

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: P528078

Luminaire Tested: **GALN-SA3A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528078
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-SA3A-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA 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: 8490 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

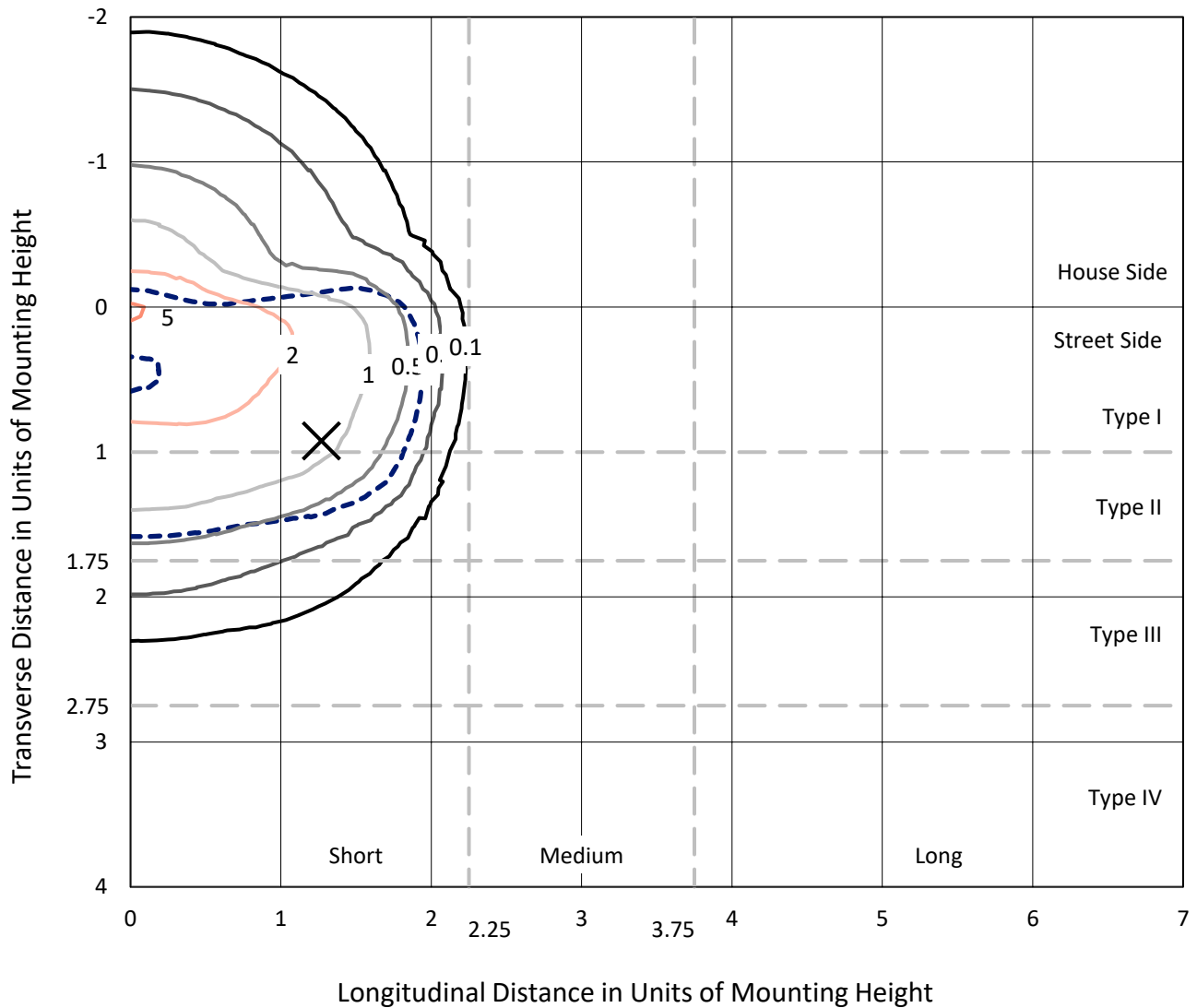
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

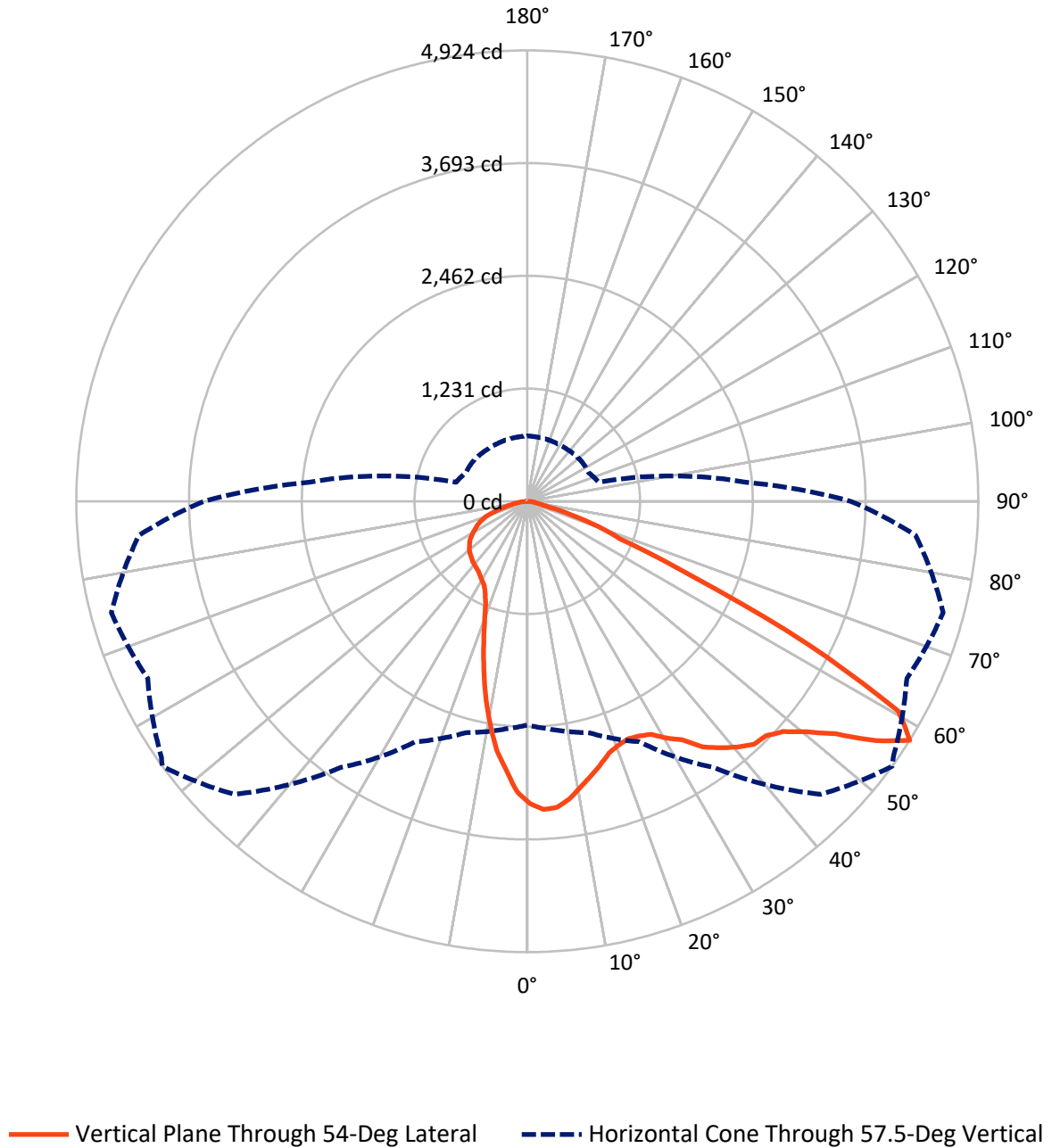
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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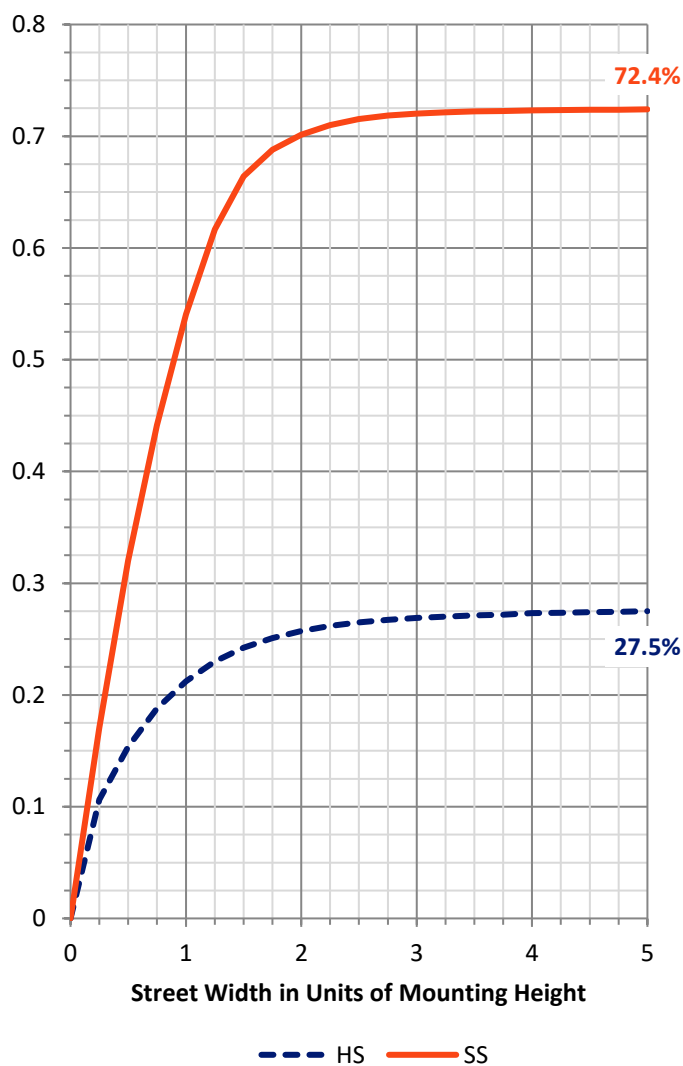
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2348.8	0.0	2348.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	6141.2	0.0	6141.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	8490.0	0.0	8490.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	3.4
10°-20°	658.9	7.8
20°-30°	925.8	10.9
30°-40°	1294.3	15.2
40°-50°	1752.2	20.6
50°-60°	2134.3	25.1
60°-70°	1111.6	13.1
70°-80°	284.8	3.4
80°-90°	43.4	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°	8490.0	100.0
0°-180°	8490.0	100.0

Coefficient of Utilization

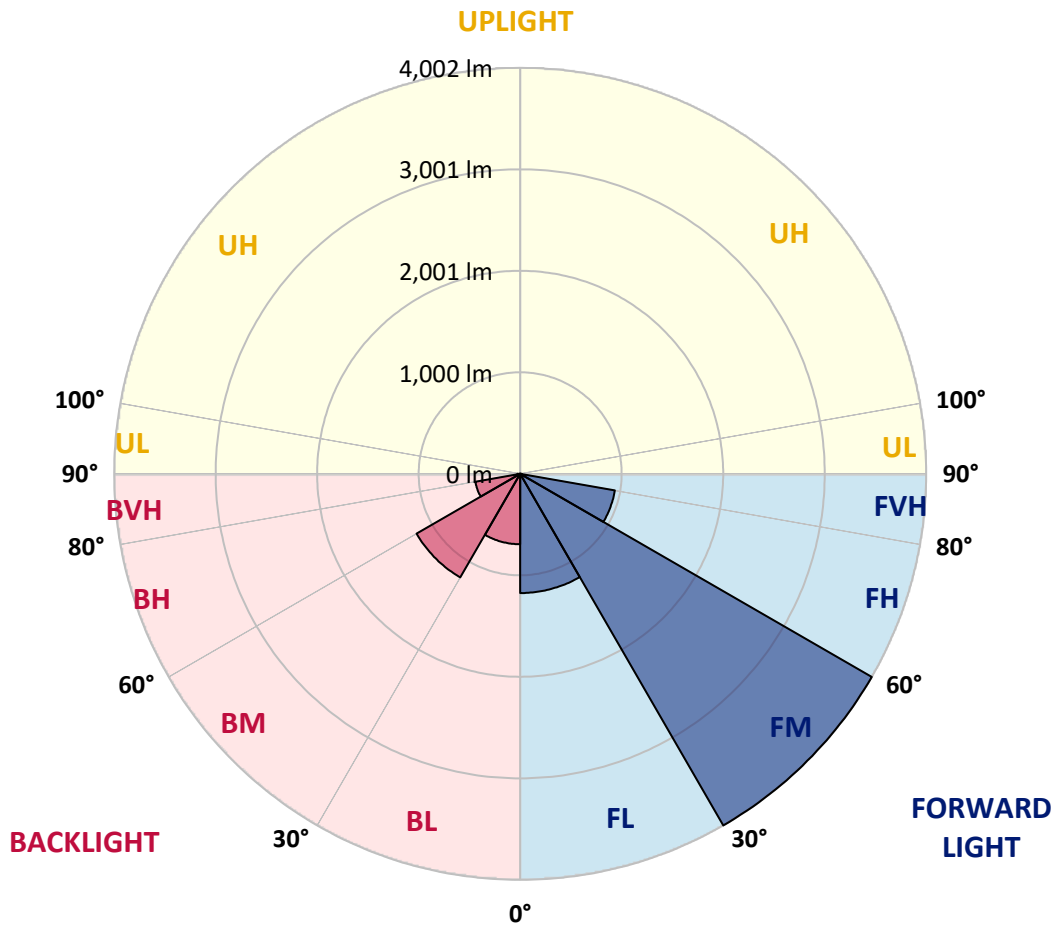


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1175.1	13.8			
FM (30°-60°)	4001.9	47.1			
FH (60°-80°)	947.7	11.2			G1/1800
FVH (80°-90°)	16.4	0.2			G1/100
BL (0°-30°)	694.2	8.2	B2/1000		
BM (30°-60°)	1178.8	13.9	B2/2500		
BH (60°-80°)	448.7	5.3	B1/500		G1/500
BVH (80°-90°)	27.0	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°	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0
2.5°	3393.8	3380.7	3382.9	3400.4	3378.5	3369.8	3369.8	3327.2	3330.5	3301.1	3293.4
5°	3315.2	3284.7	3305.4	3331.6	3336.0	3344.7	3358.9	3348.0	3317.4	3285.8	3234.5
7.5°	3110.1	3137.4	3145.0	3163.6	3202.8	3238.9	3283.6	3253.0	3252.0	3220.3	3189.7
10°	2930.0	2913.7	2955.1	2982.4	3047.9	3107.9	3176.7	3173.4	3189.7	3153.7	3101.4
12.5°	2751.1	2738.0	2757.6	2819.8	2911.5	2998.8	3080.6	3050.1	3137.4	3130.8	3018.4
15°	2561.2	2571.0	2599.4	2657.2	2777.3	2882.0	2985.7	2986.8	3064.3	3090.4	2939.9
17.5°	2428.1	2417.1	2453.1	2539.4	2646.3	2771.8	2889.7	2913.7	3032.6	3047.9	2915.8
20°	2328.7	2344.0	2390.9	2434.6	2557.9	2709.6	2842.7	2851.5	3026.1	3067.5	2877.6
22.5°	2304.7	2296.0	2311.3	2382.2	2483.7	2648.5	2817.6	2850.4	3025.0	3061.0	2805.6
25°	2279.6	2308.0	2306.9	2377.9	2452.1	2599.4	2838.4	2874.4	3082.8	3094.8	2815.4
27.5°	2336.4	2333.1	2363.7	2369.1	2460.8	2612.5	2882.0	2909.3	3178.8	3169.0	2823.1
30°	2393.1	2376.8	2395.3	2459.7	2502.3	2687.8	3002.1	2999.9	3303.2	3296.7	2847.1
32.5°	2463.0	2455.3	2467.3	2524.1	2596.1	2788.2	3103.5	3167.9	3429.8	3471.3	2930.0
35°	2476.1	2507.7	2536.1	2612.5	2715.1	2950.8	3294.5	3348.0	3576.1	3705.9	3088.3
37.5°	2559.0	2571.0	2637.6	2772.9	2866.7	3167.9	3415.6	3449.5	3709.2	3856.5	3255.2
40°	2647.4	2661.6	2762.0	2903.8	3032.6	3309.8	3529.1	3540.0	3751.7	3972.2	3364.4
42.5°	2767.4	2780.5	2879.8	3057.7	3230.1	3430.9	3629.5	3641.5	3748.5	4105.3	3537.9
45°	2891.8	2923.5	3040.2	3242.1	3397.1	3572.8	3652.4	3701.5	3779.0	4224.3	3678.6
47.5°	3066.4	3095.9	3191.9	3389.4	3570.6	3697.2	3758.3	3806.3	3852.1	4327.9	3769.2
50°	3252.0	3257.4	3374.2	3553.1	3686.3	3838.0	3955.8	3972.2	3948.2	4448.0	3923.1
52.5°	3388.4	3405.8	3496.4	3671.0	3869.6	4056.2	4217.7	4235.2	4188.3	4492.7	3975.5
55°	3162.5	3152.6	3300.0	3532.4	3992.9	4381.4	4616.0	4629.1	4362.9	4631.3	4146.8
57.5°	2444.4	2491.3	2616.8	2897.3	3547.7	4525.4	4923.8	4876.8	4572.4	4701.1	4255.9
60°	1776.6	1765.7	1849.7	2037.4	2673.6	3900.2	4655.3	4703.3	4401.0	4237.4	3509.5
62.5°	1447.0	1431.7	1438.3	1444.8	1725.3	2588.5	3446.2	3445.1	3389.4	3045.7	2366.9
65°	1156.7	1192.7	1196.0	1245.1	1281.1	1546.3	1997.0	2103.9	1832.2	1502.7	1090.2
67.5°	871.9	858.8	902.5	1077.1	1144.7	1116.4	1090.2	1102.2	783.5	565.3	532.5
70°	514.0	508.5	560.9	750.8	942.8	887.2	821.7	822.8	538.0	395.0	439.8
72.5°	281.5	280.5	291.4	380.8	535.8	556.5	493.2	508.5	320.8	319.7	343.7
75°	157.1	153.9	150.6	168.1	193.2	204.1	208.4	210.6	220.4	246.6	256.4
77.5°	57.8	55.7	55.7	64.4	81.8	102.6	129.9	132.0	156.0	179.0	188.8
80°	19.6	21.8	29.5	40.4	54.6	73.1	88.4	90.6	110.2	125.5	128.8
82.5°	12.0	13.1	19.6	28.4	39.3	51.3	65.5	66.6	81.8	91.7	96.0
85°	5.5	6.5	10.9	17.5	25.1	33.8	34.9	34.9	33.8	34.9	32.7
87.5°	0.0	0.0	2.2	2.2	2.2	3.3	4.4	3.3	5.5	6.5	6.5
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°	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0	3300.0
2.5°	3270.5	3258.5	3221.4	3188.7	3178.8	3135.2	3070.8	3078.4	3031.5	3053.3	3030.4
5°	3225.8	3185.4	3090.4	3050.1	2944.2	2896.2	2863.5	2781.6	2743.4	2735.8	2703.0
7.5°	3111.2	3086.1	2967.1	2858.0	2745.6	2649.6	2526.3	2442.2	2382.2	2365.8	2317.8
10°	3020.6	2964.9	2800.2	2634.3	2473.9	2306.9	2146.5	2021.0	1959.9	1889.0	1865.0
12.5°	2931.1	2847.1	2624.5	2411.7	2204.3	1993.7	1799.5	1646.7	1513.6	1481.9	1471.0
15°	2875.5	2729.2	2467.3	2210.9	1916.2	1641.3	1447.0	1346.6	1264.8	1230.9	1254.9
17.5°	2802.4	2632.1	2316.7	1975.2	1651.1	1397.9	1235.3	1173.1	1143.6	1146.9	1137.1
20°	2710.7	2540.4	2119.2	1761.3	1414.3	1212.4	1119.6	1096.7	1101.1	1108.7	1105.4
22.5°	2645.2	2429.1	1976.3	1543.0	1222.2	1109.8	1071.6	1055.2	1069.4	1076.0	1070.5
25°	2595.0	2334.2	1802.8	1349.9	1110.9	1052.0	1034.5	1033.4	1055.2	1064.0	1058.5
27.5°	2549.2	2245.8	1630.3	1202.6	1036.7	1007.2	1001.8	1014.9	1029.1	1037.8	1045.4
30°	2521.9	2178.2	1468.8	1079.3	999.6	985.4	975.6	987.6	995.2	1004.0	999.6
32.5°	2548.1	2130.1	1312.8	1009.4	969.0	954.9	967.9	960.3	973.4	981.0	969.0
35°	2629.9	2087.6	1201.5	972.3	934.1	939.6	941.8	938.5	943.9	937.4	951.6
37.5°	2710.7	2072.3	1098.9	940.7	917.7	917.7	915.6	909.0	919.9	917.7	924.3
40°	2813.3	2082.1	1011.6	906.8	902.5	900.3	891.6	890.5	886.1	887.2	889.4
42.5°	2902.7	2103.9	961.4	885.0	888.3	892.6	876.3	863.2	868.6	857.7	857.7
45°	2997.7	2123.6	916.7	869.7	866.5	865.4	852.3	844.6	840.3	841.4	851.2
47.5°	3147.2	2152.0	882.8	849.0	851.2	834.8	831.5	821.7	826.1	832.6	833.7
50°	3253.0	2212.0	856.6	825.0	832.6	821.7	802.1	797.7	797.7	808.6	806.4
52.5°	3327.2	2296.0	831.5	798.8	802.1	793.3	786.8	777.0	770.4	785.7	793.3
55°	3554.2	2435.7	825.0	777.0	775.9	767.2	755.2	745.3	742.1	744.2	759.5
57.5°	3532.4	2392.0	804.3	738.8	736.6	724.6	712.6	709.3	708.2	710.4	714.8
60°	2867.8	1766.7	718.0	695.1	691.9	689.7	677.7	664.6	658.0	664.6	659.1
62.5°	1897.7	1182.9	632.9	642.8	644.9	639.5	619.8	606.7	608.9	616.6	604.6
65°	931.9	695.1	574.0	600.2	602.4	587.1	568.5	553.3	545.6	552.2	546.7
67.5°	532.5	531.4	526.0	553.3	552.2	536.9	507.4	494.3	481.2	483.4	480.2
70°	451.8	460.5	471.4	487.8	486.7	469.2	434.3	424.5	405.9	403.8	398.3
72.5°	355.8	371.0	395.0	407.0	397.2	375.4	352.5	336.1	319.7	309.9	313.2
75°	264.1	285.9	299.0	306.6	291.4	279.4	260.8	241.2	221.5	212.8	209.5
77.5°	192.1	198.6	210.6	216.1	206.2	194.2	183.3	163.7	145.1	133.1	129.9
80°	134.2	138.6	147.3	147.3	147.3	141.9	127.7	108.0	96.0	85.1	82.9
82.5°	93.8	98.2	106.9	102.6	101.5	94.9	86.2	70.9	57.8	50.2	48.0
85°	32.7	36.0	43.7	52.4	55.7	54.6	49.1	39.3	30.6	25.1	22.9
87.5°	7.6	7.6	8.7	7.6	7.6	8.7	7.6	7.6	7.6	5.5	4.4
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)