

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: P527194

Luminaire Tested: **GALN-SA2B-722-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527194
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-722-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 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: 7116 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

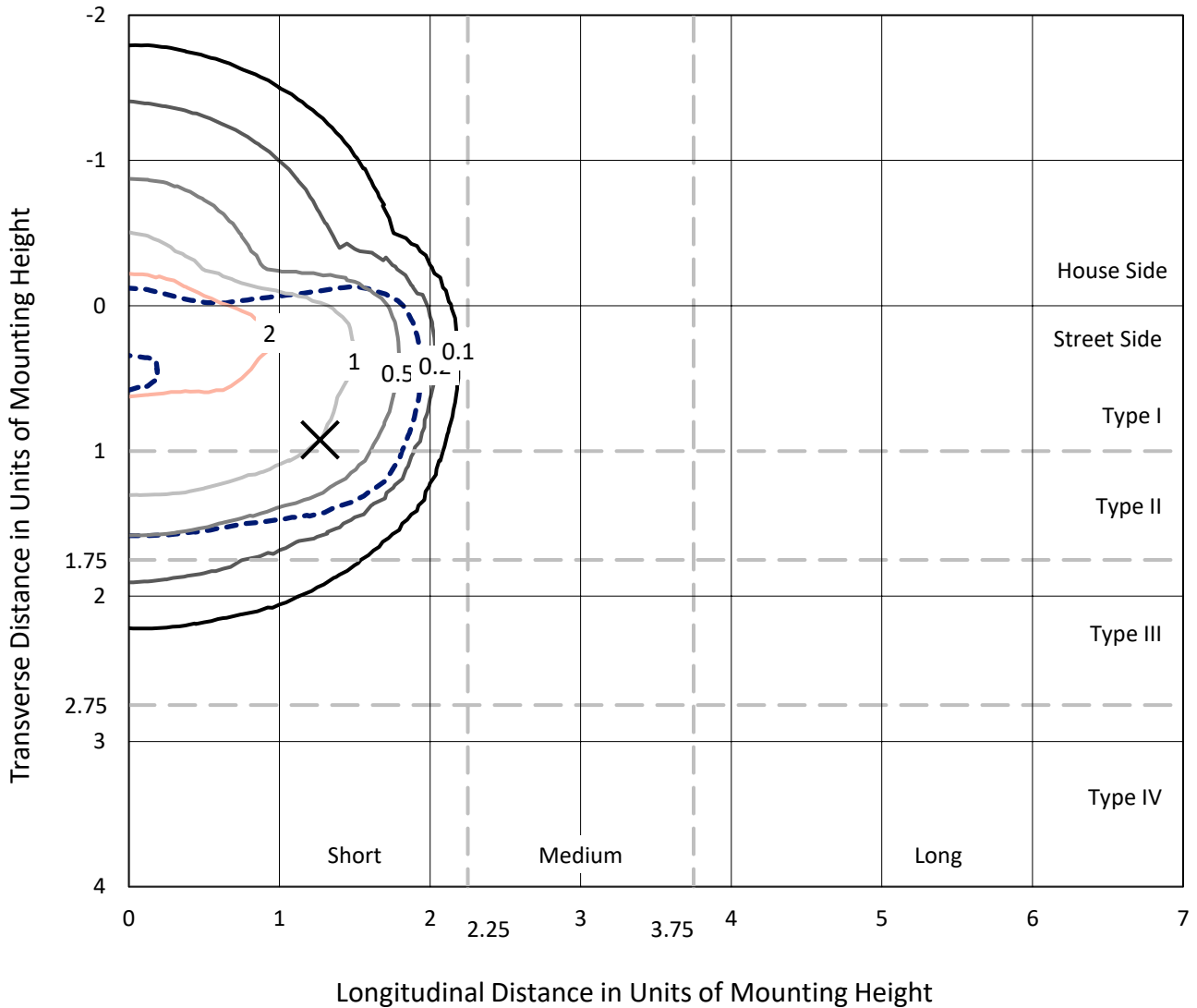
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

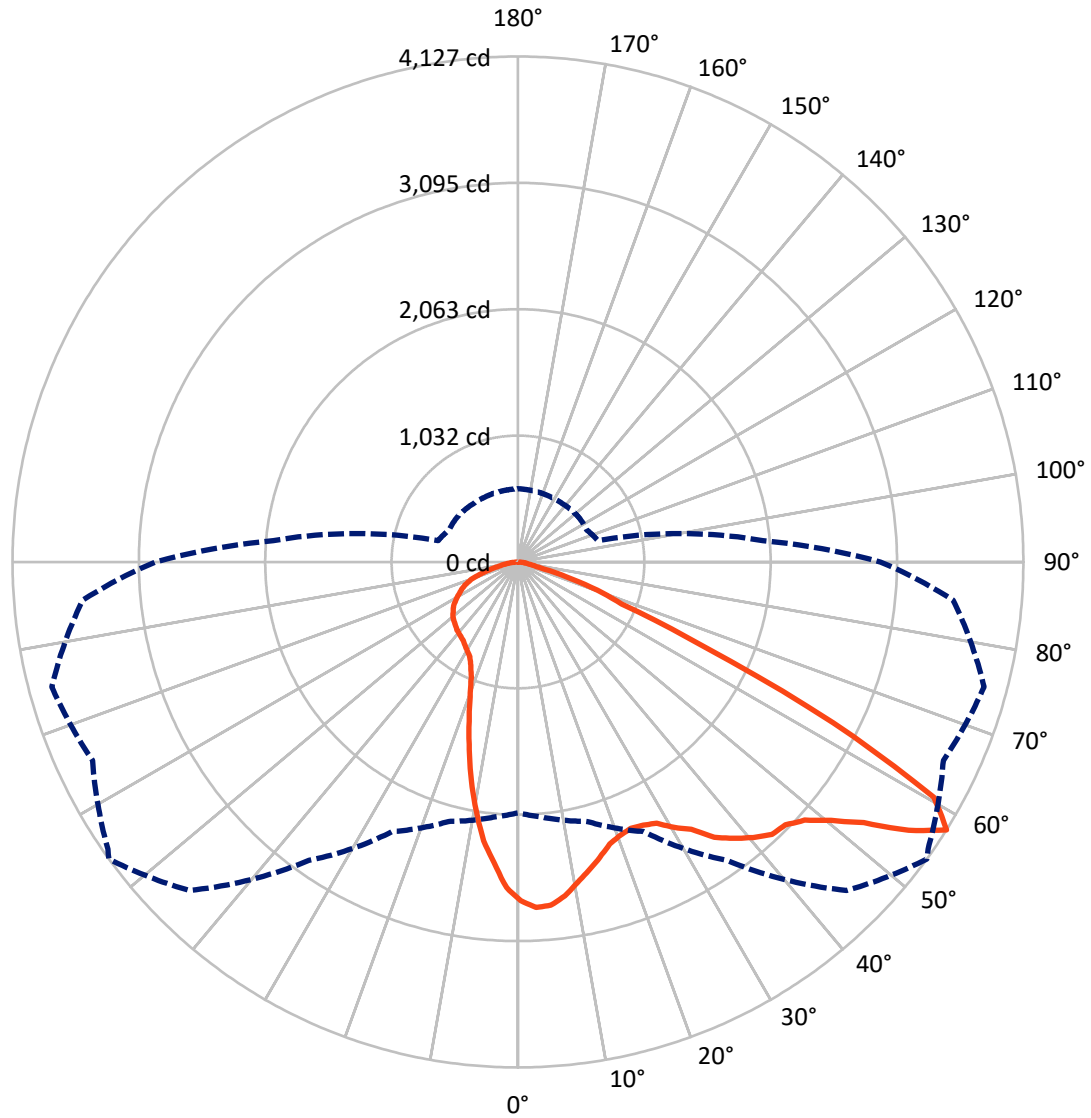
✕ Max cd
 - - - 1/2 Max cd



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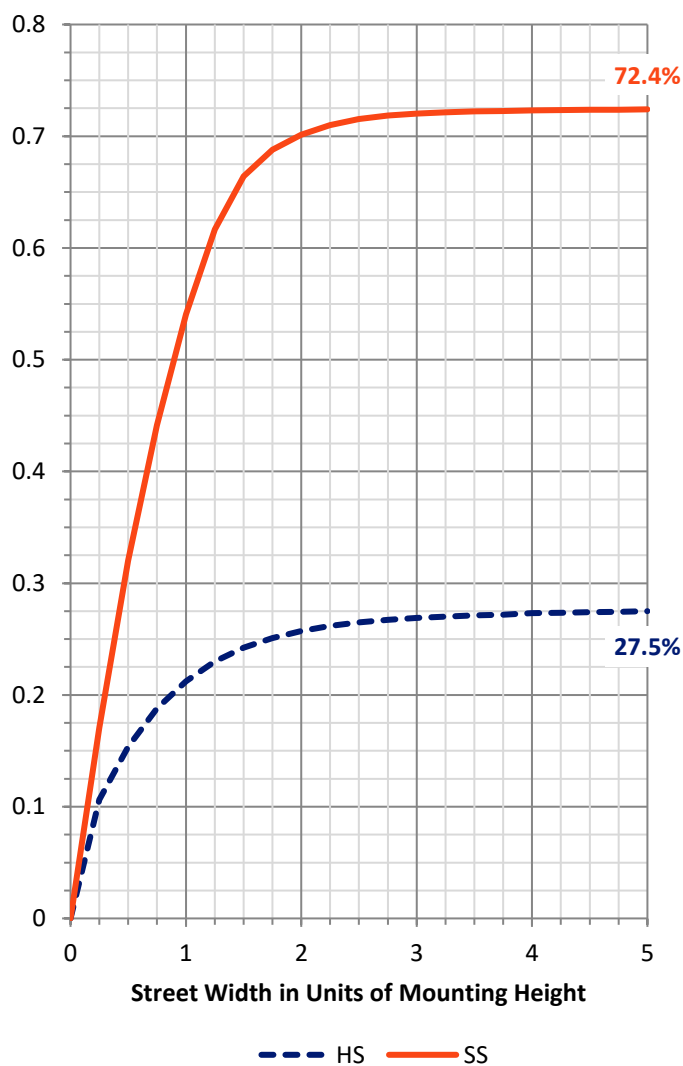
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.7	0.0	1968.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	5147.3	0.0	5147.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	7116.0	0.0	7116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.5	3.4
10°-20°	552.3	7.8
20°-30°	776.0	10.9
30°-40°	1084.8	15.2
40°-50°	1468.6	20.6
50°-60°	1788.9	25.1
60°-70°	931.7	13.1
70°-80°	238.7	3.4
80°-90°	36.4	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°	7116.0	100.0
0°-180°	7116.0	100.0

Coefficient of Utilization



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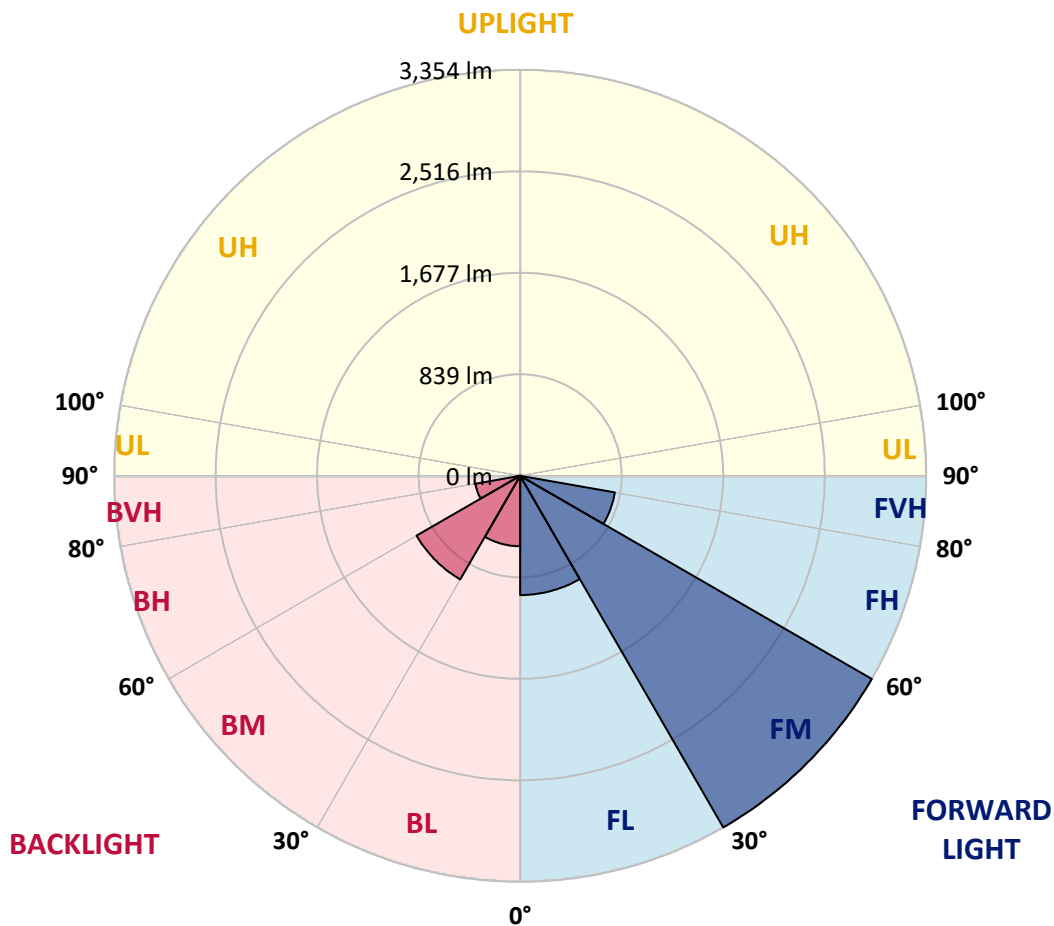
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	985.0	13.8			
FM (30°-60°)	3354.3	47.1			
FH (60°-80°)	794.3	11.2			G1/1800
FVH (80°-90°)	13.8	0.2			G1/100
BL (0°-30°)	581.8	8.2	B2/1000		
BM (30°-60°)	988.1	13.9	B1/1000		
BH (60°-80°)	376.1	5.3	B1/500		G1/500
BVH (80°-90°)	22.7	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°	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	2844.6	2833.6	2835.4	2850.1	2831.8	2824.4	2824.4	2788.8	2791.5	2766.8	2760.4
5°	2778.7	2753.1	2770.5	2792.4	2796.1	2803.4	2815.3	2806.2	2780.5	2754.0	2711.0
7.5°	2606.8	2629.6	2636.0	2651.6	2684.5	2714.7	2752.2	2726.6	2725.7	2699.1	2673.5
10°	2455.8	2442.1	2476.9	2499.7	2554.6	2604.9	2662.6	2659.8	2673.5	2643.3	2599.4
12.5°	2305.8	2294.9	2311.3	2363.5	2440.3	2513.5	2582.1	2556.5	2629.6	2624.1	2529.9
15°	2146.7	2154.9	2178.7	2227.2	2327.8	2415.6	2502.5	2503.4	2568.3	2590.3	2464.1
17.5°	2035.1	2026.0	2056.1	2128.4	2218.0	2323.2	2422.0	2442.1	2541.8	2554.6	2444.0
20°	1951.9	1964.7	2004.0	2040.6	2143.9	2271.1	2382.7	2390.0	2536.3	2571.1	2411.9
22.5°	1931.7	1924.4	1937.2	1996.7	2081.7	2219.9	2361.6	2389.1	2535.4	2565.6	2351.6
25°	1910.7	1934.5	1933.6	1993.0	2055.2	2178.7	2379.0	2409.2	2583.9	2594.0	2359.8
27.5°	1958.3	1955.5	1981.1	1985.7	2062.5	2189.7	2415.6	2438.5	2664.4	2656.1	2366.2
30°	2005.8	1992.1	2007.7	2061.6	2097.3	2252.8	2516.2	2514.4	2768.7	2763.2	2386.3
32.5°	2064.4	2058.0	2068.0	2115.6	2176.0	2336.9	2601.3	2655.2	2874.8	2909.5	2455.8
35°	2075.3	2101.9	2125.7	2189.7	2275.7	2473.2	2761.3	2806.2	2997.3	3106.2	2588.5
37.5°	2144.9	2154.9	2210.7	2324.1	2402.8	2655.2	2862.9	2891.2	3108.9	3232.4	2728.4
40°	2218.9	2230.8	2315.0	2433.9	2541.8	2774.1	2958.0	2967.1	3144.6	3329.3	2819.9
42.5°	2319.6	2330.5	2413.8	2562.9	2707.4	2875.7	3042.1	3052.2	3141.8	3440.9	2965.3
45°	2423.8	2450.4	2548.2	2717.4	2847.3	2994.6	3061.3	3102.5	3167.4	3540.6	3083.3
47.5°	2570.2	2594.9	2675.4	2840.9	2992.7	3098.8	3150.1	3190.3	3228.7	3627.5	3159.2
50°	2725.7	2730.2	2828.1	2978.1	3089.7	3216.8	3315.6	3329.3	3309.2	3728.1	3288.2
52.5°	2840.0	2854.6	2930.5	3076.9	3243.4	3399.8	3535.1	3549.8	3510.4	3765.6	3332.1
55°	2650.7	2642.4	2765.9	2960.7	3346.7	3672.3	3869.0	3880.0	3656.8	3881.8	3475.7
57.5°	2048.8	2088.2	2193.3	2428.4	2973.5	3793.1	4126.9	4087.6	3832.4	3940.3	3567.1
60°	1489.1	1479.9	1550.3	1707.7	2240.9	3269.0	3901.9	3942.2	3688.8	3551.6	2941.5
62.5°	1212.8	1200.0	1205.5	1211.0	1446.1	2169.6	2888.5	2887.6	2840.9	2552.8	1983.9
65°	969.5	999.7	1002.5	1043.6	1073.8	1296.1	1673.8	1763.4	1535.7	1259.5	913.7
67.5°	730.8	719.8	756.4	902.8	959.5	935.7	913.7	923.8	656.7	473.8	446.4
70°	430.8	426.2	470.1	629.3	790.3	743.6	688.7	689.6	450.9	331.1	368.6
72.5°	236.0	235.1	244.2	319.2	449.1	466.5	413.4	426.2	268.9	268.0	288.1
75°	131.7	129.0	126.2	140.9	161.9	171.0	174.7	176.5	184.8	206.7	214.9
77.5°	48.5	46.6	46.6	54.0	68.6	86.0	108.8	110.7	130.8	150.0	158.2
80°	16.5	18.3	24.7	33.8	45.7	61.3	74.1	75.9	92.4	105.2	107.9
82.5°	10.1	11.0	16.5	23.8	32.9	43.0	54.9	55.8	68.6	76.8	80.5
85°	4.6	5.5	9.1	14.6	21.0	28.4	29.3	29.3	28.4	29.3	27.4
87.5°	0.0	0.0	1.8	1.8	1.8	2.7	3.7	2.7	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°	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9	2765.9
2.5°	2741.2	2731.2	2700.1	2672.6	2664.4	2627.8	2573.8	2580.2	2540.9	2559.2	2540.0
5°	2703.7	2669.9	2590.3	2556.5	2467.7	2427.5	2400.0	2331.4	2299.4	2293.0	2265.6
7.5°	2607.7	2586.6	2486.9	2395.5	2301.3	2220.8	2117.4	2047.0	1996.7	1983.0	1942.7
10°	2531.8	2485.1	2347.0	2208.0	2073.5	1933.6	1799.1	1693.9	1642.7	1583.3	1563.1
12.5°	2456.8	2386.3	2199.7	2021.4	1847.6	1671.1	1508.3	1380.2	1268.6	1242.1	1233.0
15°	2410.1	2287.5	2068.0	1853.1	1606.1	1375.6	1212.8	1128.7	1060.1	1031.7	1051.8
17.5°	2348.8	2206.1	1941.8	1655.5	1383.9	1171.7	1035.4	983.3	958.6	961.3	953.1
20°	2272.0	2129.3	1776.3	1476.2	1185.4	1016.2	938.4	919.2	922.9	929.3	926.5
22.5°	2217.1	2036.0	1656.4	1293.3	1024.4	930.2	898.2	884.5	896.4	901.8	897.3
25°	2175.0	1956.4	1511.0	1131.4	931.1	881.7	867.1	866.2	884.5	891.8	887.2
27.5°	2136.6	1882.4	1366.5	1007.9	868.9	844.2	839.7	850.6	862.5	869.8	876.2
30°	2113.8	1825.6	1231.1	904.6	837.8	825.9	817.7	827.8	834.2	841.5	837.8
32.5°	2135.7	1785.4	1100.3	846.1	812.2	800.3	811.3	804.9	815.9	822.3	812.2
35°	2204.3	1749.7	1007.0	815.0	782.9	787.5	789.3	786.6	791.2	785.7	797.6
37.5°	2272.0	1736.9	921.1	788.4	769.2	769.2	767.4	761.9	771.1	769.2	774.7
40°	2358.0	1745.2	847.9	760.1	756.4	754.6	747.3	746.4	742.7	743.6	745.4
42.5°	2433.0	1763.4	805.8	741.8	744.5	748.2	734.5	723.5	728.1	718.9	718.9
45°	2512.5	1779.9	768.3	729.0	726.2	725.3	714.3	707.9	704.3	705.2	713.4
47.5°	2637.9	1803.7	740.0	711.6	713.4	699.7	697.0	688.7	692.4	697.9	698.8
50°	2726.6	1854.0	718.0	691.5	697.9	688.7	672.3	668.6	668.6	677.8	675.9
52.5°	2788.8	1924.4	697.0	669.5	672.3	665.0	659.5	651.2	645.7	658.5	665.0
55°	2979.0	2041.5	691.5	651.2	650.3	643.0	632.9	624.7	622.0	623.8	636.6
57.5°	2960.7	2004.9	674.1	619.2	617.4	607.3	597.3	594.5	593.6	595.4	599.1
60°	2403.7	1480.8	601.8	582.6	579.9	578.1	568.0	557.0	551.5	557.0	552.4
62.5°	1590.6	991.5	530.5	538.7	540.6	536.0	519.5	508.5	510.4	516.8	506.7
65°	781.1	582.6	481.1	503.1	504.9	492.1	476.5	463.7	457.3	462.8	458.2
67.5°	446.4	445.4	440.9	463.7	462.8	450.0	425.3	414.3	403.4	405.2	402.4
70°	378.7	386.0	395.1	408.8	407.9	393.3	364.0	355.8	340.3	338.4	333.8
72.5°	298.2	311.0	331.1	341.2	332.9	314.6	295.4	281.7	268.0	259.8	262.5
75°	221.3	239.6	250.6	257.0	244.2	234.2	218.6	202.1	185.7	178.4	175.6
77.5°	161.0	166.5	176.5	181.1	172.9	162.8	153.7	137.2	121.6	111.6	108.8
80°	112.5	116.2	123.5	123.5	123.5	118.9	107.0	90.6	80.5	71.3	69.5
82.5°	78.7	82.3	89.6	86.0	85.1	79.6	72.3	59.5	48.5	42.1	40.2
85°	27.4	30.2	36.6	43.9	46.6	45.7	41.2	32.9	25.6	21.0	19.2
87.5°	6.4	6.4	7.3	6.4	6.4	7.3	6.4	6.4	6.4	4.6	3.7
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)