

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: P527245

Luminaire Tested: **GALN-SA2B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527245  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-730-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6094 lumens  
Efficiency: N/A  
Efficacy: 74.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

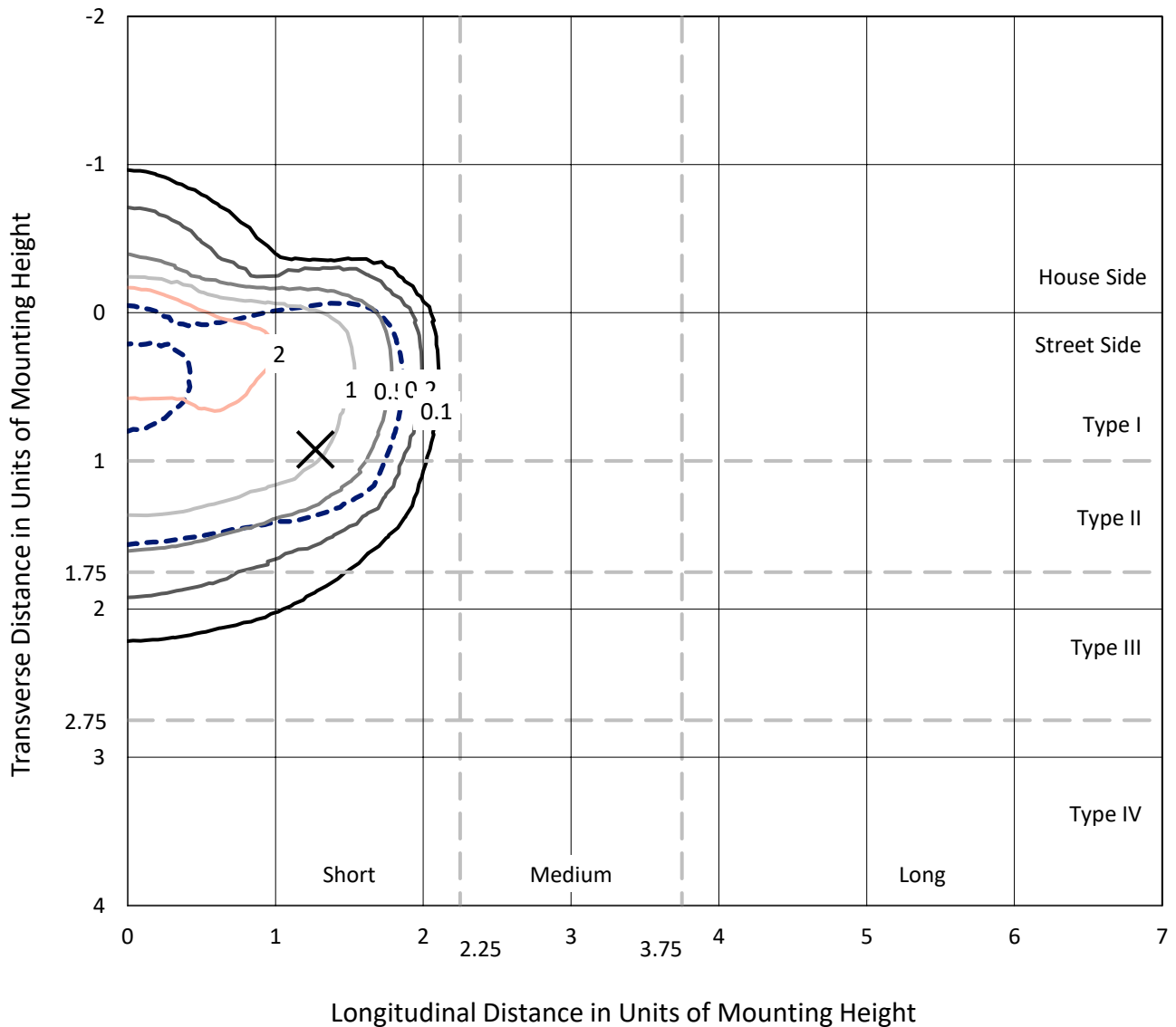
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

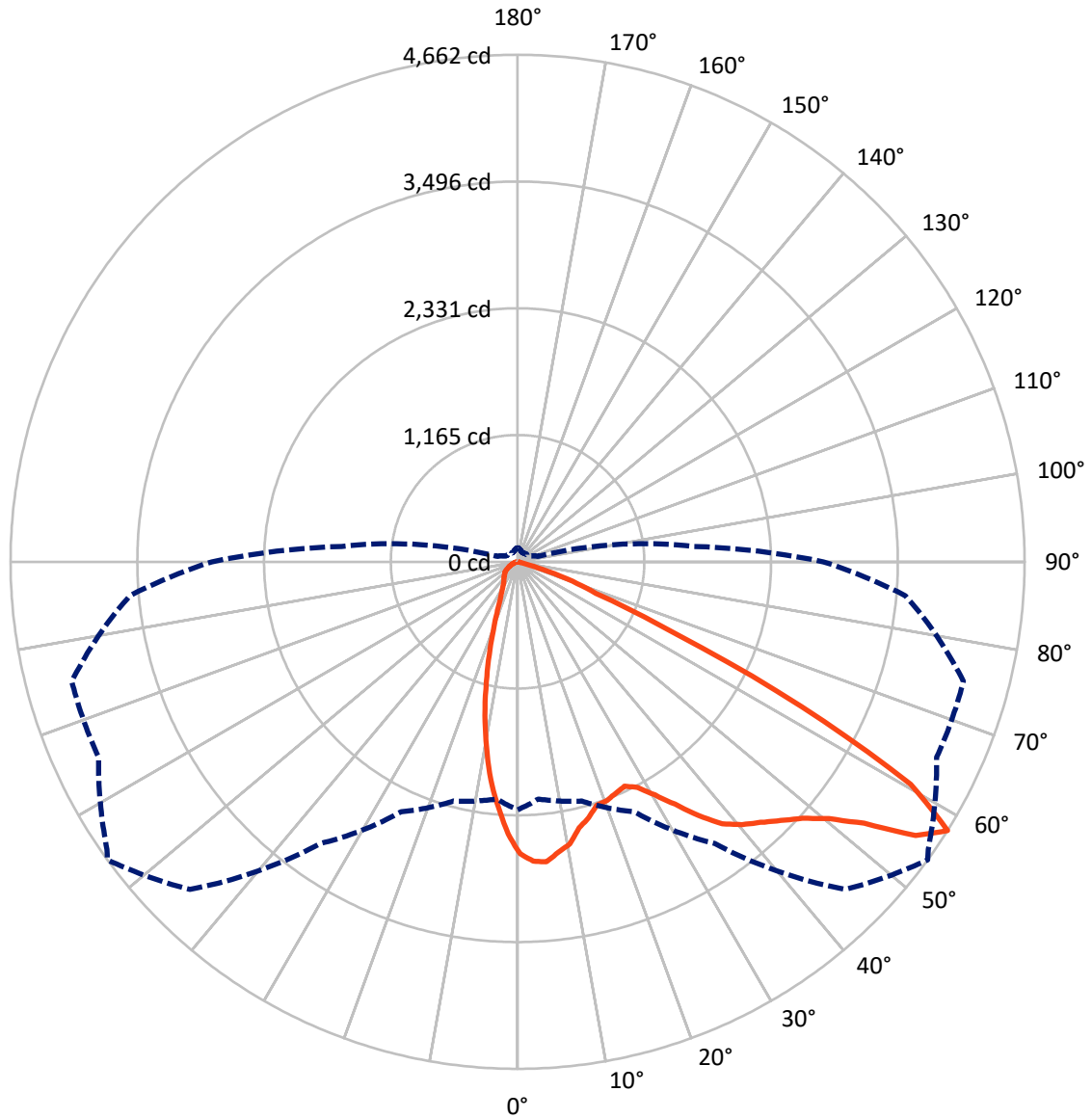
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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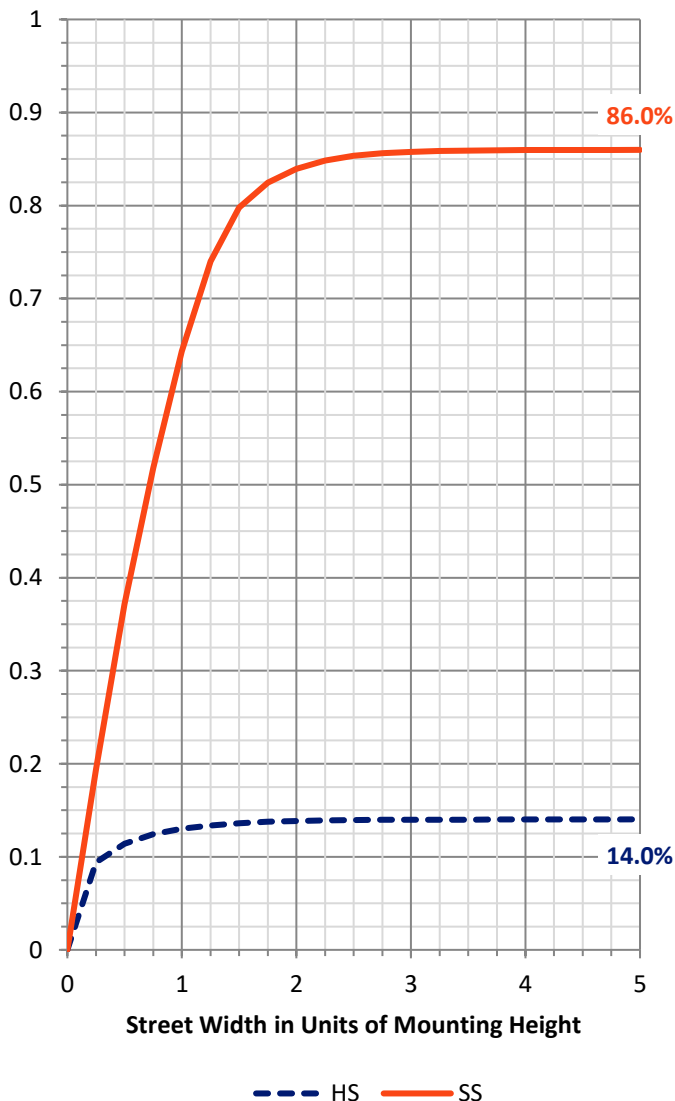
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	861.2	0.0	861.2
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	5232.8	0.0	5232.8
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	6094.0	0.0	6094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.6	3.7
10°-20°	479.6	7.9
20°-30°	635.6	10.4
30°-40°	923.7	15.2
40°-50°	1369.7	22.5
50°-60°	1712.7	28.1
60°-70°	675.6	11.1
70°-80°	67.3	1.1
80°-90°	5.2	0.1
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°	6094.0	100.0
0°-180°	6094.0	100.0

**Coefficient of Utilization**

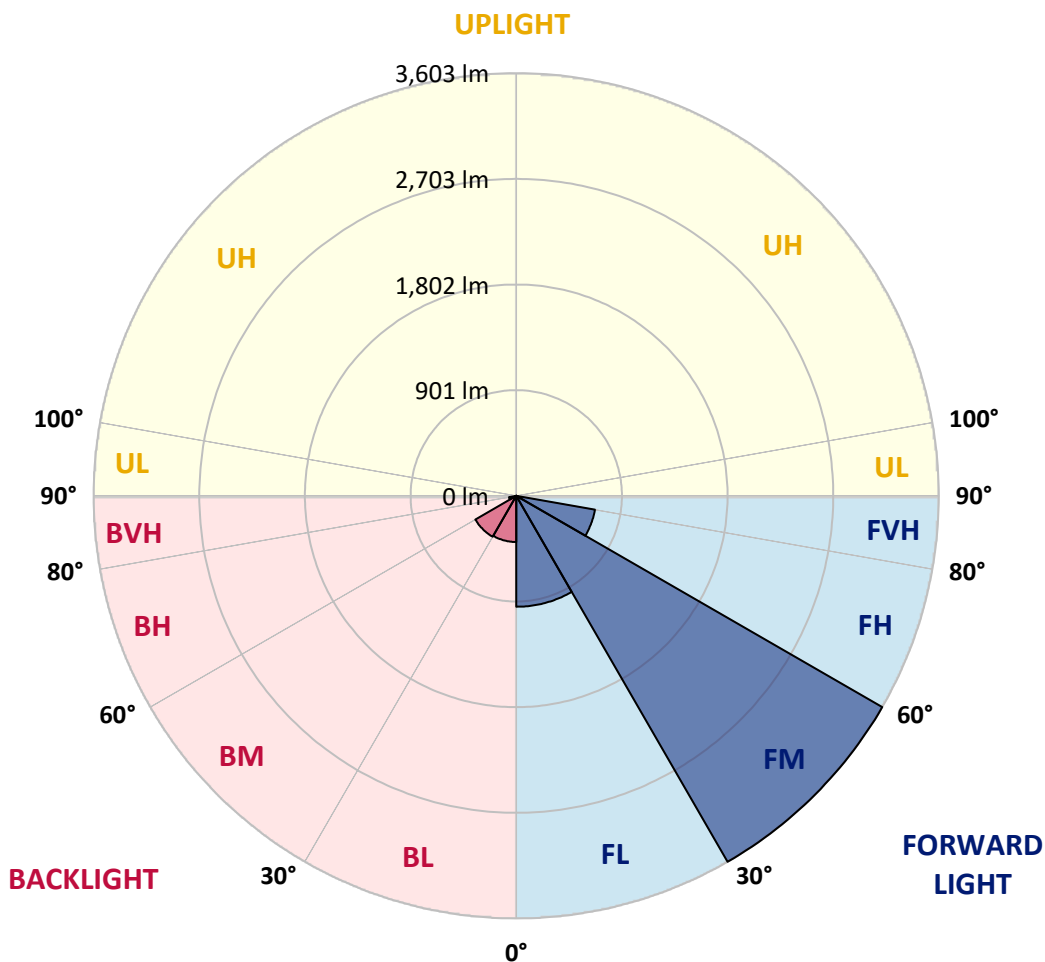


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.0	15.5			
FM (30°-60°)	3603.4	59.1			
FH (60°-80°)	681.1	11.2			G1/1800
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	393.9	6.5	B1/500		
BM (30°-60°)	402.7	6.6	B1/1000		
BH (60°-80°)	61.8	1.0	B0/110		G0/110
BVH (80°-90°)	2.9	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5
2.5°	2840.9	2811.4	2813.7	2803.5	2789.9	2800.1	2755.9	2766.1	2764.9	2704.9	2665.2
5°	2769.5	2801.2	2768.3	2795.5	2769.5	2797.8	2770.6	2750.2	2717.4	2673.2	2599.5
7.5°	2648.2	2617.6	2626.7	2660.7	2666.4	2729.8	2695.8	2721.9	2708.3	2621.0	2520.2
10°	2404.6	2397.8	2443.1	2488.4	2544.0	2612.0	2638.0	2623.3	2613.1	2580.2	2445.4
12.5°	2217.6	2236.9	2235.8	2310.5	2404.6	2443.1	2511.1	2508.8	2565.5	2504.3	2375.1
15°	2039.7	2049.9	2097.5	2144.0	2248.2	2358.1	2442.0	2453.3	2521.3	2478.3	2320.7
17.5°	1930.9	1916.2	1953.6	2009.1	2115.6	2259.5	2352.5	2379.7	2472.6	2463.5	2258.4
20°	1823.3	1823.3	1853.9	1919.6	2017.0	2179.1	2344.5	2336.6	2472.6	2446.5	2191.6
22.5°	1787.0	1805.1	1813.1	1862.9	1978.5	2117.9	2310.5	2325.3	2491.8	2438.6	2162.1
25°	1836.9	1813.1	1815.3	1855.0	1963.8	2088.4	2285.6	2318.5	2527.0	2478.3	2138.3
27.5°	1844.8	1868.6	1875.4	1902.6	1975.1	2097.5	2347.9	2414.8	2614.2	2571.2	2145.1
30°	1913.9	1937.7	1936.6	1983.1	2032.9	2171.2	2487.3	2500.9	2794.4	2687.9	2187.0
32.5°	1997.8	2022.7	2030.6	2085.0	2124.7	2306.0	2657.3	2692.4	2967.8	2871.5	2296.9
35°	2102.0	2093.0	2129.2	2183.6	2268.6	2503.2	2864.7	2923.6	3154.8	3109.4	2410.3
37.5°	2232.4	2221.0	2256.1	2344.5	2460.1	2736.6	3056.2	3094.7	3290.7	3330.4	2619.9
40°	2324.1	2328.7	2435.2	2554.2	2676.6	2958.7	3177.4	3214.8	3385.9	3536.6	2778.5
42.5°	2477.1	2505.4	2633.5	2778.5	2906.6	3125.3	3276.0	3312.3	3430.1	3702.1	2992.7
45°	2699.2	2686.8	2828.4	2990.4	3132.1	3298.7	3392.7	3380.3	3456.2	3866.4	3127.6
47.5°	2984.8	2987.0	3081.1	3219.3	3366.7	3449.4	3523.0	3478.8	3510.6	4039.8	3307.7
50°	3179.7	3196.7	3272.6	3414.3	3487.9	3614.8	3708.9	3681.7	3671.5	4144.0	3421.1
52.5°	3229.5	3280.5	3321.3	3498.1	3670.4	3870.9	3991.0	4048.8	3867.5	4179.1	3565.0
55°	2853.3	2898.7	3042.6	3285.1	3739.5	4276.6	4442.0	4443.2	4123.6	4335.5	3665.8
57.5°	2281.1	2189.3	2277.7	2534.9	3161.6	4259.6	4661.9	4608.6	4251.7	4243.7	3578.6
60°	1577.4	1554.7	1560.4	1662.4	2188.2	3388.2	4154.2	4223.3	3915.1	3678.3	2832.9
62.5°	1249.9	1230.6	1205.7	1194.4	1358.7	2111.1	2930.4	3027.8	2737.7	2385.3	1679.4
65°	979.1	967.7	971.1	1016.5	1015.3	1197.8	1602.3	1562.6	1251.0	924.7	528.1
67.5°	660.6	677.6	691.2	828.4	898.6	834.0	774.0	751.3	406.8	171.1	116.7
70°	371.7	373.9	388.7	517.9	682.2	647.0	533.7	533.7	202.8	62.3	66.9
72.5°	202.8	196.0	182.4	223.2	303.7	308.2	238.0	207.4	60.1	40.8	37.4
75°	98.6	97.5	83.9	69.1	65.7	54.4	41.9	38.5	27.2	26.1	22.7
77.5°	20.4	19.3	10.2	10.2	11.3	12.5	15.9	15.9	19.3	19.3	15.9
80°	0.0	0.0	1.1	4.5	7.9	11.3	13.6	13.6	15.9	15.9	12.5
82.5°	0.0	0.0	1.1	3.4	6.8	10.2	12.5	13.6	15.9	17.0	13.6
85°	0.0	0.0	0.0	2.3	5.7	7.9	6.8	6.8	5.7	4.5	2.3
87.5°	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5	2684.5
2.5°	2644.8	2642.6	2590.4	2561.0	2507.7	2461.3	2423.9	2396.7	2396.7	2379.7	2363.8
5°	2570.0	2550.8	2439.7	2368.3	2267.5	2192.7	2141.7	2102.0	2039.7	2056.7	1989.9
7.5°	2477.1	2428.4	2281.1	2172.3	2032.9	1926.4	1817.6	1721.3	1628.4	1586.4	1609.1
10°	2377.4	2292.4	2094.1	1921.9	1748.5	1553.6	1426.7	1272.6	1177.4	1171.7	1146.8
12.5°	2272.0	2175.7	1934.3	1696.4	1468.6	1234.0	1040.3	896.3	831.7	760.4	774.0
15°	2192.7	2049.9	1756.4	1469.7	1167.2	930.3	735.4	624.4	563.2	546.2	540.5
17.5°	2106.6	1953.6	1575.1	1228.4	915.6	669.7	529.2	475.9	452.1	452.1	448.7
20°	2017.0	1844.8	1394.9	1004.0	686.7	499.7	423.8	406.8	405.7	404.5	404.5
22.5°	1958.1	1720.2	1231.8	797.8	517.9	400.0	368.3	361.5	366.0	379.6	379.6
25°	1895.8	1600.0	1051.6	615.3	401.1	343.4	325.2	329.8	341.1	353.6	349.0
27.5°	1832.3	1521.9	881.6	482.7	328.6	300.3	293.5	303.7	316.2	327.5	324.1
30°	1817.6	1438.0	720.7	366.0	282.2	261.8	266.3	275.4	287.8	292.4	296.9
32.5°	1840.3	1372.3	590.4	300.3	245.9	240.2	240.2	244.8	252.7	262.9	259.5
35°	1904.9	1334.9	466.9	260.6	225.5	219.8	218.7	223.2	227.8	231.2	227.8
37.5°	2003.5	1305.4	381.9	231.2	211.9	202.8	200.6	199.4	204.0	205.1	207.4
40°	2129.2	1321.3	324.1	213.0	198.3	188.1	181.3	181.3	181.3	184.7	185.8
42.5°	2265.2	1342.8	279.9	202.8	185.8	173.4	166.6	164.3	166.6	171.1	170.0
45°	2408.0	1384.7	251.6	187.0	174.5	158.6	149.6	147.3	153.0	162.0	160.9
47.5°	2541.7	1444.8	230.0	176.8	163.2	148.4	137.1	134.8	145.0	157.5	158.6
50°	2675.4	1549.0	222.1	168.8	155.2	138.2	128.0	125.8	137.1	153.0	156.4
52.5°	2829.5	1661.2	216.4	158.6	146.2	130.3	119.0	116.7	129.2	149.6	150.7
55°	2930.4	1756.4	211.9	140.5	129.2	117.9	108.8	107.7	121.2	139.4	143.9
57.5°	2812.5	1623.8	196.0	122.4	109.9	104.3	96.3	96.3	107.7	124.6	128.0
60°	2132.6	1068.6	139.4	98.6	92.9	89.5	86.1	86.1	95.2	107.7	108.8
62.5°	1248.8	575.7	89.5	79.3	79.3	75.9	70.3	70.3	79.3	86.1	87.3
65°	370.5	184.7	72.5	68.0	66.9	61.2	55.5	54.4	61.2	64.6	63.5
67.5°	106.5	85.0	60.1	56.7	55.5	46.5	43.1	41.9	43.1	40.8	39.7
70°	63.5	57.8	46.5	47.6	41.9	34.0	30.6	29.5	27.2	23.8	21.5
72.5°	35.1	35.1	34.0	36.3	29.5	22.7	19.3	15.9	12.5	10.2	9.1
75°	21.5	22.7	23.8	24.9	19.3	14.7	12.5	7.9	4.5	2.3	2.3
77.5°	14.7	15.9	17.0	18.1	15.9	13.6	10.2	5.7	1.1	0.0	0.0
80°	11.3	12.5	14.7	15.9	17.0	18.1	13.6	5.7	1.1	0.0	0.0
82.5°	12.5	13.6	17.0	15.9	15.9	15.9	12.5	5.7	1.1	0.0	0.0
85°	2.3	3.4	5.7	5.7	7.9	10.2	7.9	2.3	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	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)