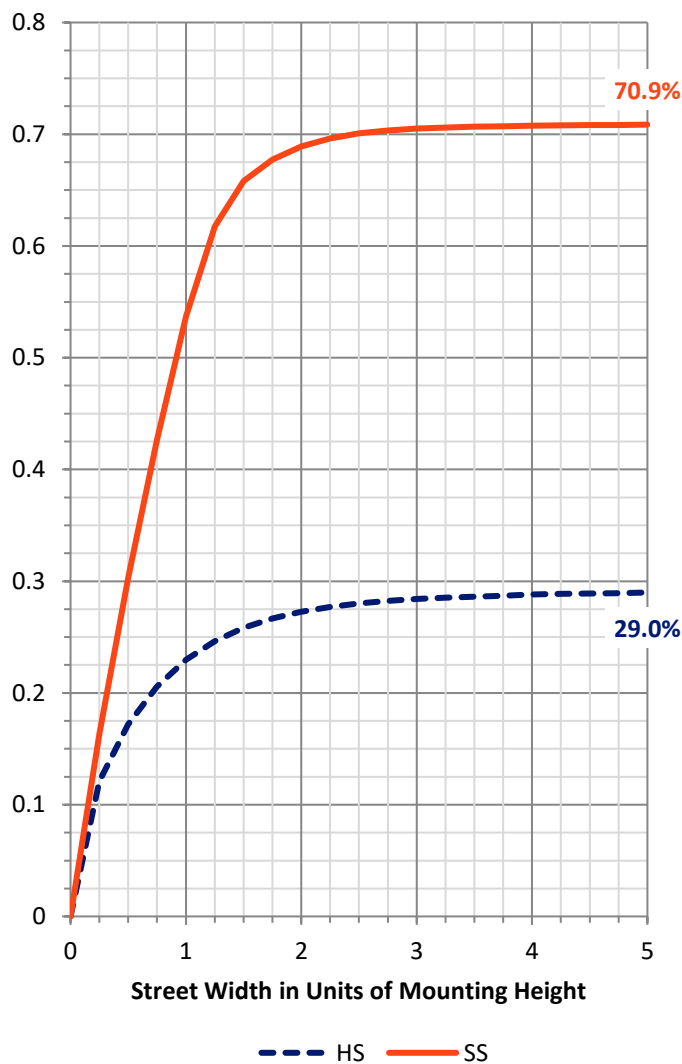
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3145.5	0.0	3145.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	7633.5	0.0	7633.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	10779.0	0.0	10779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.7	2.9
10°-20°	788.5	7.3
20°-30°	1162.7	10.8
30°-40°	1661.3	15.4
40°-50°	2286.5	21.2
50°-60°	2702.0	25.1
60°-70°	1440.0	13.4
70°-80°	365.3	3.4
80°-90°	57.0	0.5
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°	10779.0	100.0
0°-180°	10779.0	100.0

Coefficient of Utilization

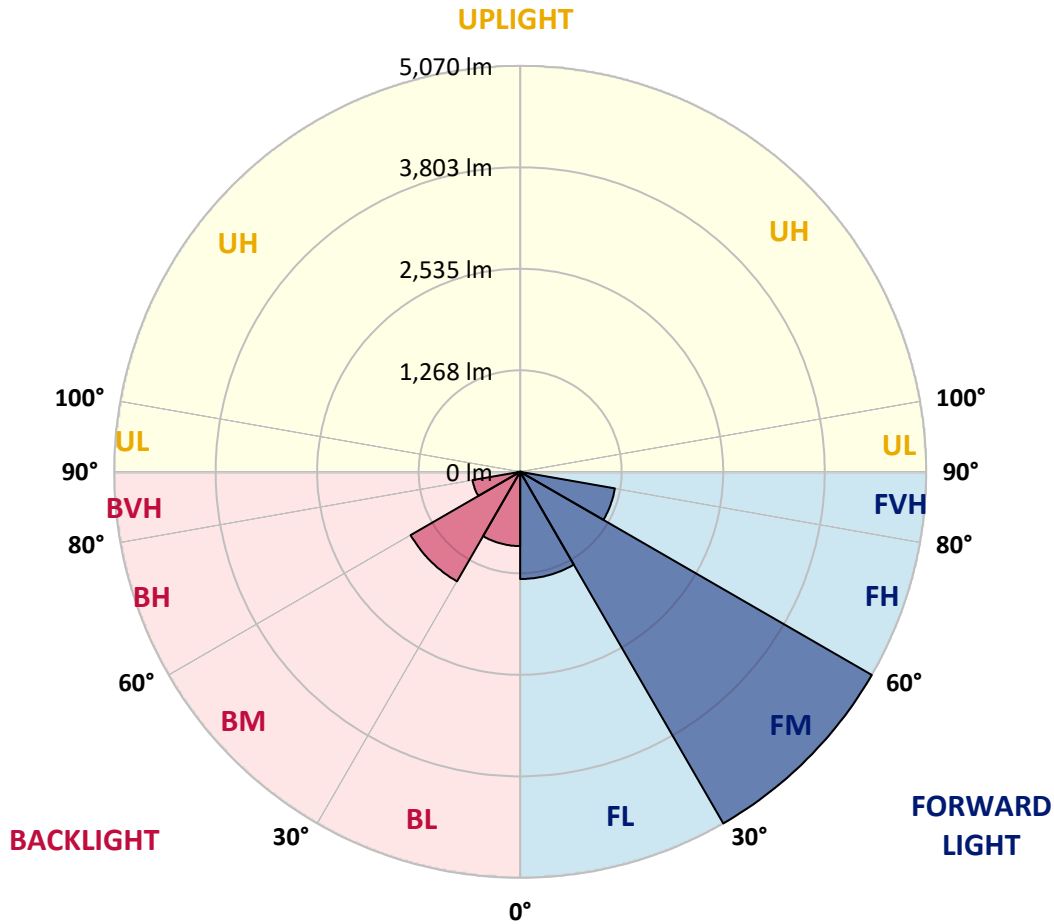


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1339.1	12.4			
FM (30°-60°)	5070.2	47.0			
FH (60°-80°)	1201.2	11.1			G1/1800
FVH (80°-90°)	22.9	0.2			G1/100
BL (0°-30°)	927.8	8.6	B2/1000		
BM (30°-60°)	1579.6	14.7	B2/2500		
BH (60°-80°)	604.1	5.6	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1
2.5°	3521.9	3491.4	3509.4	3502.5	3559.2	3575.8	3567.5	3574.4	3606.2	3591.0	3559.2
5°	3291.0	3333.8	3342.1	3362.9	3396.0	3461.0	3512.2	3526.0	3541.2	3611.7	3604.8
7.5°	3080.8	3109.8	3094.6	3155.4	3227.3	3332.4	3394.7	3405.7	3545.4	3584.1	3613.1
10°	2948.0	2919.0	2988.1	3004.7	3086.3	3206.6	3281.3	3326.9	3454.1	3607.6	3625.6
12.5°	2825.0	2815.3	2856.8	2903.8	2995.0	3119.5	3195.5	3213.5	3409.9	3571.6	3656.0
15°	2733.7	2722.6	2764.1	2798.7	2905.2	3015.8	3112.6	3163.7	3361.5	3550.9	3629.7
17.5°	2661.8	2660.4	2683.9	2746.1	2855.4	2948.0	3104.3	3107.0	3336.6	3582.7	3651.8
20°	2657.6	2656.3	2660.4	2729.6	2829.1	2942.5	3078.0	3102.9	3336.6	3560.6	3653.2
22.5°	2692.2	2670.1	2695.0	2739.2	2811.1	2952.2	3087.7	3143.0	3416.8	3669.8	3715.5
25°	2747.5	2753.1	2766.9	2782.1	2823.6	2974.3	3173.4	3219.0	3510.8	3763.9	3801.2
27.5°	2848.5	2845.7	2851.2	2859.5	2895.5	2995.0	3208.0	3325.5	3707.2	3931.2	3893.8
30°	2996.4	2986.7	3008.9	3037.9	3004.7	3061.4	3322.8	3411.2	3889.7	4099.9	3997.5
32.5°	3130.6	3166.5	3208.0	3220.4	3180.3	3191.4	3474.9	3564.7	4041.8	4307.3	4124.7
35°	3297.9	3326.9	3382.2	3420.9	3414.0	3380.8	3682.3	3801.2	4261.6	4459.4	4258.9
37.5°	3461.0	3495.6	3586.9	3701.6	3638.0	3622.8	3903.5	4001.7	4329.4	4541.0	4357.1
40°	3723.8	3722.4	3880.0	3939.5	3996.2	3969.9	4133.0	4166.2	4365.3	4523.0	4359.8
42.5°	4032.1	4012.7	4173.1	4265.8	4339.1	4341.8	4372.3	4361.2	4381.9	4431.7	4330.8
45°	4325.2	4366.7	4528.5	4694.4	4767.7	4776.0	4574.1	4553.4	4411.0	4405.4	4275.5
47.5°	4683.4	4693.1	4825.8	5044.3	5214.4	5156.3	4835.5	4789.9	4538.2	4581.1	4368.1
50°	4704.1	4776.0	4894.9	5152.1	5674.8	5659.6	5174.3	5088.5	4742.8	4830.0	4626.7
52.5°	4269.9	4253.3	4394.4	4814.7	5640.2	6160.2	5735.7	5531.0	5182.6	5116.2	5045.7
55°	3253.6	3292.3	3416.8	3841.3	4897.7	6167.1	6500.3	6333.0	5652.7	5539.3	5457.7
56°	2854.0	2859.5	2977.1	3364.2	4469.1	5947.2	6645.5	6510.0	5886.4	5713.5	5589.1
57.5°	2365.9	2334.1	2394.9	2606.5	3772.1	5482.6	6486.5	6619.2	6160.2	5901.6	5728.7
60°	1862.6	1855.7	1830.8	1869.5	2383.9	4130.3	5399.6	5698.3	6132.5	5724.6	5486.8
62.5°	1521.0	1486.5	1536.2	1591.5	1656.5	2562.2	3794.3	3969.9	4868.7	4570.0	4122.0
65°	1179.5	1162.9	1225.1	1404.9	1443.6	1627.5	2161.2	2296.8	2874.7	2823.6	2486.2
67.5°	811.7	814.4	868.4	1142.2	1338.5	1321.9	1323.3	1393.8	1500.3	1114.5	970.7
70°	514.4	513.0	542.0	735.6	1077.2	1088.2	1032.9	1012.2	959.6	580.8	615.3
72.5°	330.5	320.8	336.0	406.5	557.2	644.4	663.7	676.2	555.9	456.3	495.0
75°	186.7	177.0	171.5	189.4	219.9	254.4	279.3	287.6	322.2	345.7	366.4
77.5°	56.7	51.2	62.2	83.0	109.2	146.6	178.4	183.9	217.1	244.7	265.5
80°	24.9	27.7	38.7	55.3	77.4	103.7	125.8	134.1	156.3	177.0	182.5
82.5°	15.2	16.6	26.3	37.3	53.9	73.3	89.9	92.6	114.8	131.4	135.5
85°	5.5	6.9	13.8	22.1	34.6	47.0	47.0	51.2	47.0	47.0	51.2
87.5°	0.0	0.0	1.4	2.8	2.8	4.1	5.5	5.5	6.9	8.3	9.7
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°	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1	3566.1
2.5°	3575.8	3568.9	3557.8	3517.7	3513.6	3501.1	3432.0	3420.9	3432.0	3398.8	3401.6
5°	3568.9	3589.6	3506.7	3466.6	3391.9	3338.0	3275.7	3243.9	3187.2	3151.3	3191.4
7.5°	3599.3	3591.0	3487.3	3400.2	3288.2	3151.3	3042.1	2979.8	2880.3	2852.6	2873.4
10°	3588.2	3544.0	3422.3	3307.5	3096.0	2975.7	2798.7	2627.2	2533.2	2484.8	2477.9
12.5°	3573.0	3560.6	3357.3	3159.6	2937.0	2683.9	2435.0	2273.2	2119.8	2053.4	2063.1
15°	3591.0	3485.9	3235.6	2985.4	2689.5	2357.6	2089.3	1880.5	1774.1	1731.2	1731.2
17.5°	3582.7	3450.0	3177.6	2790.4	2415.7	2023.0	1728.4	1602.6	1558.4	1558.4	1570.8
20°	3586.9	3473.5	3060.0	2595.4	2092.1	1703.6	1489.2	1443.6	1463.0	1469.9	1476.8
22.5°	3610.4	3396.0	2945.3	2381.1	1792.0	1457.4	1352.3	1353.7	1388.3	1425.6	1418.7
25°	3639.4	3365.6	2805.6	2168.2	1562.5	1337.1	1303.9	1299.8	1326.1	1345.4	1348.2
27.5°	3614.5	3313.1	2663.2	1902.7	1374.5	1256.9	1250.0	1252.8	1261.1	1299.8	1287.3
30°	3696.1	3328.3	2484.8	1680.0	1270.7	1230.6	1222.4	1218.2	1230.6	1241.7	1232.0
32.5°	3797.0	3274.4	2352.1	1465.7	1219.6	1211.3	1194.7	1189.2	1196.1	1185.0	1190.5
35°	3841.3	3264.7	2179.2	1312.2	1179.5	1172.6	1162.9	1161.5	1162.9	1153.2	1144.9
37.5°	3866.2	3310.3	1981.5	1241.7	1154.6	1161.5	1139.4	1136.6	1111.7	1117.3	1121.4
40°	3909.0	3239.8	1821.1	1174.0	1139.4	1125.6	1106.2	1102.1	1085.5	1075.8	1085.5
42.5°	3846.8	3219.0	1663.5	1144.9	1117.3	1102.1	1088.2	1064.7	1059.2	1050.9	1045.4
45°	3797.0	3100.1	1522.4	1109.0	1091.0	1082.7	1056.4	1031.5	1010.8	1019.1	1006.6
47.5°	3834.4	3058.6	1382.8	1078.5	1055.0	1045.4	1019.1	999.7	979.0	969.3	966.5
50°	3983.7	3136.1	1265.2	1056.4	1024.6	1019.1	984.5	962.4	943.0	936.1	938.9
52.5°	4340.5	3347.6	1185.0	1010.8	995.6	970.7	951.3	923.7	911.2	889.1	902.9
55°	4792.6	3691.9	1164.3	967.9	959.6	937.5	911.2	890.5	867.0	849.0	844.9
56°	4937.8	3856.5	1147.7	951.3	937.5	925.1	890.5	878.0	840.7	836.6	833.8
57.5°	5055.3	4001.7	1150.4	919.5	905.7	894.6	873.9	843.5	818.6	803.4	810.3
60°	4789.9	3745.9	1097.9	871.1	868.4	847.6	818.6	804.8	774.3	756.4	752.2
62.5°	3560.6	2542.9	890.5	808.9	807.5	785.4	752.2	737.0	731.5	706.6	706.6
65°	2050.6	1594.3	770.2	757.7	746.7	724.6	691.4	678.9	665.1	656.8	649.9
67.5°	875.3	826.9	699.7	698.3	685.8	658.2	625.0	605.6	587.7	571.1	579.4
70°	634.7	644.4	631.9	625.0	609.8	575.2	546.2	522.7	495.0	484.0	492.3
72.5°	503.3	524.1	542.0	543.4	525.4	485.3	453.5	421.7	391.3	376.1	383.0
75°	381.6	395.5	413.4	417.6	391.3	363.7	333.2	300.1	276.6	258.6	261.3
77.5°	275.2	272.4	289.0	286.2	273.8	254.4	226.8	196.4	170.1	153.5	154.9
80°	188.1	192.2	201.9	200.5	185.3	172.8	152.1	127.2	107.9	94.0	91.3
82.5°	131.4	138.3	146.6	139.7	127.2	114.8	99.6	81.6	66.4	55.3	52.5
85°	47.0	53.9	62.2	66.4	70.5	67.8	56.7	45.6	33.2	27.7	26.3
87.5°	9.7	11.1	12.4	12.4	12.4	11.1	9.7	9.7	8.3	4.1	4.1
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)