

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: P527370

Luminaire Tested: **GALN-SA2B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527370
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-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 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: 7590 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

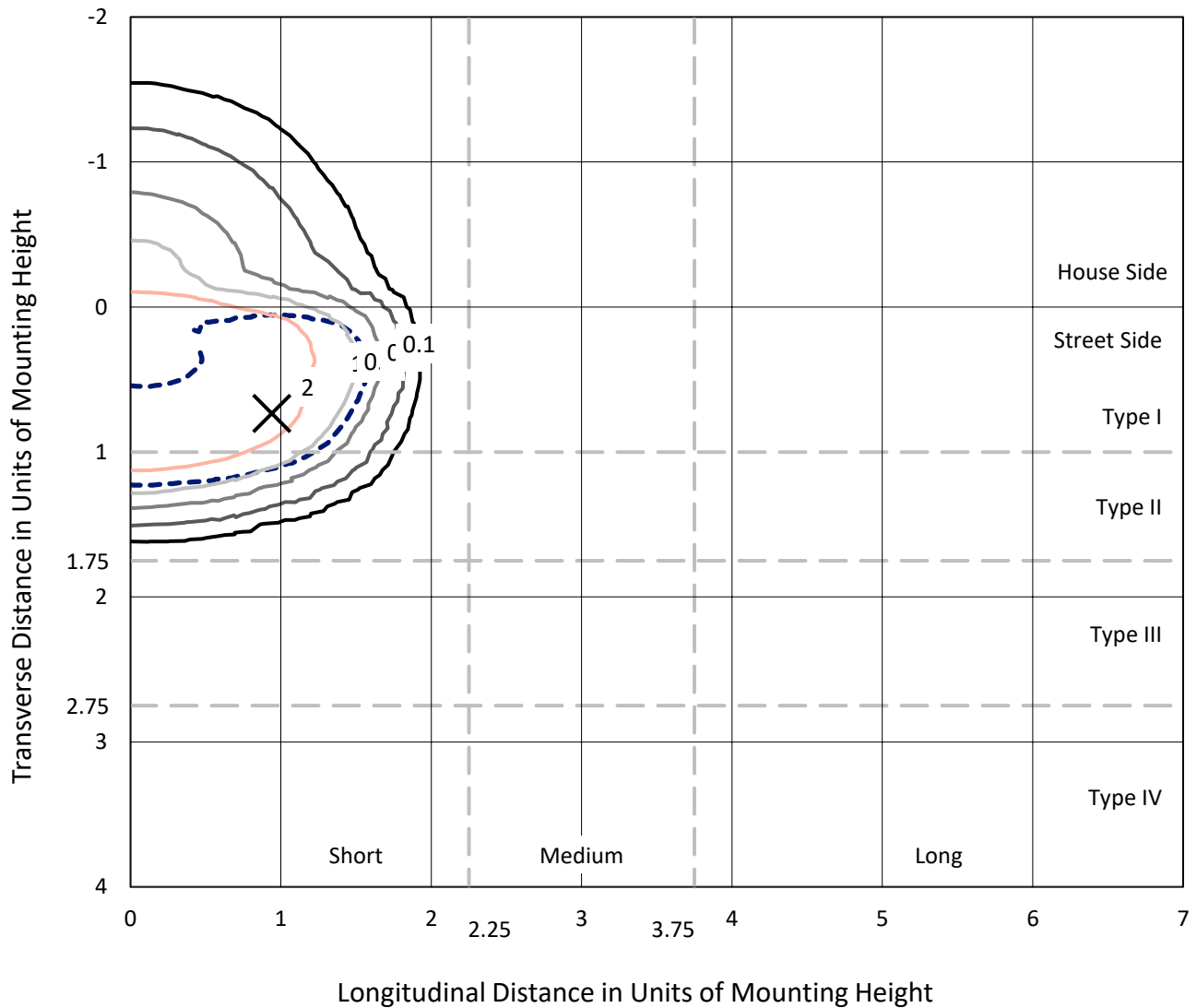
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

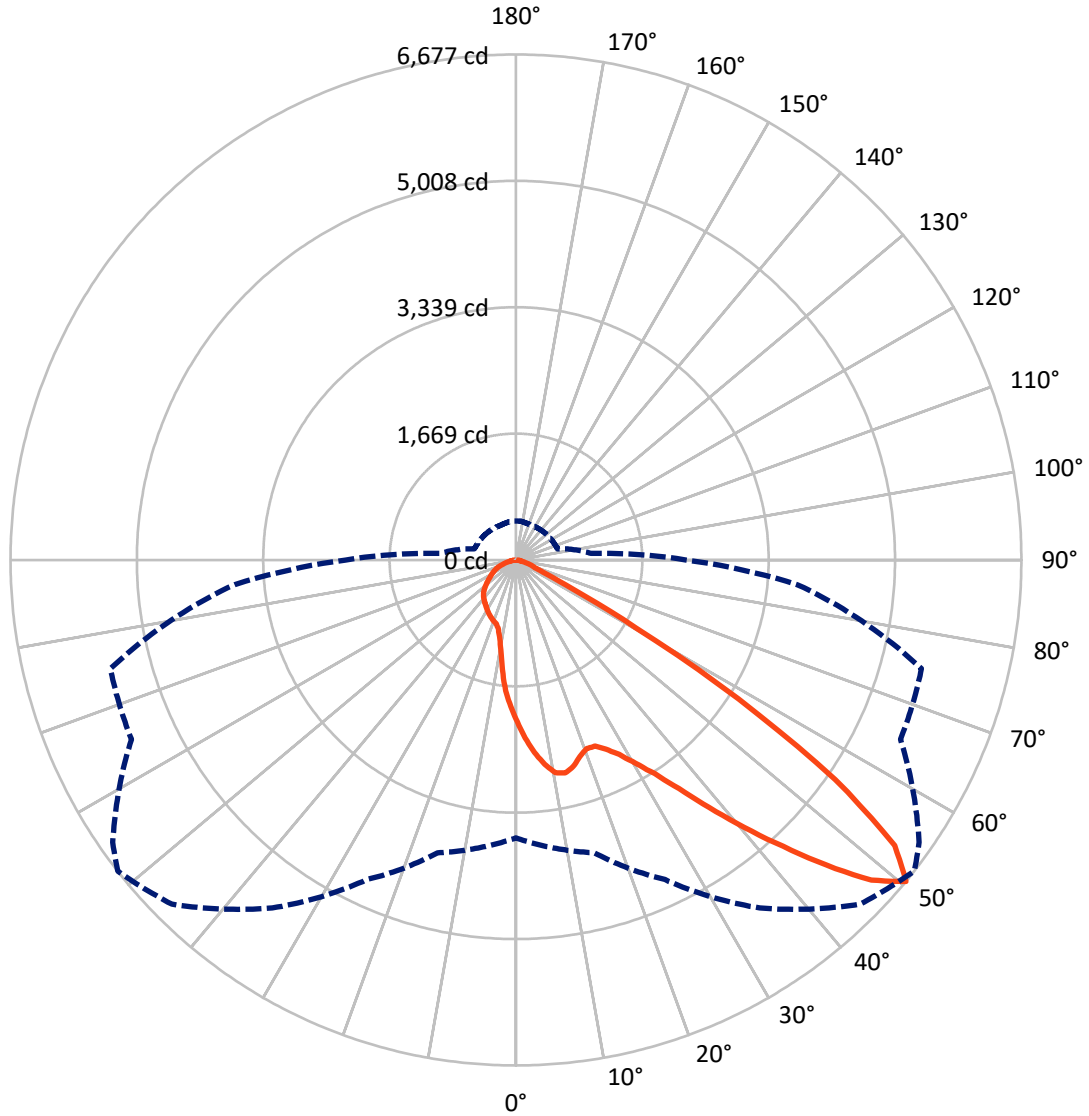
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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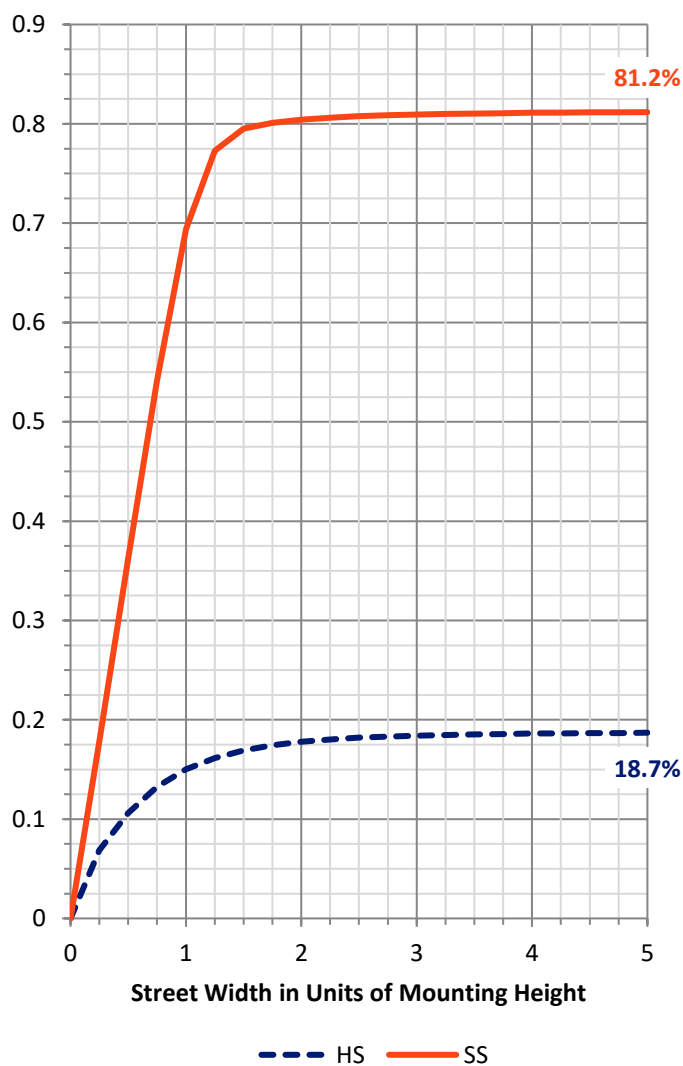
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.7	0.0	1426.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6163.3	0.0	6163.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	7590.0	0.0	7590.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	2.6
10°-20°	528.5	7.0
20°-30°	890.3	11.7
30°-40°	1494.0	19.7
40°-50°	2285.4	30.1
50°-60°	1666.3	22.0
60°-70°	370.8	4.9
70°-80°	133.8	1.8
80°-90°	23.7	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°	7590.0	100.0
0°-180°	7590.0	100.0

Coefficient of Utilization



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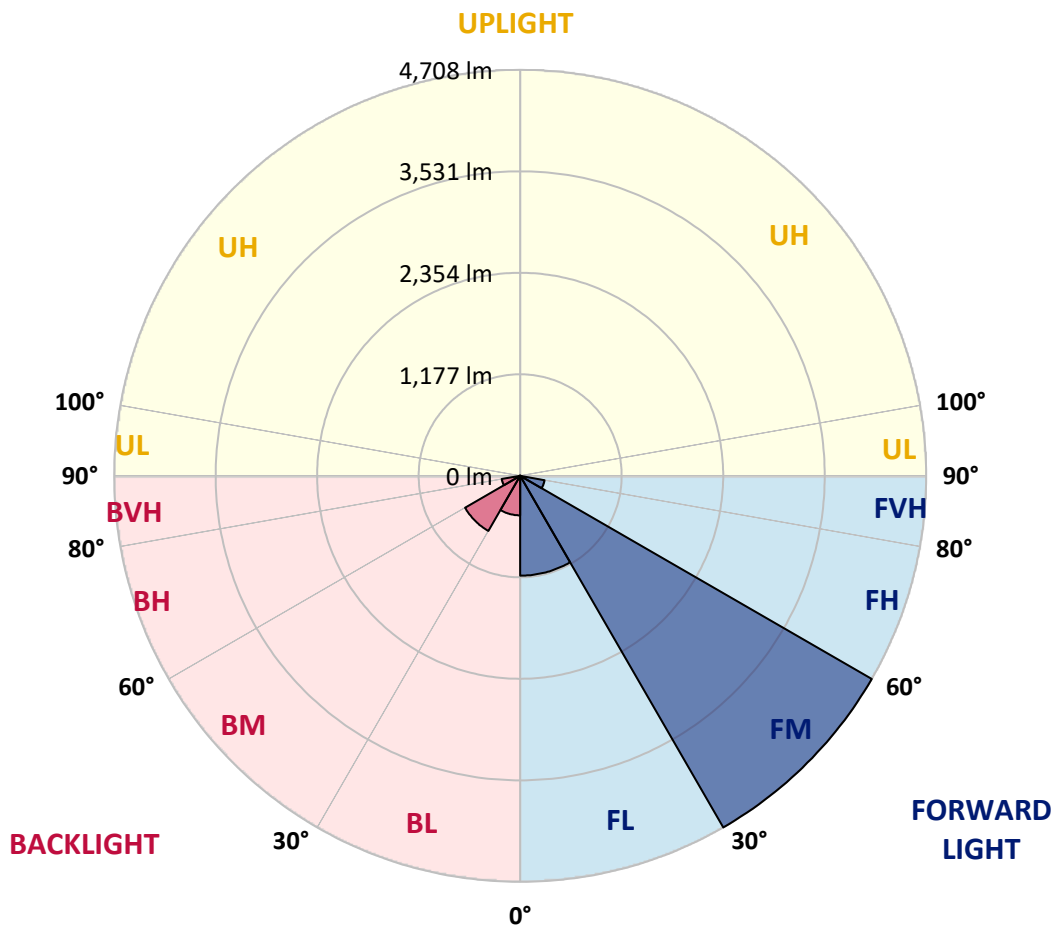
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.7	15.3			
FM (30°-60°)	4707.7	62.0			
FH (60°-80°)	287.2	3.8			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	458.3	6.0	B1/500		
BM (30°-60°)	738.0	9.7	B1/1000		
BH (60°-80°)	217.4	2.9	B1/500		G1/500
BVH (80°-90°)	13.1	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°	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2519.1	2470.6	2476.1	2441.3	2403.8	2392.9	2354.5	2317.9	2290.4	2231.9	2177.9
5°	2753.3	2738.6	2716.7	2689.2	2660.9	2591.4	2552.0	2506.3	2405.7	2315.1	2225.5
7.5°	2787.1	2784.4	2796.3	2796.3	2806.3	2779.8	2724.0	2692.0	2585.0	2437.7	2271.2
10°	2549.3	2557.5	2615.1	2690.1	2794.4	2866.7	2857.5	2849.3	2732.2	2531.0	2325.2
12.5°	2359.9	2341.6	2375.5	2439.5	2595.9	2770.6	2888.6	2889.6	2859.4	2680.1	2364.5
15°	2252.9	2265.7	2274.9	2305.1	2423.1	2625.2	2832.8	2894.1	3026.8	2785.3	2426.7
17.5°	2321.5	2278.5	2276.7	2284.0	2344.4	2496.2	2729.5	2834.7	3118.2	2920.7	2503.5
20°	2411.2	2410.2	2384.6	2375.5	2374.6	2510.0	2661.8	2804.5	3166.7	3096.3	2581.3
22.5°	2568.5	2568.5	2526.4	2506.3	2463.3	2574.0	2670.9	2767.9	3247.2	3217.0	2618.8
25°	2831.9	2788.9	2716.7	2667.3	2642.6	2681.9	2767.9	2854.8	3317.6	3345.1	2696.6
27.5°	3075.2	3007.6	2971.9	2886.8	2853.9	2831.0	2909.7	2997.5	3400.0	3544.5	2738.6
30°	3351.5	3339.6	3275.6	3165.8	3084.4	3042.3	3114.6	3201.5	3550.9	3748.5	2835.6
32.5°	3845.4	3737.5	3650.6	3516.1	3383.5	3293.9	3365.2	3422.8	3801.5	3961.6	2941.7
35°	4378.7	4343.9	4193.9	3951.5	3748.5	3668.0	3710.0	3753.0	4093.3	4287.2	3120.1
37.5°	4902.8	4855.3	4731.8	4527.8	4280.8	4117.1	4147.3	4197.6	4420.8	4726.3	3337.8
40°	5279.7	5221.1	5158.9	5128.8	4883.6	4659.5	4642.1	4654.9	4863.5	5137.9	3579.2
42.5°	5307.1	5379.4	5398.6	5520.2	5462.6	5278.8	5171.7	5174.5	5286.1	5544.9	3823.5
45°	5249.5	5182.7	5324.5	5656.5	5846.8	5932.8	5752.6	5729.7	5547.7	5780.9	3945.1
47.5°	4644.9	4663.2	4902.8	5427.9	5977.6	6361.8	6319.7	6243.8	5687.6	5772.7	3925.9
50°	3671.6	3782.3	4004.6	4658.6	5611.7	6429.5	6677.3	6501.7	5604.4	5545.9	3730.2
52.5°	2445.0	2490.7	2637.1	3481.4	4512.2	5747.1	6265.7	6306.0	5527.6	5248.6	3482.3
55°	1088.5	1084.8	1290.6	1818.4	2831.0	4373.2	5119.6	5364.7	5232.1	4945.8	3240.8
57.5°	461.0	476.6	560.7	785.7	1392.2	2638.9	3468.6	3683.5	4023.8	4061.3	2486.2
60°	311.9	313.7	336.6	393.3	582.7	1239.4	1819.3	2077.3	2320.6	2304.1	1319.0
62.5°	245.1	251.5	268.9	291.8	345.8	562.5	814.1	957.7	973.2	818.7	500.3
65°	209.5	210.4	227.8	247.0	270.8	327.5	392.4	399.7	404.3	389.7	367.7
67.5°	172.9	174.7	188.4	210.4	232.3	250.6	268.9	278.1	299.1	340.3	334.8
70°	137.2	139.9	151.8	170.1	190.3	201.2	224.1	232.3	251.5	283.6	296.4
72.5°	104.3	105.2	115.3	128.1	146.4	157.3	176.5	185.7	198.5	225.9	237.8
75°	75.0	77.7	85.1	91.5	94.2	101.5	119.8	129.9	148.2	160.1	161.0
77.5°	39.3	41.2	43.0	43.0	52.1	65.9	77.7	83.2	96.0	105.2	100.6
80°	15.5	16.5	21.0	28.4	36.6	47.6	55.8	58.5	69.5	75.0	77.7
82.5°	9.1	10.1	13.7	20.1	26.5	33.8	40.2	43.0	50.3	56.7	58.5
85°	4.6	5.5	8.2	12.8	17.4	21.0	20.1	19.2	19.2	18.3	19.2
87.5°	1.8	1.8	2.7	2.7	2.7	3.7	4.6	4.6	4.6	5.5	5.5
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°	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5	2139.5
2.5°	2142.2	2105.7	2071.8	2009.6	1941.9	1922.7	1844.0	1815.7	1795.6	1771.8	1764.5
5°	2153.2	2104.7	1995.9	1870.6	1770.9	1642.8	1558.7	1468.1	1402.2	1385.8	1381.2
7.5°	2176.1	2092.8	1905.3	1716.0	1512.0	1338.2	1205.6	1134.2	1071.1	1067.5	1061.1
10°	2201.7	2057.2	1806.5	1509.3	1248.6	1087.6	1008.0	976.9	961.4	957.7	955.9
12.5°	2222.7	2049.9	1695.9	1308.0	1062.0	965.0	941.2	938.5	944.9	946.7	950.4
15°	2231.9	2020.6	1562.3	1127.8	945.8	910.1	920.2	931.2	935.7	947.6	938.5
17.5°	2249.3	1983.1	1397.7	985.1	880.9	887.3	904.6	917.4	924.8	933.0	921.1
20°	2258.4	1949.2	1243.1	900.1	858.0	869.9	893.7	903.7	912.9	916.5	902.8
22.5°	2250.2	1879.7	1106.8	831.5	836.0	851.6	872.6	883.6	878.1	863.5	855.2
25°	2228.2	1781.8	965.0	787.6	804.9	832.4	848.8	840.6	830.6	822.3	819.6
27.5°	2227.3	1662.0	862.6	747.3	778.4	815.9	810.4	803.1	807.7	801.3	794.0
30°	2231.9	1545.9	778.4	724.4	759.2	777.5	783.9	776.6	782.1	770.2	773.8
32.5°	2208.1	1432.4	723.5	697.9	736.3	735.4	756.5	761.9	749.1	724.4	728.1
35°	2218.2	1341.0	676.9	686.0	710.7	710.7	727.2	720.8	686.9	672.3	676.0
37.5°	2287.7	1251.3	654.0	669.6	686.0	693.3	687.9	660.4	652.2	652.2	654.0
40°	2353.5	1174.5	640.3	665.9	663.2	667.7	627.5	630.2	630.2	631.1	626.6
42.5°	2412.1	1122.3	629.3	644.0	648.5	624.7	600.0	597.3	603.7	602.8	599.1
45°	2433.1	1079.4	613.8	619.3	622.9	583.6	571.7	566.2	573.5	576.3	579.9
47.5°	2352.6	1043.7	596.4	585.4	578.1	552.5	536.9	526.9	536.0	551.6	555.2
50°	2249.3	997.0	568.9	547.9	532.4	521.4	510.4	500.3	506.7	517.7	515.0
52.5°	2096.5	923.9	534.2	512.2	485.7	488.5	478.4	472.9	476.6	476.6	473.8
55°	1878.8	759.2	475.6	460.1	438.1	445.5	447.3	440.0	432.7	439.1	433.6
57.5°	1282.4	536.0	424.4	424.4	402.5	412.5	411.6	394.2	376.9	378.7	375.0
60°	741.8	427.2	391.5	387.8	365.0	373.2	375.0	363.1	336.6	338.4	334.8
62.5°	421.7	365.0	342.1	336.6	332.0	339.4	339.4	323.8	300.9	302.8	299.1
65°	358.6	338.4	305.5	304.6	302.8	304.6	297.3	280.8	260.7	252.5	253.4
67.5°	325.6	312.8	280.8	272.6	267.1	266.2	252.5	236.9	227.8	220.4	219.5
70°	285.4	275.3	251.5	240.6	235.1	222.3	208.6	198.5	185.7	182.0	185.7
72.5°	225.9	225.0	215.9	204.0	192.1	182.0	170.1	156.4	144.5	141.8	135.4
75°	156.4	158.2	160.1	158.2	148.2	135.4	121.7	110.7	96.0	87.8	86.0
77.5°	102.4	105.2	107.9	104.3	97.9	86.0	76.8	63.1	52.1	45.7	44.8
80°	75.0	78.7	80.5	77.7	70.4	61.3	51.2	40.2	32.0	26.5	26.5
82.5°	57.6	61.3	63.1	58.5	51.2	43.9	36.6	28.4	22.0	17.4	16.5
85°	20.1	19.2	22.9	23.8	28.4	26.5	22.0	16.5	12.8	9.1	8.2
87.5°	5.5	5.5	6.4	6.4	5.5	4.6	4.6	4.6	3.7	2.7	2.7
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)