

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: P652212

Luminaire Tested: **GALN-SA2B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7178.8 lumens  
Efficiency: N/A  
Efficacy: 87.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

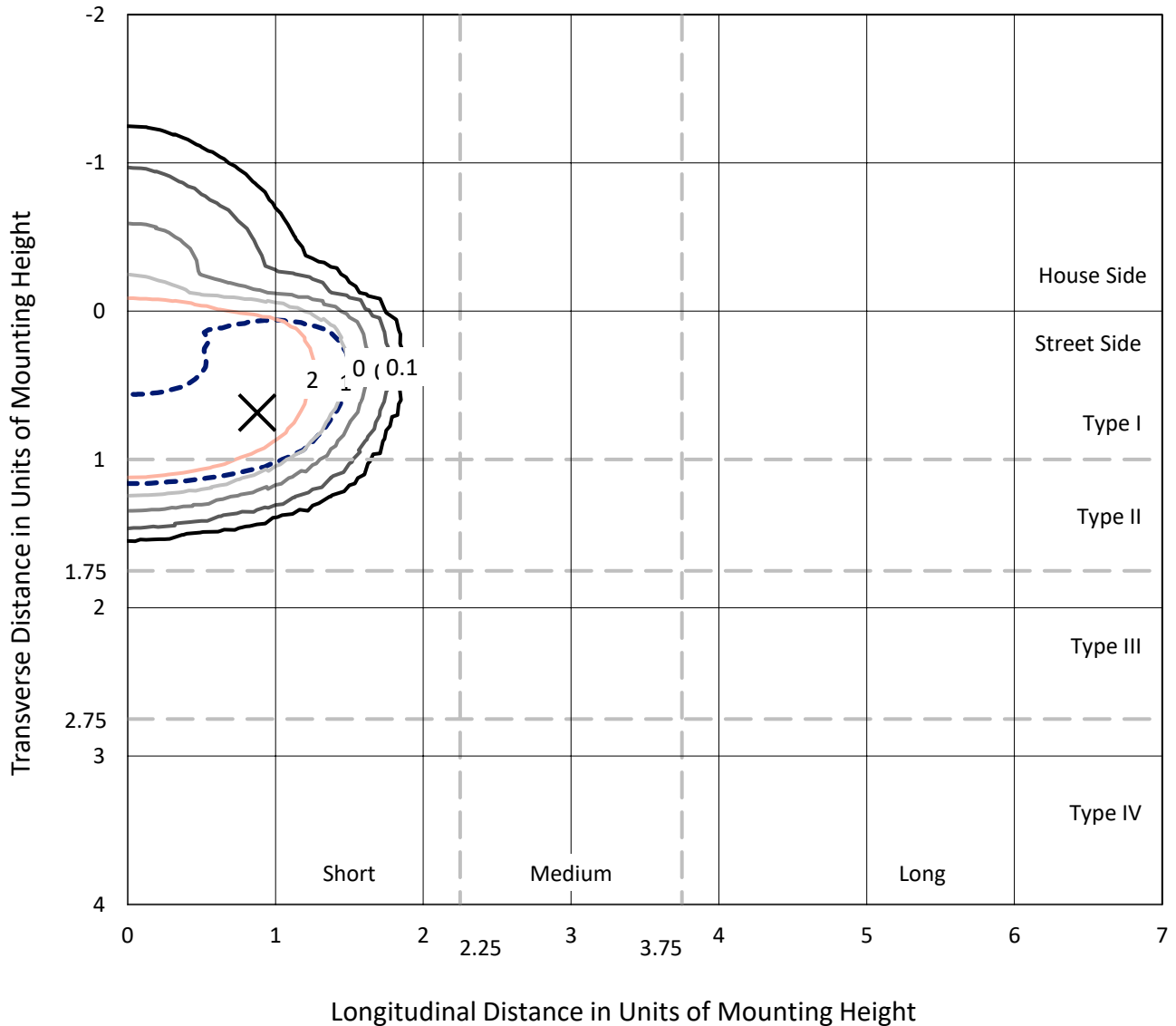
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

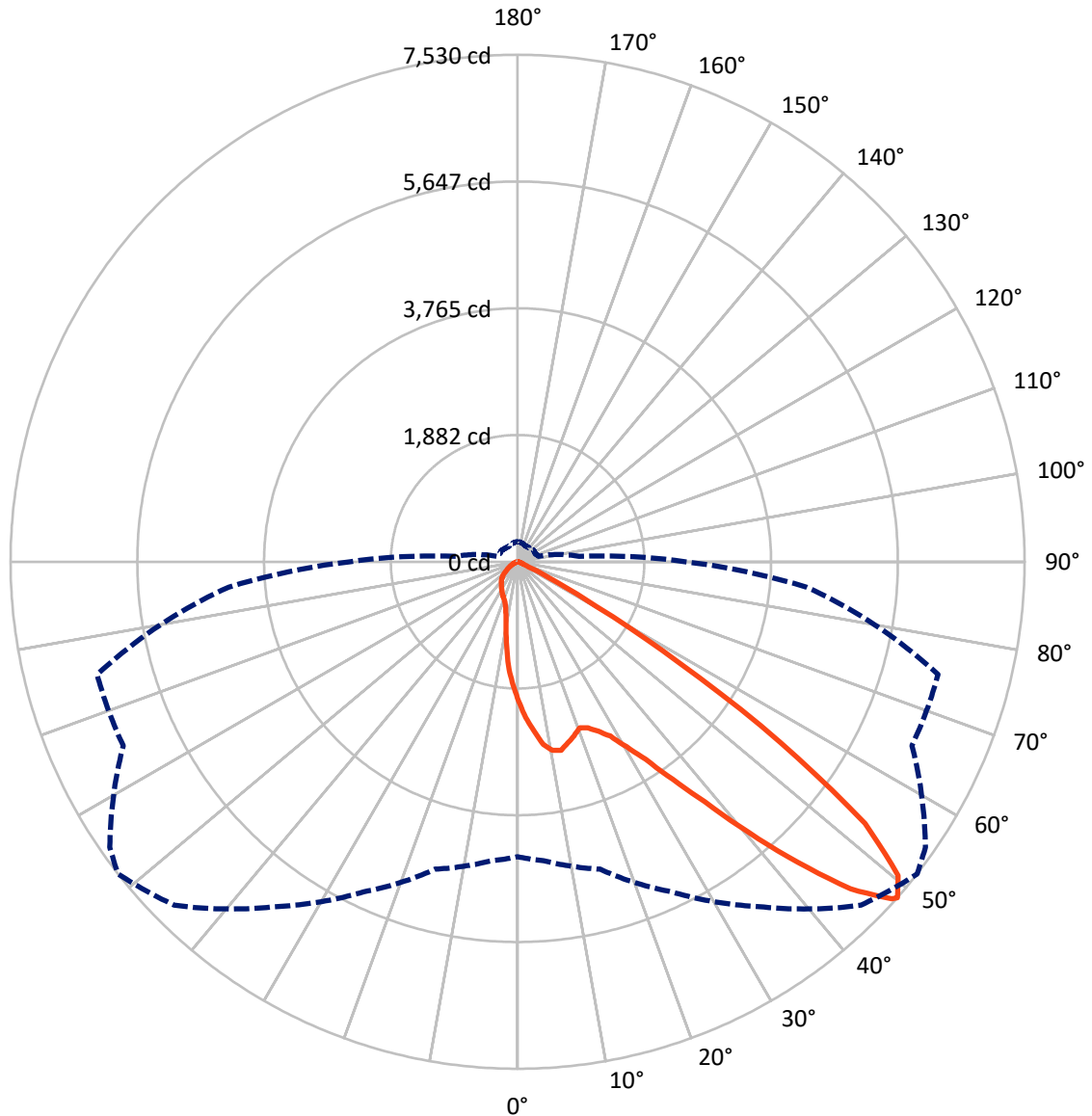
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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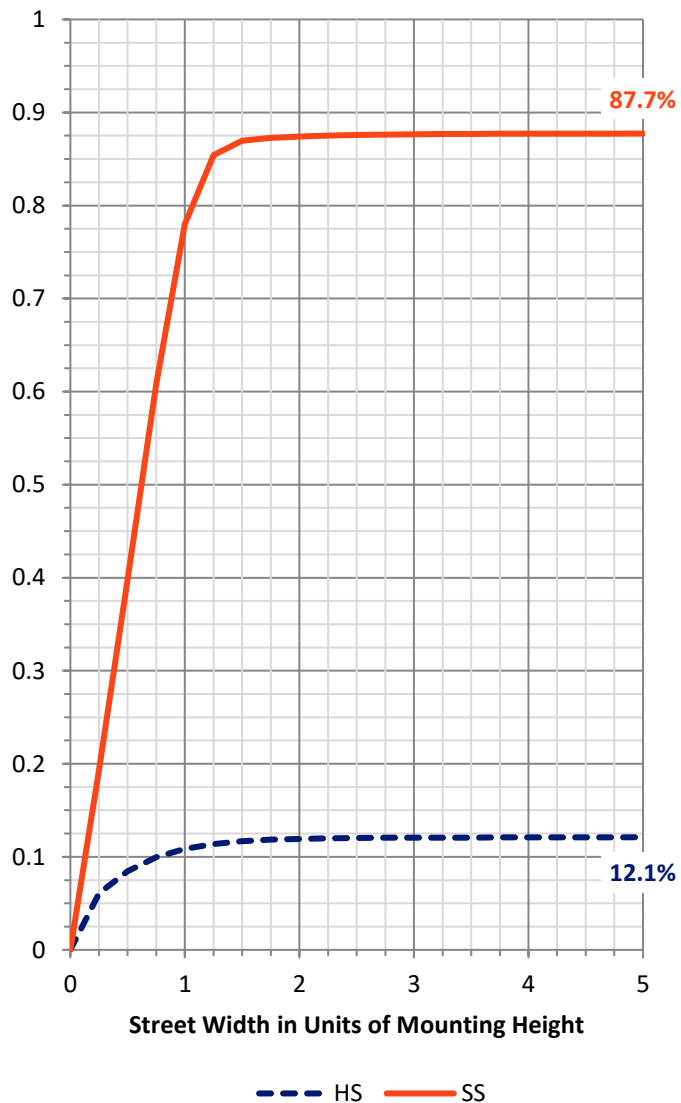
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	874.1	0.0	874.1
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	6304.7	0.0	6304.7
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	7178.8	0.0	7178.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	2.6
10°-20°	495.9	6.9
20°-30°	846.7	11.8
30°-40°	1559.2	21.7
40°-50°	2421.4	33.7
50°-60°	1457.2	20.3
60°-70°	168.5	2.3
70°-80°	32.6	0.5
80°-90°	7.5	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°	7178.8	100.0
0°-180°	7178.8	100.0

**Coefficient of Utilization**

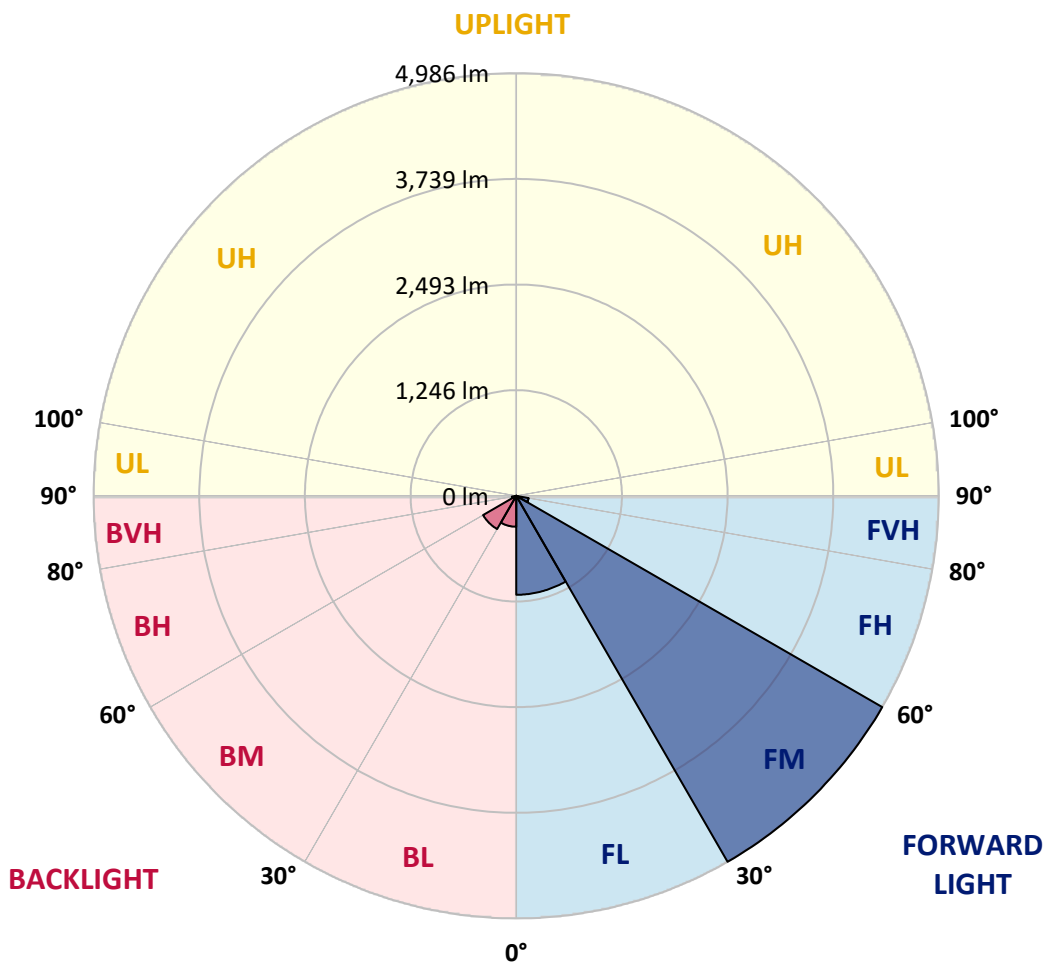


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.2	16.3			
FM (30°-60°)	4985.5	69.4			
FH (60°-80°)	148.4	2.1			G0/660
FVH (80°-90°)	3.6	0.0			G0/10
BL (0°-30°)	365.1	5.1	B1/500		
BM (30°-60°)	452.2	6.3	B1/1000		
BH (60°-80°)	52.8	0.7	B0/110		G0/110
BVH (80°-90°)	3.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1
2.5°	2512.7	2455.0	2460.3	2422.7	2400.6	2365.1	2317.0	2307.5	2255.2	2184.1	2111.8
5°	2738.7	2725.1	2742.8	2688.4	2690.5	2631.9	2518.9	2521.0	2400.6	2284.5	2172.6
7.5°	2753.3	2722.0	2739.7	2787.8	2816.1	2805.7	2741.8	2686.3	2572.3	2401.7	2238.5
10°	2465.6	2525.2	2544.0	2623.6	2736.6	2855.9	2848.6	2851.7	2756.5	2533.6	2295.0
12.5°	2292.9	2253.1	2317.0	2365.1	2535.7	2767.0	2872.6	2895.6	2903.0	2661.3	2351.5
15°	2214.4	2214.4	2224.9	2238.5	2361.9	2575.4	2791.0	2858.0	3016.0	2828.7	2440.4
17.5°	2263.6	2261.4	2276.2	2247.9	2293.9	2458.2	2715.7	2792.0	3142.6	2993.0	2510.6
20°	2413.2	2420.6	2411.1	2329.5	2332.7	2456.1	2631.9	2752.3	3228.4	3135.3	2603.7
22.5°	2621.5	2625.7	2572.3	2483.3	2457.1	2517.9	2680.1	2772.2	3297.5	3305.9	2631.9
25°	2862.2	2845.4	2834.9	2709.4	2629.8	2682.2	2788.9	2842.3	3340.5	3452.4	2712.6
27.5°	3196.0	3162.5	3098.7	2986.7	2928.1	2853.8	2930.2	3018.1	3462.9	3657.5	2800.4
30°	3688.9	3659.6	3535.1	3390.7	3236.8	3163.6	3187.6	3235.7	3683.7	3895.1	2916.6
32.5°	4430.9	4369.2	4189.1	3913.9	3704.6	3502.6	3496.4	3547.6	3881.5	4223.7	3054.8
35°	5248.2	5229.3	4964.6	4681.0	4276.0	3964.1	3969.4	3996.6	4260.3	4654.9	3235.7
37.5°	5791.3	5894.9	5726.5	5421.9	5081.8	4636.0	4523.0	4532.4	4780.4	5165.5	3562.3
40°	6211.0	6123.1	6142.9	6071.8	5839.5	5536.0	5285.9	5236.7	5382.1	5730.7	3886.7
42.5°	6027.8	6032.0	6154.4	6323.0	6380.5	6358.5	6103.1	6010.0	5897.0	6193.2	4195.4
45°	5510.8	5618.6	5777.7	6223.5	6614.9	6982.2	6932.0	6777.1	6252.8	6559.5	4373.3
47.5°	4686.2	4682.0	4942.6	5522.3	6392.0	7252.2	7480.4	7371.5	6505.1	6518.6	4336.7
48°	4381.7	4457.0	4726.0	5408.3	6250.7	7212.5	7529.6	7392.5	6462.2	6464.2	4305.3
50°	3238.9	3225.3	3560.2	4397.4	5583.1	6777.1	7322.3	7429.1	6461.1	6189.0	4085.5
52.5°	1711.0	1769.6	2013.4	2764.9	3947.4	5546.4	6459.0	6625.4	6232.9	5739.0	3769.4
55°	727.3	657.2	844.5	1248.5	2220.7	3705.6	4738.5	5109.0	5270.1	5078.6	3297.5
57.5°	259.5	283.6	326.5	469.9	933.5	2028.1	2825.5	3113.3	3651.2	3726.6	2246.8
60°	166.4	169.5	183.2	215.5	350.6	781.7	1340.6	1569.7	1813.6	1872.2	1048.6
62.5°	128.8	129.8	136.1	141.3	166.4	303.5	503.3	596.5	619.6	532.7	275.3
65°	107.8	108.8	110.9	110.9	118.2	142.3	175.9	193.6	188.4	186.3	155.9
67.5°	82.7	84.8	89.0	89.0	93.1	86.9	97.3	103.6	117.2	142.3	132.9
70°	64.8	65.9	69.0	71.1	71.1	62.8	70.1	76.4	85.8	105.7	104.6
72.5°	50.2	52.3	54.4	54.4	51.3	42.9	50.2	55.5	61.7	73.3	71.1
75°	38.7	38.7	39.8	32.5	25.1	22.0	30.4	36.7	46.1	48.1	39.8
77.5°	10.4	11.5	10.4	9.4	10.4	15.7	19.8	23.0	29.3	29.3	26.2
80°	0.0	1.0	3.1	6.3	10.4	14.6	17.8	19.8	23.0	25.1	24.1
82.5°	0.0	1.0	3.1	6.3	9.4	11.5	15.7	16.7	18.8	22.0	22.0
85°	0.0	1.0	2.1	4.2	6.3	7.3	7.3	6.3	6.3	5.2	4.2
87.5°	0.0	0.0	1.0	2.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1
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°	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1	2073.1
2.5°	2083.6	2051.1	2001.9	1924.5	1850.2	1802.1	1756.0	1704.7	1676.4	1674.4	1658.7
5°	2108.7	2035.5	1918.2	1785.4	1643.0	1520.5	1397.1	1316.5	1244.3	1204.5	1197.2
7.5°	2122.3	2027.1	1837.7	1614.7	1371.9	1172.1	1033.9	932.4	892.6	863.4	862.3
10°	2150.5	2012.4	1717.3	1388.7	1088.3	886.4	791.1	745.1	723.1	714.8	702.2
12.5°	2171.5	1985.2	1593.8	1156.4	860.3	734.6	692.8	682.3	683.4	687.5	682.3
15°	2200.8	1961.1	1427.4	949.2	722.1	661.4	661.4	663.5	678.1	680.2	679.2
17.5°	2198.7	1914.0	1255.8	781.7	638.4	630.0	633.1	653.0	662.5	665.6	658.3
20°	2223.8	1870.1	1078.9	667.7	591.3	603.8	624.8	630.0	641.5	643.6	635.2
22.5°	2216.5	1760.2	914.7	577.7	555.6	579.8	600.7	606.9	603.8	597.5	596.5
25°	2202.9	1666.0	764.0	518.1	529.5	555.6	575.6	564.1	557.8	558.8	559.9
27.5°	2178.8	1546.7	639.4	476.2	493.9	532.7	531.6	527.5	533.7	528.5	533.7
30°	2174.7	1427.4	536.9	438.5	467.8	496.0	498.1	505.4	512.8	503.3	512.8
32.5°	2180.9	1296.6	463.6	415.5	452.1	453.1	476.2	483.5	478.3	457.3	459.4
35°	2229.1	1196.2	410.2	402.9	427.0	428.0	450.0	440.6	417.6	405.0	412.3
37.5°	2330.6	1112.4	385.1	391.4	393.5	407.1	408.1	389.3	391.4	390.3	394.5
40°	2460.3	1048.6	367.3	380.9	378.9	388.3	350.6	361.0	370.5	373.6	375.7
42.5°	2549.2	1002.6	355.8	364.2	360.0	343.2	322.4	332.8	340.1	351.6	353.7
45°	2589.0	965.9	342.2	334.9	334.9	304.5	296.2	298.2	315.0	327.6	325.5
47.5°	2524.2	930.3	318.2	296.2	303.5	278.4	269.0	269.0	286.8	302.4	299.3
48°	2499.0	915.7	319.2	287.8	293.0	274.2	264.7	262.6	282.6	297.2	297.2
50°	2374.5	861.3	292.0	264.7	254.3	252.2	245.9	248.0	260.5	274.2	274.2
52.5°	2131.7	744.0	247.0	227.1	208.2	220.8	224.0	219.8	226.1	238.6	237.6
55°	1779.1	571.4	197.8	188.4	173.8	187.3	193.6	188.4	182.1	191.5	191.5
57.5°	1139.6	307.6	158.0	160.1	145.5	159.0	164.3	151.7	140.2	147.6	146.5
60°	513.9	184.2	129.8	126.7	117.2	132.9	141.3	126.7	110.9	116.1	121.4
62.5°	192.6	130.8	98.4	96.3	94.2	108.8	113.0	101.5	85.8	89.0	90.0
65°	141.3	115.1	78.5	71.1	75.4	85.8	83.7	72.2	61.7	61.7	63.8
67.5°	120.3	100.5	63.8	55.5	55.5	56.5	52.3	46.1	42.9	45.0	47.1
70°	94.2	79.6	50.2	42.9	38.7	34.6	30.4	29.3	26.2	29.3	28.3
72.5°	60.7	53.4	38.7	32.5	29.3	24.1	19.8	18.8	15.7	14.6	14.6
75°	32.5	32.5	30.4	26.2	23.0	18.8	15.7	12.5	8.4	6.3	6.3
77.5°	23.0	25.1	27.2	25.1	20.9	15.7	12.5	8.4	4.2	2.1	2.1
80°	22.0	25.1	27.2	24.1	20.9	15.7	11.5	6.3	3.1	1.0	1.0
82.5°	19.8	23.0	25.1	22.0	18.8	13.6	10.4	6.3	3.1	1.0	1.0
85°	4.2	5.2	6.3	6.3	7.3	9.4	7.3	5.2	2.1	1.0	1.0
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.1	2.1	1.0	1.0	1.0
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)