

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: P527246

Luminaire Tested: **GALN-SA2B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8816 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

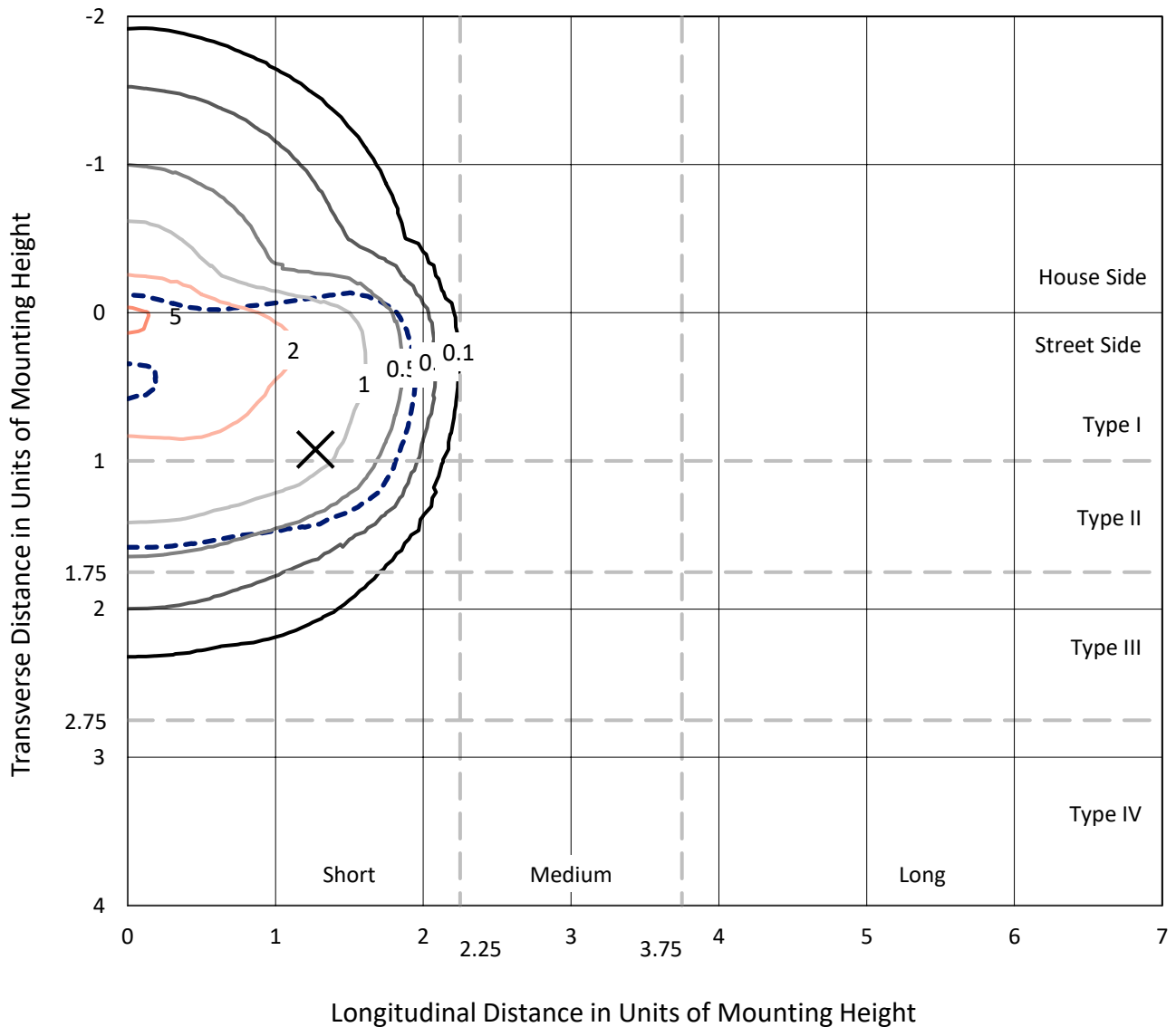
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

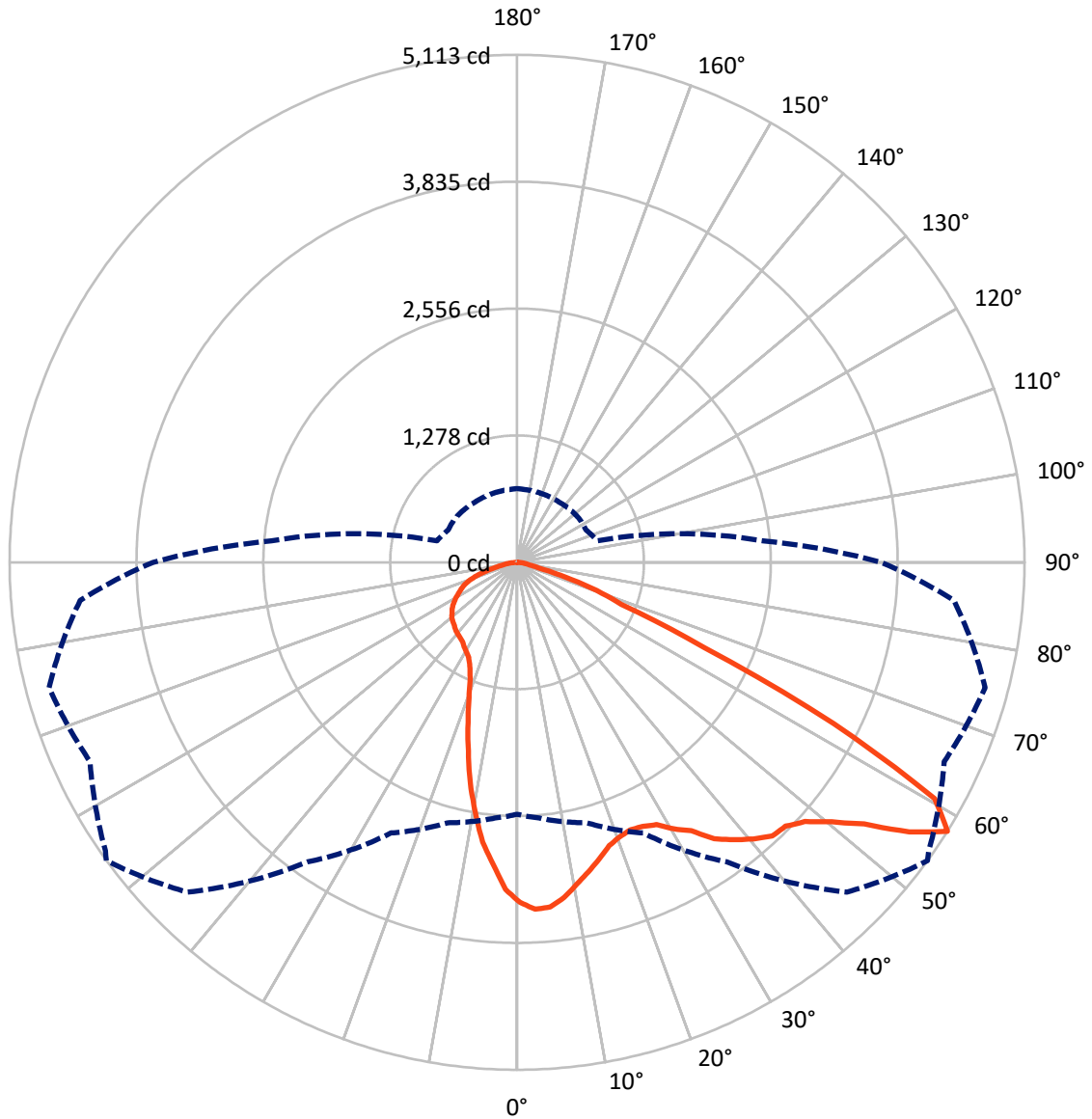
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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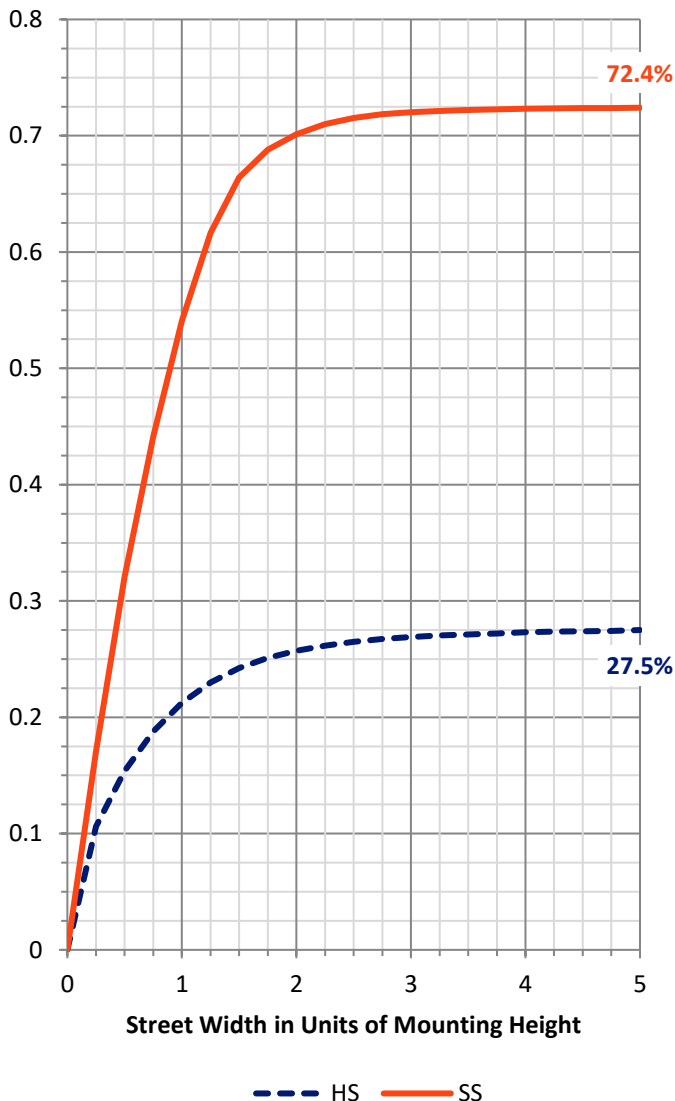
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2439.0	0.0	2439.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	6377.0	0.0	6377.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	8816.0	0.0	8816.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.5	3.4
10°-20°	684.2	7.8
20°-30°	961.4	10.9
30°-40°	1344.0	15.2
40°-50°	1819.5	20.6
50°-60°	2216.2	25.1
60°-70°	1154.3	13.1
70°-80°	295.8	3.4
80°-90°	45.1	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°	8816.0	100.0
0°-180°	8816.0	100.0

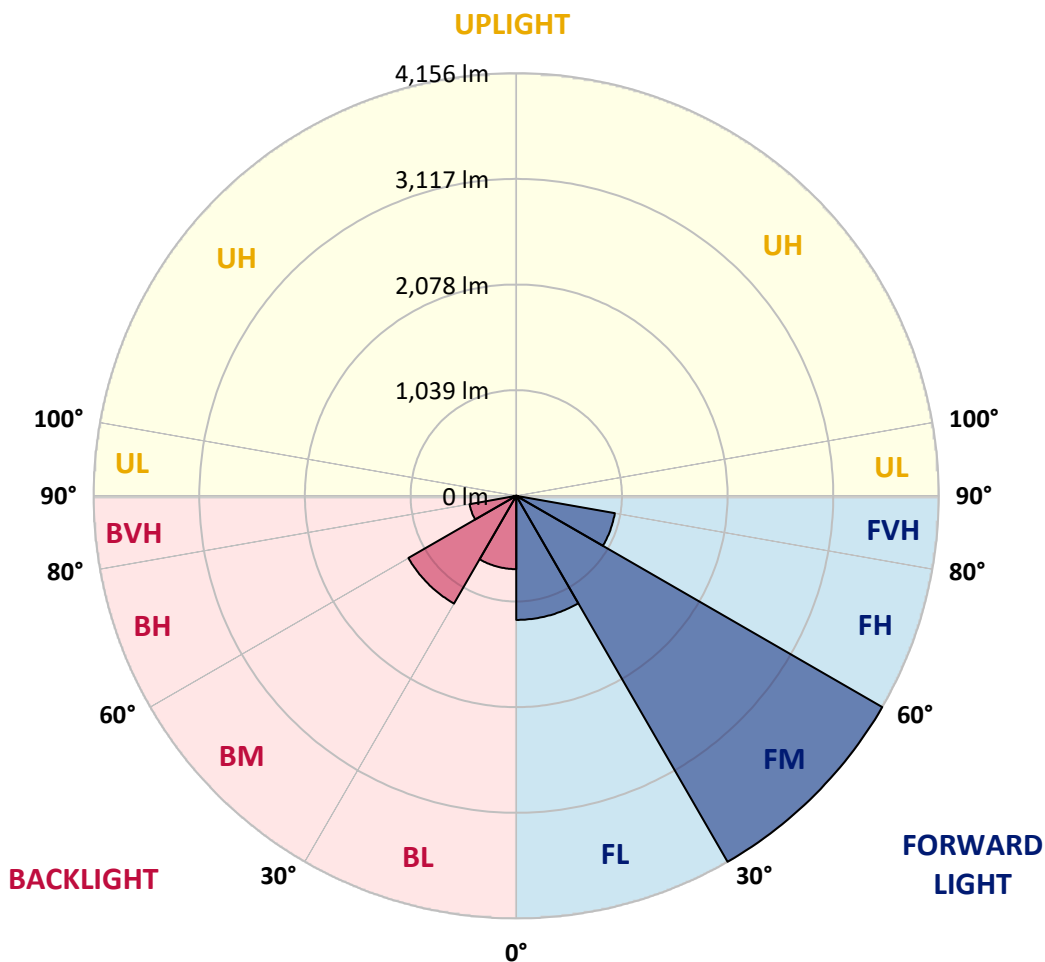


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.3	13.8			
FM (30°-60°)	4155.6	47.1			
FH (60°-80°)	984.1	11.2			G1/1800
FVH (80°-90°)	17.1	0.2			G1/100
BL (0°-30°)	720.8	8.2	B2/1000		
BM (30°-60°)	1224.1	13.9	B2/2500		
BH (60°-80°)	466.0	5.3	B1/500		G1/500
BVH (80°-90°)	28.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3524.1	3510.5	3512.8	3530.9	3508.3	3499.2	3499.2	3455.0	3458.4	3427.8	3419.9
5°	3442.5	3410.8	3432.3	3459.5	3464.1	3473.1	3487.9	3476.5	3444.8	3411.9	3358.7
7.5°	3229.5	3257.8	3265.8	3285.0	3325.8	3363.2	3409.7	3378.0	3376.8	3344.0	3312.2
10°	3042.5	3025.5	3068.6	3096.9	3164.9	3227.2	3298.6	3295.2	3312.2	3274.8	3220.4
12.5°	2856.7	2843.1	2863.5	2928.1	3023.3	3113.9	3198.9	3167.2	3257.8	3251.0	3134.3
15°	2659.5	2669.7	2699.2	2759.2	2883.9	2992.7	3100.3	3101.5	3181.9	3209.1	3052.7
17.5°	2521.3	2510.0	2547.3	2636.9	2747.9	2878.2	3000.6	3025.5	3149.1	3164.9	3027.8
20°	2418.2	2434.0	2482.8	2528.1	2656.1	2813.6	2951.9	2960.9	3142.3	3185.3	2988.1
22.5°	2393.2	2384.2	2400.0	2473.7	2579.1	2750.2	2925.8	2959.8	3141.1	3178.5	2913.4
25°	2367.2	2396.6	2395.5	2469.2	2546.2	2699.2	2947.4	2984.7	3201.2	3213.6	2923.6
27.5°	2426.1	2422.7	2454.4	2460.1	2555.3	2712.8	2992.7	3021.0	3300.9	3290.7	2931.5
30°	2485.0	2468.0	2487.3	2554.1	2598.3	2791.0	3117.3	3115.1	3430.1	3423.3	2956.4
32.5°	2557.5	2549.6	2562.1	2621.0	2695.8	2895.2	3222.7	3289.6	3561.5	3604.6	3042.5
35°	2571.1	2604.0	2633.5	2712.8	2819.3	3064.1	3421.0	3476.5	3713.4	3848.2	3206.8
37.5°	2657.3	2669.7	2738.8	2879.4	2976.8	3289.6	3546.8	3581.9	3851.6	4004.6	3380.2
40°	2749.0	2763.8	2868.0	3015.3	3149.1	3436.9	3664.6	3676.0	3895.8	4124.7	3493.5
42.5°	2873.7	2887.3	2990.4	3175.1	3354.2	3562.7	3768.9	3781.4	3892.4	4263.0	3673.7
45°	3002.9	3035.7	3157.0	3366.6	3527.5	3710.0	3792.7	3843.7	3924.1	4386.5	3819.9
47.5°	3184.2	3214.8	3314.5	3519.6	3707.7	3839.1	3902.6	3952.5	4000.1	4494.1	3913.9
50°	3376.8	3382.5	3503.7	3689.6	3827.8	3985.3	4107.7	4124.7	4099.8	4618.8	4073.7
52.5°	3518.5	3536.6	3630.6	3812.0	4018.2	4212.0	4379.7	4397.8	4349.1	4665.2	4128.1
55°	3283.9	3273.7	3426.7	3668.0	4146.2	4549.6	4793.3	4806.9	4530.4	4809.1	4306.0
57.5°	2538.3	2587.0	2717.3	3008.5	3683.9	4699.2	5112.8	5064.1	4747.9	4881.7	4419.3
60°	1844.8	1833.5	1920.7	2115.6	2776.2	4049.9	4834.1	4883.9	4570.0	4400.1	3644.2
62.5°	1502.6	1486.7	1493.5	1500.3	1791.5	2687.9	3578.5	3577.4	3519.6	3162.7	2457.8
65°	1201.2	1238.5	1241.9	1292.9	1330.3	1605.7	2073.7	2184.7	1902.6	1560.4	1132.0
67.5°	905.4	891.8	937.1	1118.4	1188.7	1159.2	1132.0	1144.5	813.6	587.0	553.0
70°	533.7	528.1	582.4	779.6	979.1	921.3	853.3	854.4	558.6	410.2	456.7
72.5°	292.4	291.2	302.6	395.5	556.4	577.9	512.2	528.1	333.1	332.0	356.9
75°	163.2	159.8	156.4	174.5	200.6	211.9	216.4	218.7	228.9	256.1	266.3
77.5°	60.1	57.8	57.8	66.9	85.0	106.5	134.8	137.1	162.0	185.8	196.0
80°	20.4	22.7	30.6	41.9	56.7	75.9	91.8	94.1	114.4	130.3	133.7
82.5°	12.5	13.6	20.4	29.5	40.8	53.3	68.0	69.1	85.0	95.2	99.7
85°	5.7	6.8	11.3	18.1	26.1	35.1	36.3	36.3	35.1	36.3	34.0
87.5°	0.0	0.0	2.3	2.3	2.3	3.4	4.5	3.4	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°	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7	3426.7
2.5°	3396.1	3383.6	3345.1	3311.1	3300.9	3255.6	3188.7	3196.6	3147.9	3170.6	3146.8
5°	3349.6	3307.7	3209.1	3167.2	3057.3	3007.4	2973.4	2888.4	2848.8	2840.8	2806.8
7.5°	3230.6	3204.6	3081.1	2967.7	2851.0	2751.3	2623.3	2536.0	2473.7	2456.7	2406.8
10°	3136.6	3078.8	2907.7	2735.5	2568.9	2395.5	2228.9	2098.6	2035.2	1961.5	1936.6
12.5°	3043.7	2956.4	2725.3	2504.3	2289.0	2070.3	1868.6	1709.9	1571.7	1538.8	1527.5
15°	2985.9	2834.0	2562.1	2295.8	1989.8	1704.3	1502.6	1398.3	1313.3	1278.2	1303.1
17.5°	2910.0	2733.2	2405.7	2051.0	1714.5	1451.6	1282.7	1218.1	1187.6	1191.0	1180.8
20°	2814.8	2638.0	2200.6	1828.9	1468.6	1258.9	1162.6	1138.8	1143.4	1151.3	1147.9
22.5°	2746.8	2522.4	2052.2	1602.3	1269.1	1152.4	1112.8	1095.8	1110.5	1117.3	1111.6
25°	2694.7	2423.8	1872.0	1401.7	1153.6	1092.4	1074.2	1073.1	1095.8	1104.8	1099.2
27.5°	2647.1	2332.0	1692.9	1248.7	1076.5	1045.9	1040.2	1053.8	1068.6	1077.6	1085.6
30°	2618.7	2261.8	1525.2	1120.7	1038.0	1023.2	1013.0	1025.5	1033.4	1042.5	1038.0
32.5°	2645.9	2211.9	1363.2	1048.2	1006.2	991.5	1005.1	997.2	1010.8	1018.7	1006.2
35°	2730.9	2167.7	1247.6	1009.6	970.0	975.7	977.9	974.5	980.2	973.4	988.1
37.5°	2814.8	2151.9	1141.1	976.8	953.0	953.0	950.7	943.9	955.3	953.0	959.8
40°	2921.3	2162.1	1050.4	941.7	937.1	934.9	925.8	924.7	920.1	921.3	923.5
42.5°	3014.2	2184.7	998.3	919.0	922.4	926.9	909.9	896.3	902.0	890.7	890.7
45°	3112.8	2205.1	951.9	903.1	899.7	898.6	885.0	877.1	872.5	873.7	883.9
47.5°	3268.0	2234.6	916.7	881.6	883.9	866.9	863.5	853.3	857.8	864.6	865.7
50°	3378.0	2296.9	889.5	856.7	864.6	853.3	832.9	828.3	828.3	839.7	837.4
52.5°	3455.0	2384.2	863.5	829.5	832.9	823.8	817.0	806.8	800.0	815.9	823.8
55°	3690.7	2529.2	856.7	806.8	805.7	796.6	784.1	773.9	770.5	772.8	788.7
57.5°	3668.0	2483.9	835.1	767.1	764.9	752.4	740.0	736.6	735.4	737.7	742.2
60°	2977.9	1834.6	745.6	721.8	718.4	716.2	703.7	690.1	683.3	690.1	684.4
62.5°	1970.6	1228.3	657.2	667.4	669.7	664.0	643.6	630.0	632.3	640.2	627.8
65°	967.7	721.8	596.0	623.2	625.5	609.6	590.4	574.5	566.6	573.4	567.7
67.5°	553.0	551.8	546.2	574.5	573.4	557.5	526.9	513.3	499.7	502.0	498.6
70°	469.1	478.2	489.5	506.5	505.4	487.3	451.0	440.8	421.5	419.3	413.6
72.5°	369.4	385.3	410.2	422.7	412.5	389.8	366.0	349.0	332.0	321.8	325.2
75°	274.2	296.9	310.5	318.4	302.6	290.1	270.8	250.4	230.0	221.0	217.6
77.5°	199.4	206.2	218.7	224.4	214.2	201.7	190.4	170.0	150.7	138.2	134.8
80°	139.4	143.9	153.0	153.0	153.0	147.3	132.6	112.2	99.7	88.4	86.1
82.5°	97.5	102.0	111.0	106.5	105.4	98.6	89.5	73.7	60.1	52.1	49.9
85°	34.0	37.4	45.3	54.4	57.8	56.7	51.0	40.8	31.7	26.1	23.8
87.5°	7.9	7.9	9.1	7.9	7.9	9.1	7.9	7.9	7.9	5.7	4.5
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)