

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: P527114

Luminaire Tested: **GALN-SA2A-760-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527114  
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-SA2A-760-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5700K, 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: 7795.1 lumens  
Efficiency: N/A  
Efficacy: 123.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

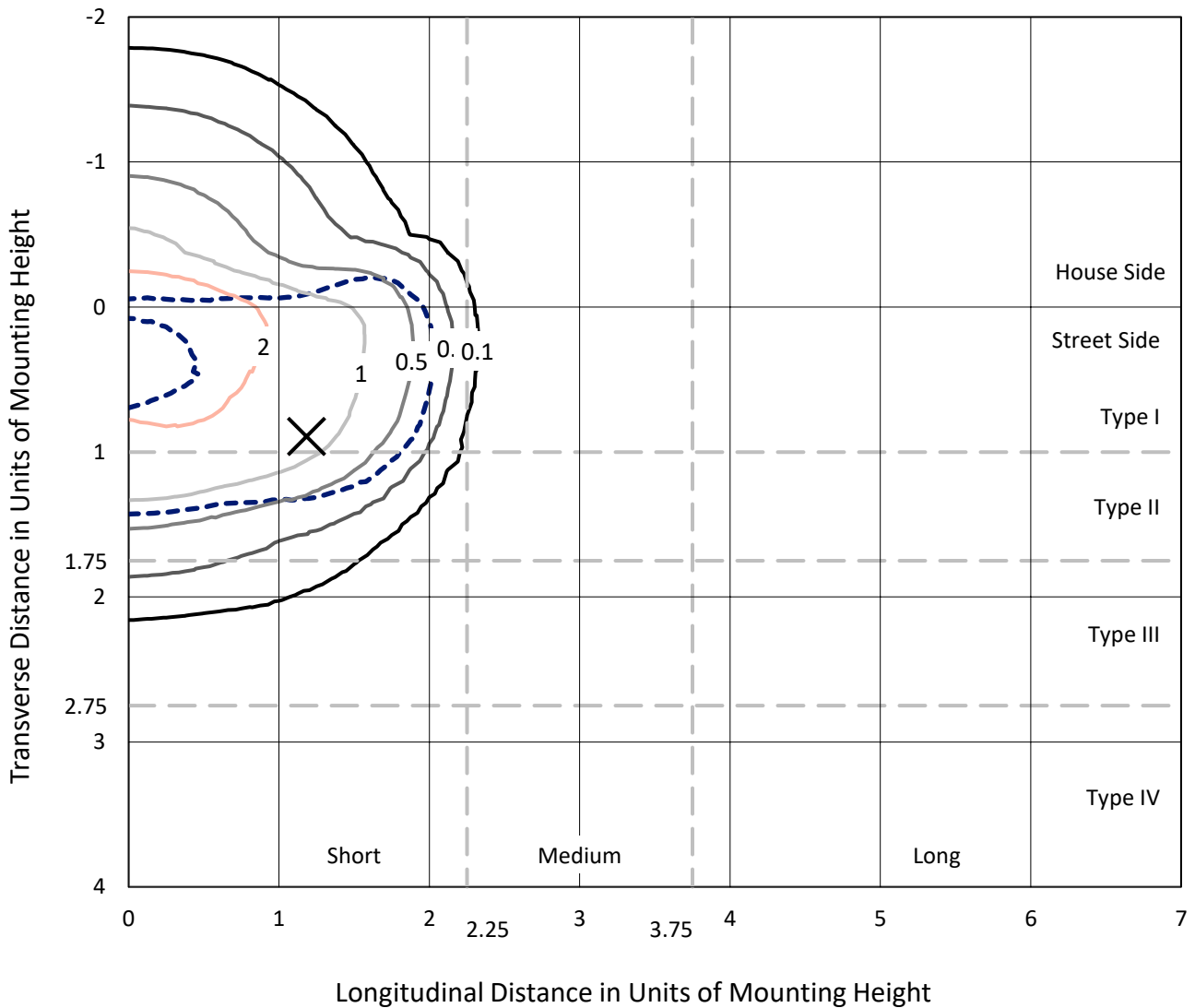
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

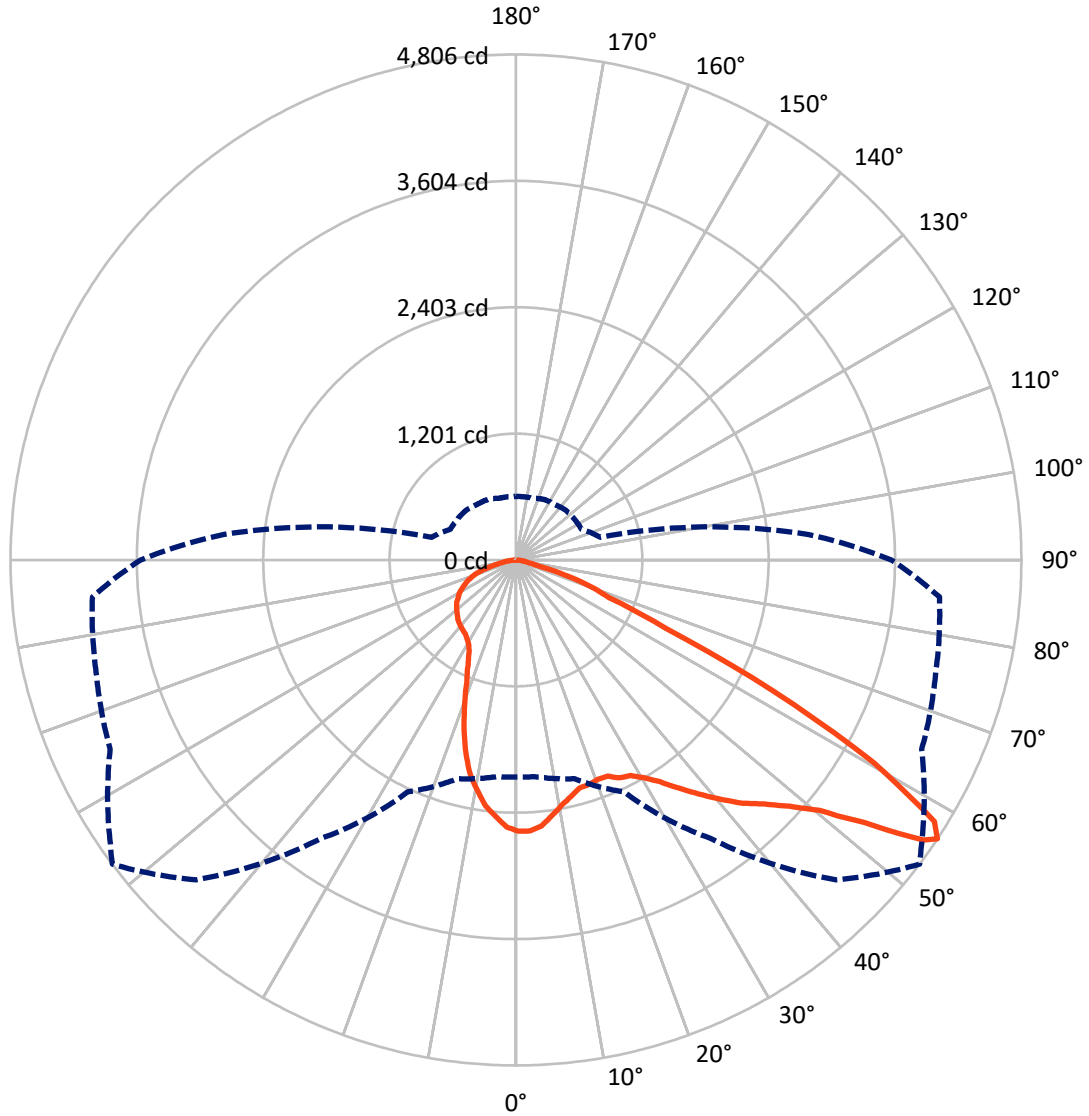
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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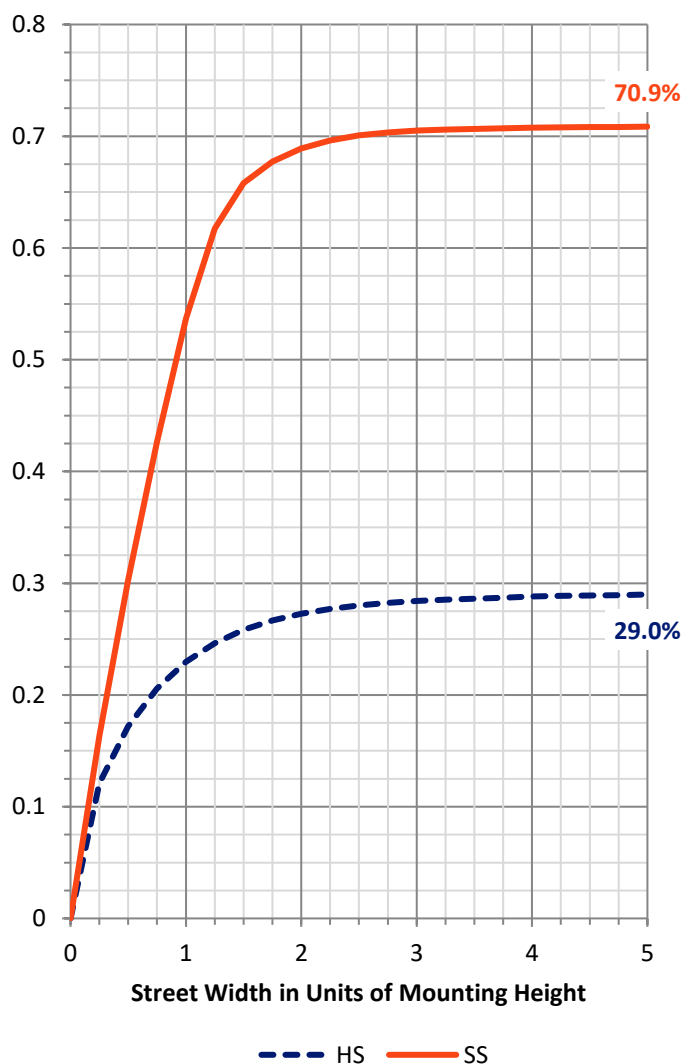
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2274.8	0.0	2274.8
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	5520.3	0.0	5520.3
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	7795.1	0.0	7795.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.3	2.9
10°-20°	570.2	7.3
20°-30°	840.8	10.8
30°-40°	1201.4	15.4
40°-50°	1653.5	21.2
50°-60°	1954.0	25.1
60°-70°	1041.4	13.4
70°-80°	264.2	3.4
80°-90°	41.2	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°	7795.1	100.0
0°-180°	7795.1	100.0

**Coefficient of Utilization**



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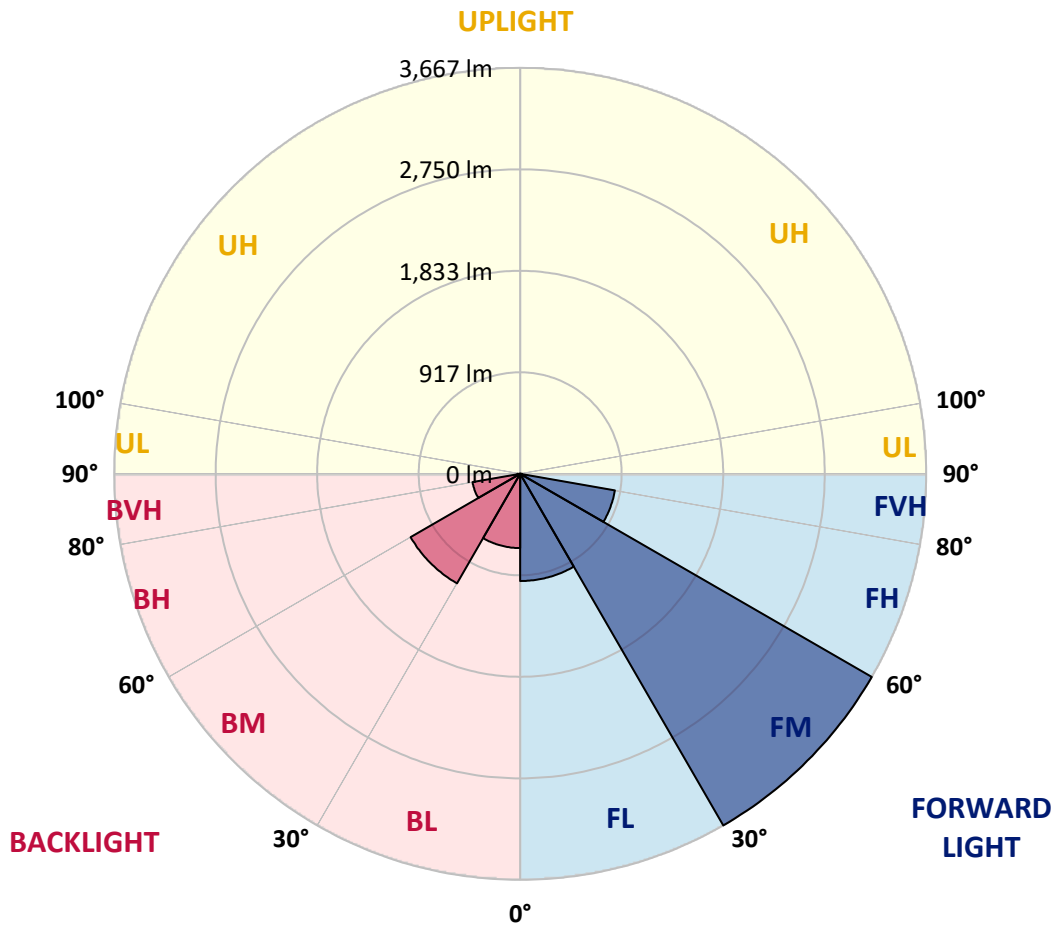
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.4	12.4			
FM (30°-60°)	3666.6	47.0			
FH (60°-80°)	868.7	11.1			G1/1800
FVH (80°-90°)	16.6	0.2			G1/100
BL (0°-30°)	670.9	8.6	B2/1000		
BM (30°-60°)	1142.3	14.7	B2/2500		
BH (60°-80°)	436.9	5.6	B1/500		G1/500
BVH (80°-90°)	24.6	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°	53°	55°	65°	75°	85°
0°	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2546.9	2524.9	2537.9	2532.9	2573.9	2585.9	2579.9	2584.9	2607.9	2596.9	2573.9
5°	2379.9	2410.9	2416.9	2431.9	2455.9	2502.9	2539.9	2549.9	2560.9	2611.9	2606.9
7.5°	2227.9	2248.9	2237.9	2281.9	2333.9	2409.9	2454.9	2462.9	2563.9	2591.9	2612.9
10°	2131.9	2110.9	2160.9	2172.9	2231.9	2318.9	2372.9	2405.9	2497.9	2608.9	2621.9
12.5°	2042.9	2035.9	2065.9	2099.9	2165.9	2255.9	2310.9	2323.9	2465.9	2582.9	2643.9
15°	1976.9	1968.9	1998.9	2023.9	2100.9	2180.9	2250.9	2287.9	2430.9	2567.9	2624.9
17.5°	1924.9	1923.9	1940.9	1985.9	2064.9	2131.9	2244.9	2246.9	2412.9	2590.9	2640.9
20°	1921.9	1920.9	1923.9	1973.9	2045.9	2127.9	2225.9	2243.9	2412.9	2574.9	2641.9
22.5°	1946.9	1930.9	1948.9	1980.9	2032.9	2134.9	2232.9	2272.9	2470.9	2653.9	2686.9
25°	1986.9	1990.9	2000.9	2011.9	2041.9	2150.9	2294.9	2327.9	2538.9	2721.9	2748.9
27.5°	2059.9	2057.9	2061.9	2067.9	2093.9	2165.9	2319.9	2404.9	2680.9	2842.9	2815.9
30°	2166.9	2159.9	2175.9	2196.9	2172.9	2213.9	2402.9	2466.9	2812.9	2964.9	2890.9
32.5°	2263.9	2289.9	2319.9	2328.9	2299.9	2307.9	2512.9	2577.9	2922.9	3114.9	2982.9
35°	2384.9	2405.9	2445.9	2473.9	2468.9	2444.9	2662.9	2748.9	3081.9	3224.9	3079.9
37.5°	2502.9	2527.9	2593.9	2676.9	2630.9	2619.9	2822.9	2893.9	3130.9	3283.9	3150.9
40°	2692.9	2691.9	2805.9	2848.9	2889.9	2870.9	2988.9	3012.9	3156.9	3270.9	3152.9
42.5°	2915.9	2901.9	3017.9	3084.9	3137.9	3139.9	3161.9	3153.9	3168.9	3204.9	3131.9
45°	3127.9	3157.9	3274.9	3394.9	3447.9	3453.9	3307.9	3292.9	3189.9	3185.9	3091.9
47.5°	3386.9	3393.9	3489.9	3647.8	3770.8	3728.8	3496.9	3463.9	3281.9	3312.9	3158.9
50°	3401.9	3453.9	3539.9	3725.8	4103.8	4092.8	3741.8	3679.8	3429.9	3492.9	3345.9
52.5°	3087.9	3075.9	3177.9	3481.9	4078.8	4454.8	4147.8	3999.8	3747.8	3699.8	3648.8
55°	2352.9	2380.9	2470.9	2777.9	3541.9	4459.8	4700.8	4579.8	4087.8	4005.8	3946.8
56°	2063.9	2067.9	2152.9	2432.9	3231.9	4300.8	4805.8	4707.8	4256.8	4131.8	4041.8
57.5°	1710.9	1687.9	1731.9	1884.9	2727.9	3964.8	4690.8	4786.8	4454.8	4267.8	4142.8
60°	1346.9	1341.9	1323.9	1351.9	1723.9	2986.9	3904.8	4120.8	4434.8	4139.8	3967.8
62.5°	1100.0	1075.0	1111.0	1151.0	1198.0	1852.9	2743.9	2870.9	3520.9	3304.9	2980.9
65°	853.0	841.0	886.0	1016.0	1044.0	1177.0	1562.9	1660.9	2078.9	2041.9	1797.9
67.5°	587.0	589.0	628.0	826.0	968.0	956.0	957.0	1008.0	1085.0	806.0	702.0
70°	372.0	371.0	392.0	532.0	779.0	787.0	747.0	732.0	694.0	420.0	445.0
72.5°	239.0	232.0	243.0	294.0	403.0	466.0	480.0	489.0	402.0	330.0	358.0
75°	135.0	128.0	124.0	137.0	159.0	184.0	202.0	208.0	233.0	250.0	265.0
77.5°	41.0	37.0	45.0	60.0	79.0	106.0	129.0	133.0	157.0	177.0	192.0
80°	18.0	20.0	28.0	40.0	56.0	75.0	91.0	97.0	113.0	128.0	132.0
82.5°	11.0	12.0	19.0	27.0	39.0	53.0	65.0	67.0	83.0	95.0	98.0
85°	4.0	5.0	10.0	16.0	25.0	34.0	34.0	37.0	34.0	34.0	37.0
87.5°	0.0	0.0	1.0	2.0	2.0	3.0	4.0	4.0	5.0	6.0	7.0
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°	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9	2578.9
2.5°	2585.9	2580.9	2572.9	2543.9	2540.9	2531.9	2481.9	2473.9	2481.9	2457.9	2459.9
5°	2580.9	2595.9	2535.9	2506.9	2452.9	2413.9	2368.9	2345.9	2304.9	2278.9	2307.9
7.5°	2602.9	2596.9	2521.9	2458.9	2377.9	2278.9	2199.9	2154.9	2082.9	2062.9	2077.9
10°	2594.9	2562.9	2474.9	2391.9	2238.9	2151.9	2023.9	1899.9	1831.9	1796.9	1791.9
12.5°	2583.9	2574.9	2427.9	2284.9	2123.9	1940.9	1760.9	1643.9	1532.9	1484.9	1491.9
15°	2596.9	2520.9	2339.9	2158.9	1944.9	1704.9	1510.9	1359.9	1282.9	1251.9	1251.9
17.5°	2590.9	2494.9	2297.9	2017.9	1746.9	1462.9	1249.9	1159.0	1127.0	1127.0	1136.0
20°	2593.9	2511.9	2212.9	1876.9	1512.9	1231.9	1077.0	1044.0	1058.0	1063.0	1068.0
22.5°	2610.9	2455.9	2129.9	1721.9	1295.9	1054.0	978.0	979.0	1004.0	1031.0	1026.0
25°	2631.9	2433.9	2028.9	1567.9	1130.0	967.0	943.0	940.0	959.0	973.0	975.0
27.5°	2613.9	2395.9	1925.9	1375.9	994.0	909.0	904.0	906.0	912.0	940.0	931.0
30°	2672.9	2406.9	1796.9	1214.9	919.0	890.0	884.0	881.0	890.0	898.0	891.0
32.5°	2745.9	2367.9	1700.9	1060.0	882.0	876.0	864.0	860.0	865.0	857.0	861.0
35°	2777.9	2360.9	1575.9	949.0	853.0	848.0	841.0	840.0	841.0	834.0	828.0
37.5°	2795.9	2393.9	1432.9	898.0	835.0	840.0	824.0	822.0	804.0	808.0	811.0
40°	2826.9	2342.9	1316.9	849.0	824.0	814.0	800.0	797.0	785.0	778.0	785.0
42.5°	2781.9	2327.9	1203.0	828.0	808.0	797.0	787.0	770.0	766.0	760.0	756.0
45°	2745.9	2241.9	1101.0	802.0	789.0	783.0	764.0	746.0	731.0	737.0	728.0
47.5°	2772.9	2211.9	1000.0	780.0	763.0	756.0	737.0	723.0	708.0	701.0	699.0
50°	2880.9	2267.9	915.0	764.0	741.0	737.0	712.0	696.0	682.0	677.0	679.0
52.5°	3138.9	2420.9	857.0	731.0	720.0	702.0	688.0	668.0	659.0	643.0	653.0
55°	3465.9	2669.9	842.0	700.0	694.0	678.0	659.0	644.0	627.0	614.0	611.0
56°	3570.9	2788.9	830.0	688.0	678.0	669.0	644.0	635.0	608.0	605.0	603.0
57.5°	3655.8	2893.9	832.0	665.0	655.0	647.0	632.0	610.0	592.0	581.0	586.0
60°	3463.9	2708.9	794.0	630.0	628.0	613.0	592.0	582.0	560.0	547.0	544.0
62.5°	2574.9	1838.9	644.0	585.0	584.0	568.0	544.0	533.0	529.0	511.0	511.0
65°	1482.9	1153.0	557.0	548.0	540.0	524.0	500.0	491.0	481.0	475.0	470.0
67.5°	633.0	598.0	506.0	505.0	496.0	476.0	452.0	438.0	425.0	413.0	419.0
70°	459.0	466.0	457.0	452.0	441.0	416.0	395.0	378.0	358.0	350.0	356.0
72.5°	364.0	379.0	392.0	393.0	380.0	351.0	328.0	305.0	283.0	272.0	277.0
75°	276.0	286.0	299.0	302.0	283.0	263.0	241.0	217.0	200.0	187.0	189.0
77.5°	199.0	197.0	209.0	207.0	198.0	184.0	164.0	142.0	123.0	111.0	112.0
80°	136.0	139.0	146.0	145.0	134.0	125.0	110.0	92.0	78.0	68.0	66.0
82.5°	95.0	100.0	106.0	101.0	92.0	83.0	72.0	59.0	48.0	40.0	38.0
85°	34.0	39.0	45.0	48.0	51.0	49.0	41.0	33.0	24.0	20.0	19.0
87.5°	7.0	8.0	9.0	9.0	9.0	8.0	7.0	7.0	6.0	3.0	3.0
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)