

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: P646742

Luminaire Tested: **GALN-SA1C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-835-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4894.5 lumens  
Efficiency: N/A  
Efficacy: 85.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

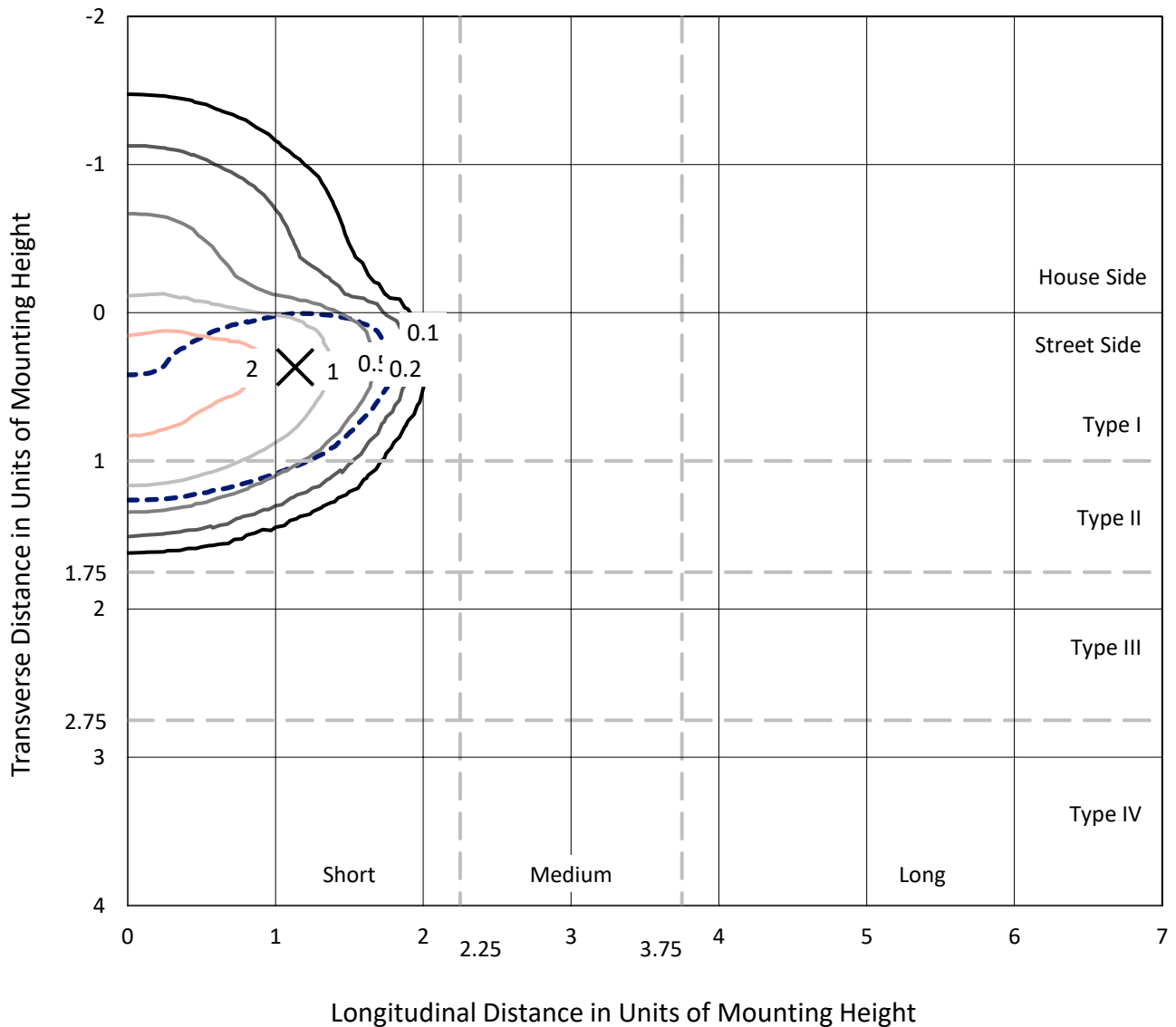
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

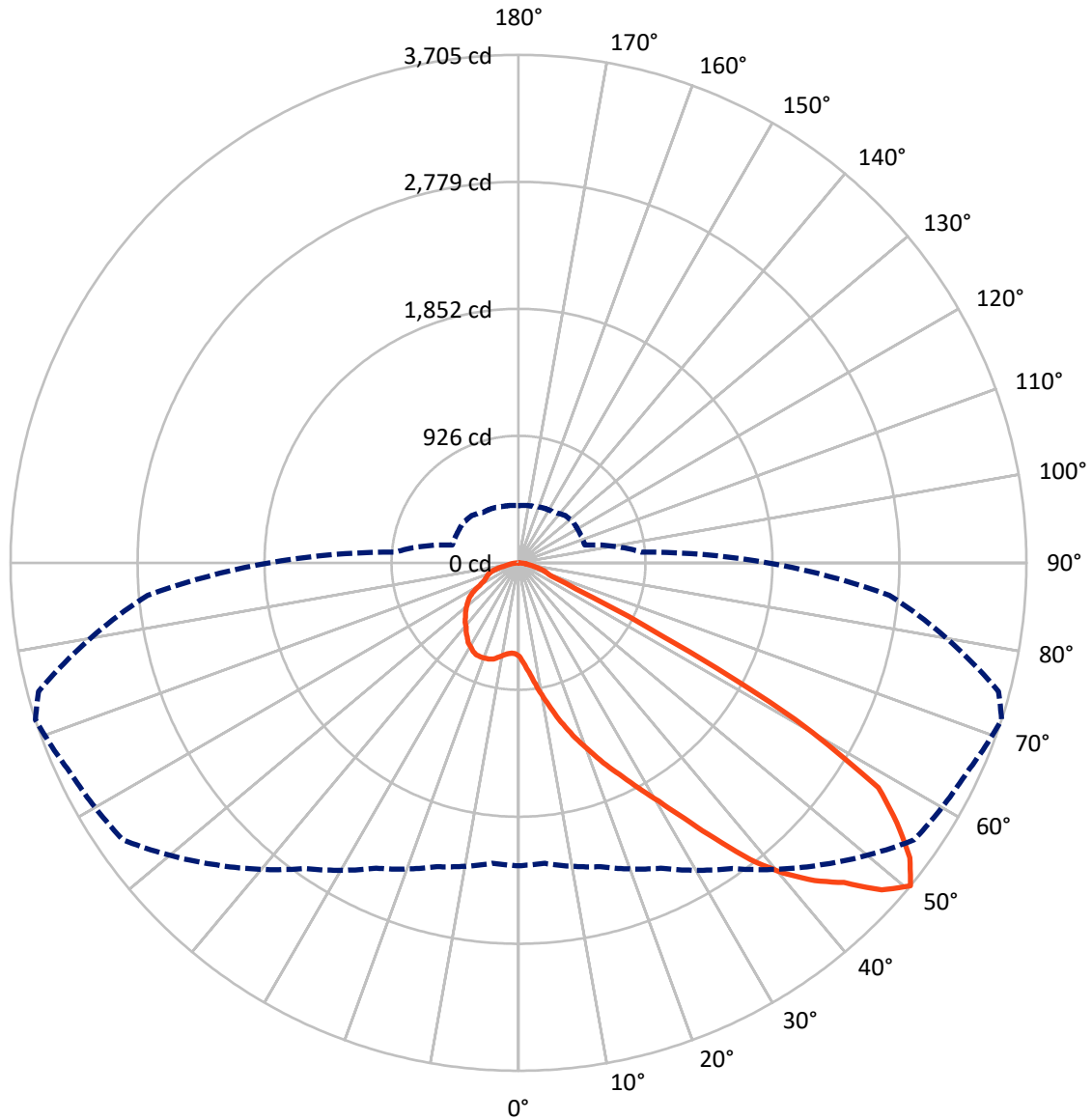
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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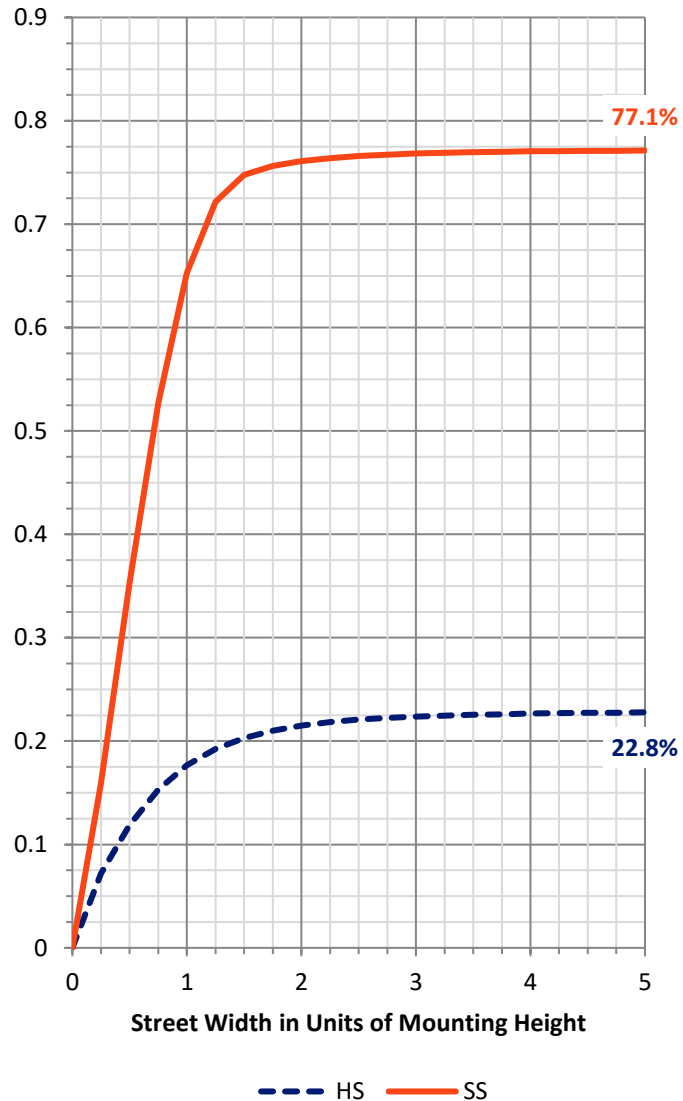
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1121.4	0.0	1121.4
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3773.2	0.0	3773.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4894.5	0.0	4894.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	1.6
10°-20°	299.6	6.1
20°-30°	580.9	11.9
30°-40°	962.4	19.7
40°-50°	1346.6	27.5
50°-60°	1136.0	23.2
60°-70°	346.3	7.1
70°-80°	121.5	2.5
80°-90°	21.1	0.4
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°	4894.5	100.0
0°-180°	4894.5	100.0

**Coefficient of Utilization**

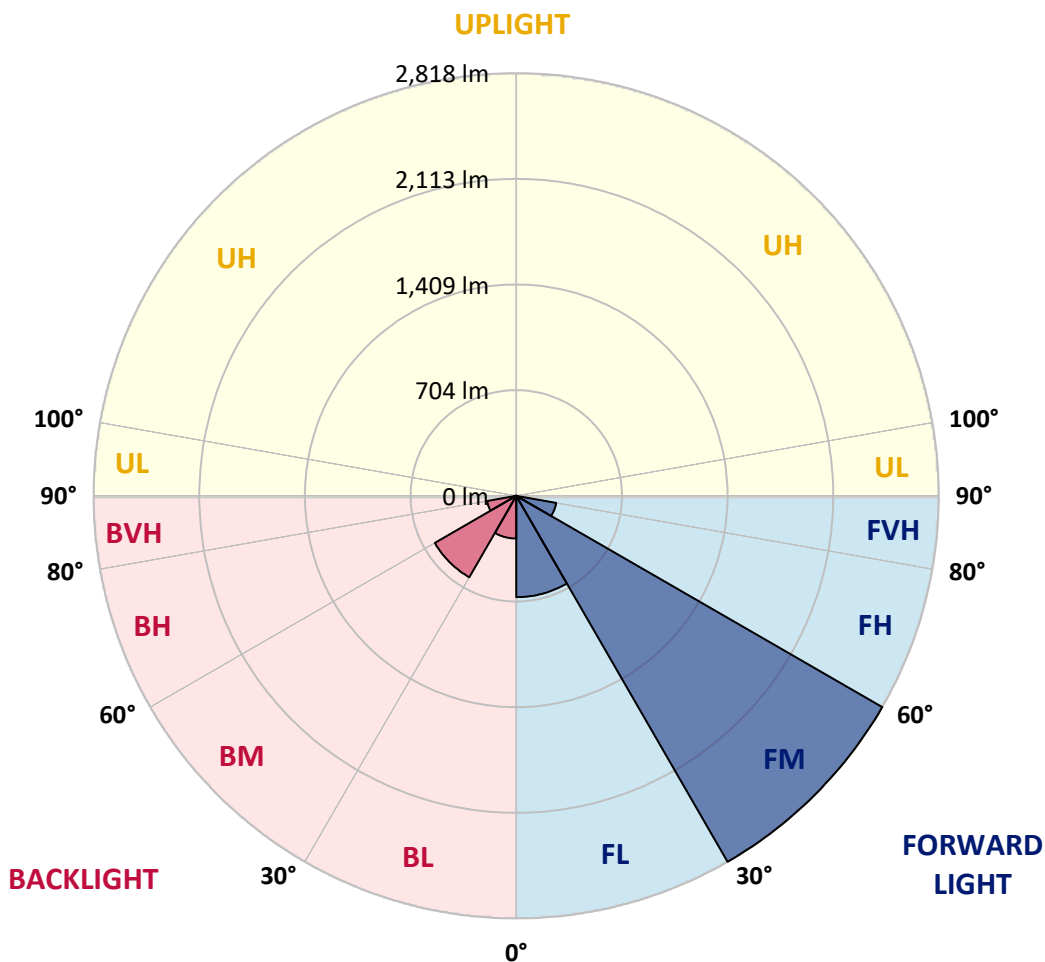


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.6	13.8			
FM (30°-60°)	2817.9	57.6			
FH (60°-80°)	270.2	5.5			G0/660
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	285.1	5.8	B1/500		
BM (30°-60°)	627.1	12.8	B1/1000		
BH (60°-80°)	197.6	4.0	B1/500		G1/500
BVH (80°-90°)	11.7	0.2			G1/100
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°	55°	65°	72°	75°	85°
0°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
2.5°	876.4	870.9	854.6	849.2	829.7	794.6	782.5	746.7	731.6	717.7	701.3
5°	1108.3	1082.9	1081.1	1050.2	1005.4	979.4	901.8	849.7	801.9	777.7	732.8
7.5°	1256.1	1256.7	1256.7	1231.3	1195.6	1129.6	1059.9	966.0	894.0	858.2	781.9
10°	1396.6	1384.5	1377.8	1375.4	1351.2	1287.0	1212.6	1096.2	997.5	955.7	818.9
12.5°	1496.0	1485.7	1500.8	1492.9	1475.4	1433.6	1363.4	1230.7	1107.2	1050.8	878.2
15°	1543.2	1550.5	1562.6	1584.4	1576.5	1560.8	1483.2	1368.8	1225.2	1161.7	930.9
17.5°	1615.9	1595.9	1610.4	1637.7	1659.5	1652.2	1608.0	1468.7	1342.1	1264.0	1001.8
20°	1666.8	1655.3	1662.5	1694.0	1710.4	1751.6	1728.6	1599.5	1454.2	1371.8	1085.3
22.5°	1812.1	1795.2	1771.5	1776.4	1782.4	1811.5	1817.0	1743.0	1584.4	1497.2	1164.6
25°	1991.4	1975.7	1947.8	1919.3	1901.8	1896.3	1915.1	1855.7	1709.1	1618.9	1250.1
27.5°	2188.8	2162.2	2144.6	2085.8	2038.6	2031.3	2022.3	1990.2	1857.0	1759.4	1346.4
30°	2380.8	2359.6	2336.0	2242.1	2193.1	2185.2	2140.4	2149.5	2017.4	1909.0	1455.4
32.5°	2526.2	2528.0	2474.1	2403.3	2357.2	2315.4	2299.0	2325.1	2223.3	2136.2	1577.1
35°	2643.6	2649.1	2597.7	2533.5	2483.8	2512.9	2505.6	2517.7	2469.3	2362.6	1718.8
37.5°	2758.1	2730.9	2675.7	2644.9	2618.8	2666.7	2728.4	2738.8	2747.9	2622.5	1883.6
40°	2776.9	2779.3	2747.2	2769.1	2736.4	2808.4	2952.0	2938.6	2975.6	2865.9	2062.3
42.5°	2750.3	2755.7	2768.5	2799.3	2878.1	2964.7	3177.9	3123.4	3168.2	3070.7	2236.1
45°	2706.7	2684.3	2700.0	2817.5	2953.8	3146.4	3384.4	3342.0	3327.4	3245.7	2443.2
47.5°	2498.3	2521.3	2570.4	2715.1	2919.9	3177.9	3530.9	3521.3	3564.8	3507.4	2631.6
50°	2209.4	2200.3	2294.8	2457.8	2721.8	3116.1	3523.1	3610.9	3704.8	3624.8	2715.8
52.5°	1654.6	1703.1	1784.2	1986.5	2363.3	2779.3	3351.1	3497.7	3573.9	3557.0	2647.9
55°	1045.9	1060.5	1109.6	1350.0	1689.2	2230.6	2872.6	3212.4	3348.7	3412.2	2585.5
57.5°	508.2	480.9	540.8	734.1	975.7	1500.2	2215.5	2798.1	3094.3	3209.4	2449.9
60°	265.3	275.5	299.2	368.2	504.5	778.9	1380.9	1864.8	2317.2	2494.1	1857.0
62.5°	219.9	223.5	239.2	273.7	335.5	448.2	705.0	909.1	1181.6	1340.9	1056.3
65°	186.5	188.4	205.3	228.3	267.7	315.5	362.8	379.8	459.7	471.8	375.5
67.5°	155.7	157.5	175.6	197.5	222.8	235.6	247.7	246.5	255.6	252.0	251.3
70°	120.0	121.8	140.5	163.5	176.3	169.0	206.6	215.0	218.6	221.7	226.5
72.5°	86.6	90.3	104.8	121.1	114.5	131.5	170.2	182.9	187.8	189.6	195.6
75°	63.0	64.2	67.8	63.0	72.7	91.5	120.0	135.7	141.7	143.5	152.6
77.5°	27.9	28.5	29.0	36.3	46.7	56.9	71.5	84.2	92.6	95.1	97.5
80°	14.6	15.1	18.8	24.8	33.3	41.8	52.1	59.4	64.8	65.4	67.8
82.5°	9.1	9.7	13.3	17.5	23.6	30.9	38.1	44.2	48.5	49.1	49.6
85°	4.2	5.5	7.9	10.9	15.7	20.0	20.6	17.5	18.8	19.4	18.2
87.5°	1.2	1.8	2.4	1.8	2.4	2.4	3.1	3.6	3.6	3.6	4.2
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°	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4	681.4
2.5°	692.3	686.8	665.6	657.7	637.1	640.8	629.8	629.3	626.9	626.2	625.6
5°	709.2	692.3	666.8	647.5	636.0	634.7	626.9	626.9	629.3	631.1	626.9
7.5°	737.1	717.7	674.7	656.5	646.2	644.4	638.9	634.7	640.2	638.4	633.5
10°	769.2	735.2	689.8	674.1	657.2	652.9	652.9	654.7	645.7	648.6	643.8
12.5°	804.9	759.5	709.2	691.1	671.0	668.6	667.4	654.1	659.0	656.5	644.4
15°	850.3	787.4	734.1	703.1	686.2	675.3	659.5	657.2	654.1	648.0	642.6
17.5°	899.4	817.6	745.6	706.8	681.4	673.5	661.4	648.6	639.6	640.8	636.6
20°	941.2	845.5	749.8	710.4	677.8	662.6	643.8	636.0	626.2	625.6	625.1
22.5°	990.9	883.1	755.8	700.7	666.8	651.1	638.4	624.4	617.8	609.3	613.6
25°	1050.2	897.6	757.1	695.3	659.0	631.1	624.4	609.3	606.9	594.8	597.2
27.5°	1093.2	905.5	747.4	678.3	640.8	619.6	607.5	596.6	592.3	583.3	580.8
30°	1150.8	917.6	726.8	657.2	622.6	599.0	591.7	589.3	577.1	567.5	566.3
32.5°	1216.2	925.4	713.5	635.3	603.8	585.7	589.3	577.8	562.7	554.2	551.8
35°	1268.2	928.5	680.1	610.5	591.1	579.6	575.3	572.9	551.2	543.2	537.2
37.5°	1347.5	921.8	652.3	593.0	577.1	572.9	569.3	553.0	528.1	516.6	508.2
40°	1440.3	920.0	616.5	568.1	563.8	568.7	557.8	532.4	497.8	485.1	479.0
42.5°	1529.3	932.7	594.1	554.8	549.4	551.2	536.0	497.8	480.9	473.6	463.9
45°	1678.3	959.3	557.2	534.2	531.7	530.6	512.4	472.4	462.8	453.7	451.8
47.5°	1812.7	941.8	533.6	513.0	515.4	508.7	470.0	457.3	446.4	437.3	434.3
50°	1820.6	900.0	500.3	496.7	497.2	485.8	448.8	440.3	426.3	420.3	416.1
52.5°	1779.4	831.5	469.4	470.6	472.4	453.7	422.7	416.7	405.2	396.7	394.3
55°	1663.7	725.0	439.1	444.0	448.8	413.0	403.4	388.2	379.1	367.0	367.6
57.5°	1465.7	583.9	396.7	404.6	414.9	375.5	368.2	349.5	336.1	326.4	325.3
60°	982.4	415.5	333.1	336.1	359.2	343.4	342.8	324.0	305.8	297.4	292.5
62.5°	579.6	317.3	287.7	284.6	284.1	293.2	308.3	301.6	278.0	261.7	266.5
65°	303.4	274.4	267.7	257.4	251.3	248.9	260.4	263.5	247.7	230.1	228.9
67.5°	254.9	254.9	249.5	245.9	237.4	227.1	219.9	210.2	207.7	202.9	196.8
70°	232.0	238.0	236.2	227.7	220.5	209.0	190.2	174.5	159.3	153.9	157.5
72.5°	202.3	208.4	208.4	204.1	194.4	176.9	158.7	140.5	127.8	118.1	116.9
75°	155.7	158.7	165.9	161.1	148.4	137.5	118.7	99.9	87.9	78.8	76.9
77.5°	99.4	104.1	104.1	103.6	94.5	84.2	72.0	58.7	49.6	43.0	41.2
80°	66.0	69.1	71.5	69.1	63.0	55.1	46.0	37.0	30.3	24.8	23.6
82.5°	48.5	52.1	53.9	51.4	45.4	39.4	32.7	26.1	19.4	15.1	13.9
85°	18.8	19.4	21.8	26.1	25.4	24.8	20.0	14.6	10.9	7.9	7.3
87.5°	4.9	4.2	4.9	4.9	4.2	3.6	3.6	3.6	3.6	1.8	2.4
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)