

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: P323656

Luminaire Tested: **GLEON-SA2D-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2D-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9970 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

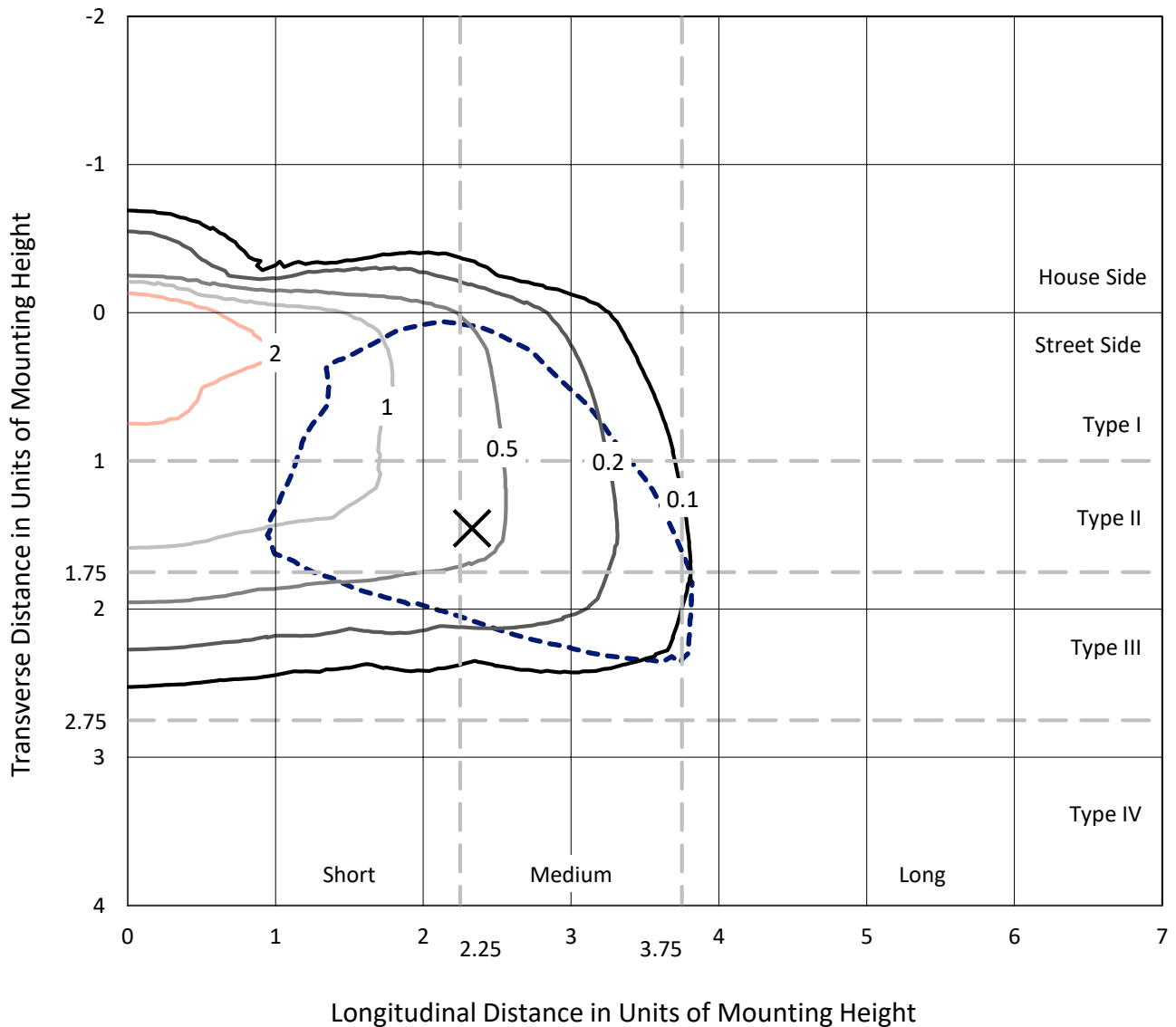
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

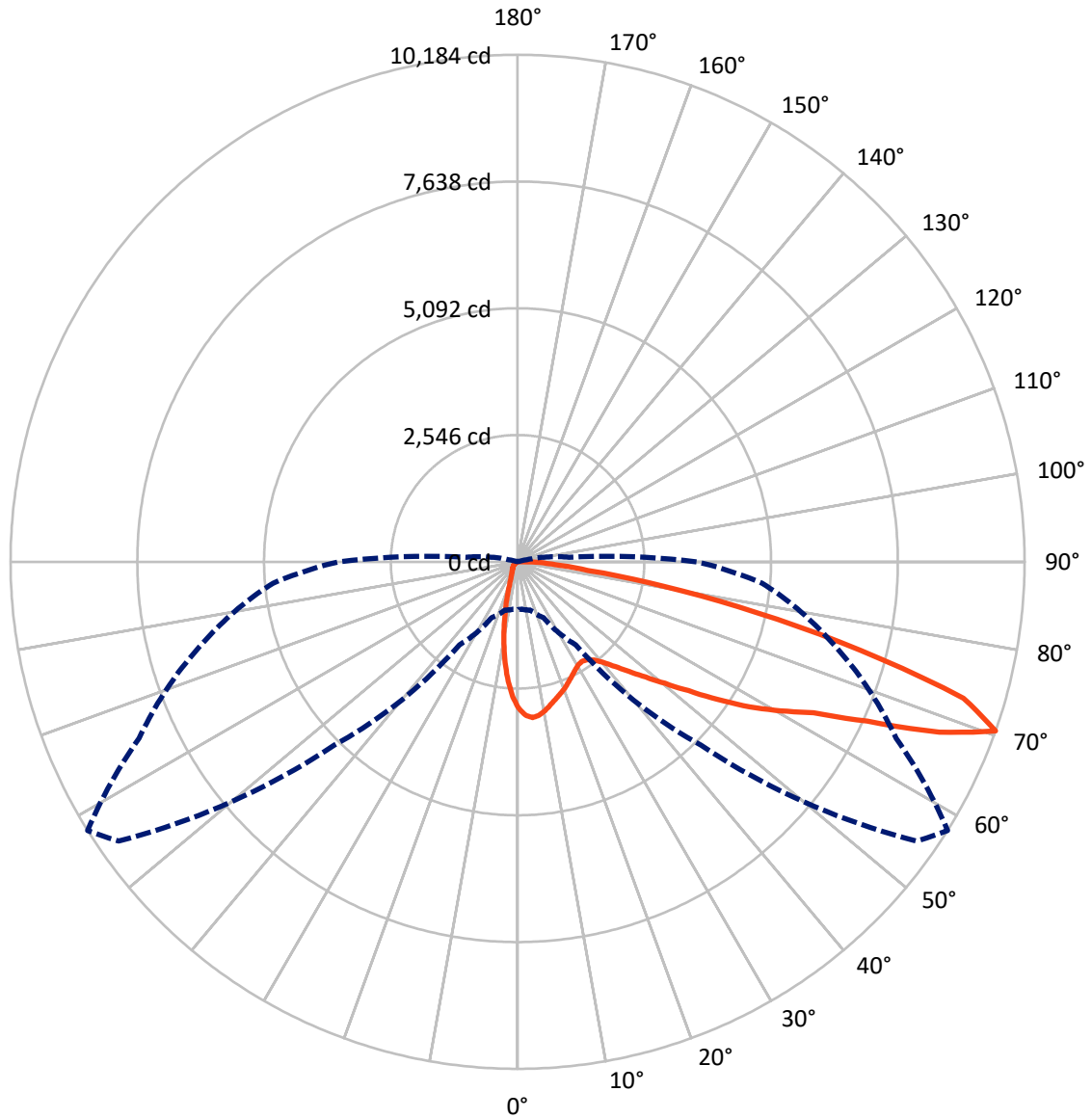
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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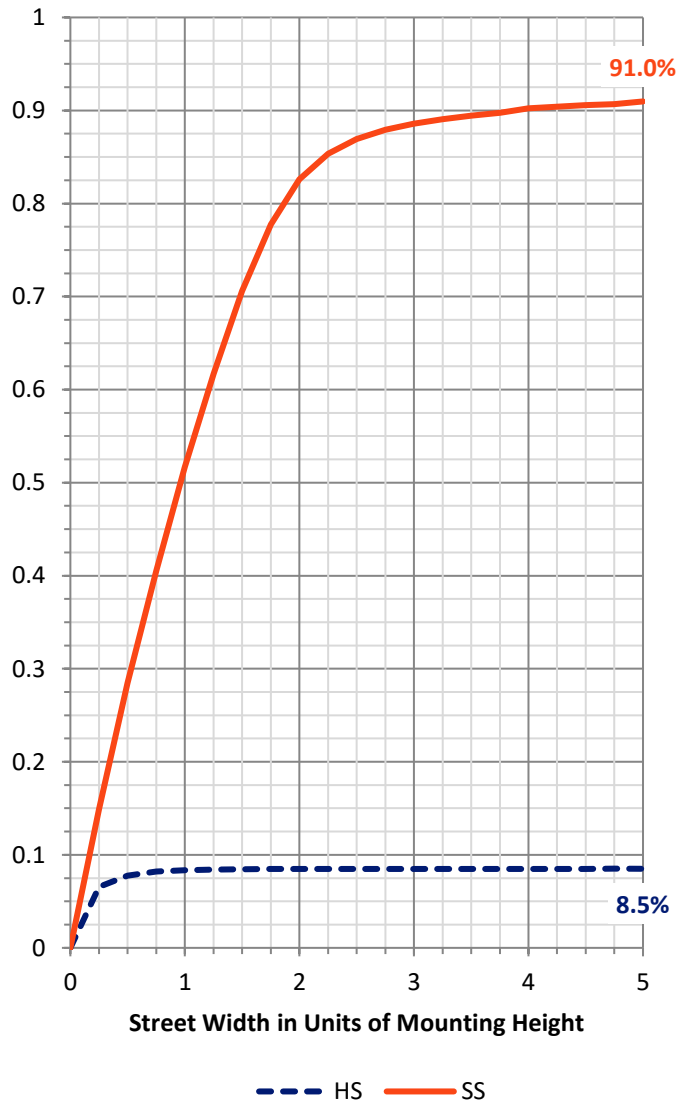
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	853.2	0.0	853.2
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	9116.8	0.0	9116.8
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	9970.0	0.0	9970.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.8	2.4
10°-20°	505.5	5.1
20°-30°	664.5	6.7
30°-40°	880.0	8.8
40°-50°	1315.4	13.2
50°-60°	2107.2	21.1
60°-70°	2656.1	26.6
70°-80°	1432.7	14.4
80°-90°	167.7	1.7
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°	9970.0	100.0
0°-180°	9970.0	100.0

**Coefficient of Utilization**

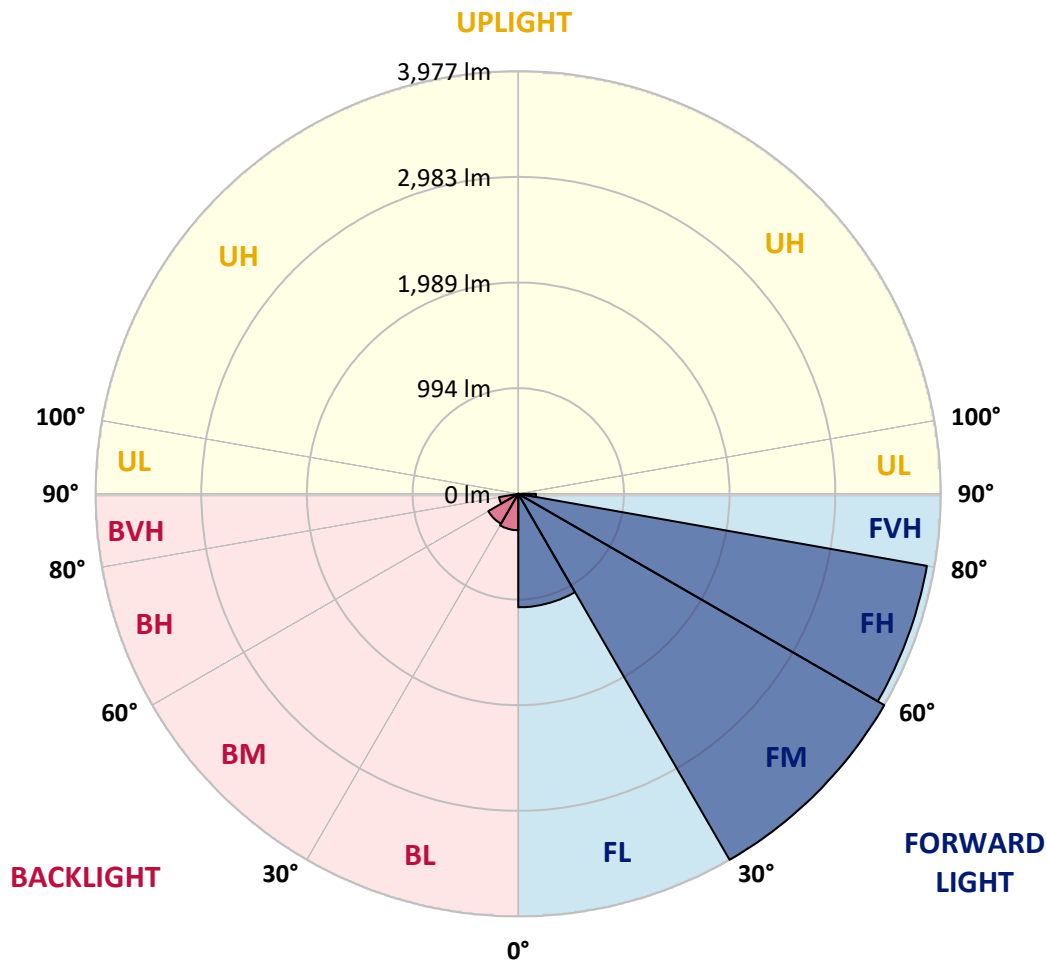


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.0	10.7			
FM (30°-60°)	3977.2	39.9			
FH (60°-80°)	3905.4	39.2			G2/5000
FVH (80°-90°)	166.3	1.7			G2/225
BL (0°-30°)	342.8	3.4	B1/500		
BM (30°-60°)	325.5	3.3	B1/1000		
BH (60°-80°)	183.5	1.8	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1
2.5°	3189.3	3181.4	3178.5	3173.5	3154.4	3135.8	3098.9	3088.5	3065.3	3010.2	2951.7
5°	3191.8	3191.3	3200.1	3198.0	3191.3	3182.6	3156.1	3142.4	3103.0	3024.3	2917.3
7.5°	3038.0	3045.8	3065.3	3081.1	3099.3	3122.9	3126.3	3113.0	3080.7	2995.7	2853.9
10°	2831.5	2843.9	2871.3	2902.4	2950.1	2997.3	3039.6	3038.0	3026.8	2943.0	2777.6
12.5°	2624.6	2639.1	2670.6	2716.7	2784.2	2861.3	2936.8	2947.2	2965.8	2895.8	2707.1
15°	2443.5	2455.9	2487.0	2543.4	2627.1	2730.8	2841.4	2860.5	2908.6	2858.9	2648.3
17.5°	2289.7	2297.5	2320.3	2382.9	2479.9	2605.6	2749.4	2786.7	2858.4	2829.8	2597.3
20°	2182.3	2183.5	2198.5	2242.4	2339.4	2479.9	2654.1	2707.5	2805.4	2805.0	2544.6
22.5°	2129.2	2125.1	2128.0	2153.3	2224.6	2360.1	2558.7	2622.1	2757.7	2783.8	2491.1
25°	2119.3	2116.0	2107.7	2111.0	2154.1	2255.2	2462.5	2535.9	2715.8	2771.0	2444.7
27.5°	2150.4	2153.7	2139.6	2124.7	2128.0	2187.3	2377.1	2462.1	2681.8	2771.0	2412.0
30°	2213.0	2214.6	2204.3	2184.8	2158.7	2168.2	2317.8	2402.8	2664.8	2790.0	2391.2
32.5°	2282.2	2291.3	2290.1	2274.3	2237.0	2198.5	2303.8	2381.3	2663.6	2832.3	2389.2
35°	2368.0	2378.4	2395.8	2392.5	2353.5	2290.1	2351.8	2412.8	2688.1	2902.0	2411.5
37.5°	2459.2	2475.0	2512.3	2530.1	2504.8	2433.1	2459.6	2503.2	2753.6	3014.7	2468.3
40°	2547.5	2565.3	2633.3	2703.4	2684.3	2610.5	2623.0	2657.8	2870.1	3176.8	2576.1
42.5°	2634.2	2660.7	2760.6	2875.9	2898.7	2839.8	2846.4	2874.2	3042.9	3399.9	2752.3
45°	2737.8	2767.7	2915.7	3057.9	3118.8	3093.1	3121.3	3139.5	3268.9	3694.6	2989.9
47.5°	2890.0	2924.4	3105.9	3268.0	3375.0	3391.6	3448.4	3460.4	3554.5	4037.9	3299.5
50°	3186.8	3196.3	3360.5	3507.7	3661.9	3761.4	3826.0	3835.2	3900.3	4413.1	3686.3
52.5°	3560.3	3566.5	3659.4	3758.1	3933.4	4136.6	4287.9	4300.7	4314.4	4778.7	4068.2
55°	3931.3	3930.5	3991.9	4049.9	4250.6	4545.7	4874.1	4882.0	4783.7	5125.7	4360.0
57.5°	4163.1	4185.5	4278.8	4353.4	4633.6	5012.1	5467.7	5496.8	5276.6	5382.8	4648.6
60°	4089.3	4100.1	4306.9	4583.0	5110.8	5675.0	6068.4	6075.9	5647.2	5639.4	5013.4
62.5°	3484.0	3489.8	3814.9	4384.1	5352.5	6534.8	6793.1	6671.6	6073.4	5995.5	5449.9
65°	2387.9	2425.6	2697.2	3400.7	4908.5	7074.2	7914.9	7713.9	6723.0	6508.7	5844.6
67.5°	1406.2	1398.3	1532.7	2050.9	3605.1	6716.0	9334.0	9134.2	7609.0	6852.4	5728.9
70°	960.6	955.2	1006.6	1241.6	2035.1	5209.9	9780.5	10183.9	8391.3	6621.1	4930.5
72.5°	685.7	688.6	764.5	964.7	1277.7	3035.5	8410.8	9365.5	8146.3	5772.0	3747.7
75°	465.6	473.4	582.1	791.4	1120.2	1544.3	5968.5	7119.4	6633.5	4195.0	2154.1
77.5°	250.4	259.1	387.2	637.6	1012.8	1072.9	3839.3	4899.8	4166.8	1885.9	624.3
80°	104.5	109.4	181.2	463.5	875.2	942.3	2259.0	2971.2	1775.6	371.9	139.3
82.5°	45.2	47.7	75.5	276.5	654.2	795.6	1196.0	1429.4	538.1	81.7	70.1
85°	8.7	9.1	31.1	146.3	417.5	449.0	775.2	759.9	241.7	35.2	51.0
87.5°	0.0	0.0	7.5	46.0	122.7	244.6	473.0	467.2	82.1	17.0	19.1
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°	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1	2945.1
2.5°	2921.9	2893.3	2833.2	2758.9	2702.2	2639.6	2589.8	2526.8	2499.4	2500.7	2485.7
5°	2856.4	2797.5	2664.4	2496.5	2367.2	2233.7	2118.9	2004.4	1936.9	1914.9	1894.2
7.5°	2762.7	2669.4	2457.1	2198.5	1979.6	1765.6	1579.5	1415.7	1312.1	1261.5	1242.9
10°	2657.0	2526.0	2218.8	1878.0	1565.4	1276.0	1034.8	825.0	741.2	684.5	669.9
12.5°	2564.1	2386.7	1985.8	1549.2	1178.2	829.1	599.1	468.5	411.7	389.3	385.5
15°	2476.6	2256.5	1761.5	1251.6	815.9	510.3	381.0	336.6	323.4	319.6	319.6
17.5°	2394.1	2132.5	1542.2	958.5	539.8	357.8	315.5	305.5	301.4	301.0	301.4
20°	2307.9	2008.6	1326.6	702.3	376.8	303.0	291.4	286.1	284.8	284.8	284.8
22.5°	2225.4	1884.6	1116.8	501.6	302.2	276.5	270.7	267.0	265.7	265.3	264.5
25°	2146.2	1766.9	912.0	354.5	265.3	253.3	248.3	243.4	239.6	237.5	236.3
27.5°	2081.1	1662.0	721.3	284.4	239.6	229.3	223.0	215.6	206.5	202.3	200.7
30°	2029.3	1566.2	555.9	240.0	215.6	205.2	195.7	182.8	169.6	162.5	162.1
32.5°	1988.7	1472.1	422.0	212.3	194.0	181.2	167.5	151.3	136.0	128.1	127.7
35°	1968.8	1389.2	322.5	191.9	174.9	158.8	141.8	124.0	109.0	101.6	100.7
37.5°	1982.0	1319.2	251.6	174.9	158.8	140.1	120.2	101.6	88.3	81.7	81.3
40°	2030.6	1274.4	204.4	160.4	145.1	122.3	100.7	83.3	72.1	66.7	66.3
42.5°	2133.8	1257.8	174.5	148.4	131.8	105.7	83.7	68.8	58.5	54.7	53.9
45°	2306.2	1282.3	154.2	136.8	118.2	90.0	69.2	56.4	47.3	44.4	43.9
47.5°	2535.9	1346.5	139.7	125.6	105.7	75.9	57.6	45.6	38.6	35.7	35.2
50°	2831.9	1448.5	127.7	114.4	94.1	64.3	47.7	36.1	29.8	27.8	27.8
52.5°	3154.0	1570.0	116.9	104.1	82.5	53.5	38.6	27.8	23.6	21.1	21.1
55°	3420.2	1676.1	105.3	96.2	68.4	44.4	29.4	21.1	17.4	16.2	16.2
57.5°	3685.9	1789.3	92.0	82.5	54.7	36.1	22.4	15.8	12.9	12.0	12.0
60°	4030.4	1927.7	79.2	67.2	43.1	27.4	16.6	11.2	9.5	9.1	9.1
62.5°	4409.3	2009.0	67.6	53.9	33.6	20.3	12.0	7.5	7.0	7.0	6.6
65°	4641.1	1894.2	56.8	43.1	26.1	15.3	7.9	5.4	6.2	5.8	5.0
67.5°	4345.5	1482.9	46.4	33.6	20.3	11.6	5.0	3.7	6.6	5.4	4.1
70°	3598.0	1038.1	36.1	23.6	16.2	9.9	3.3	2.5	7.0	5.4	3.3
72.5°	2692.6	694.8	28.6	15.8	12.0	8.7	2.9	1.2	6.2	4.6	2.9
75°	1471.3	279.8	22.8	9.9	7.5	6.2	2.1	0.8	4.1	3.3	2.1
77.5°	387.2	73.8	16.6	6.6	4.1	2.5	1.2	0.4	2.1	1.7	0.8
80°	98.7	28.6	10.8	4.6	2.9	1.2	0.0	0.0	0.4	0.0	0.0
82.5°	52.7	12.0	6.6	3.3	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.8	7.9	3.7	2.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.3	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)