

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: P648263

Luminaire Tested: **GALN-SA2B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648263  
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-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 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: 5239.8 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

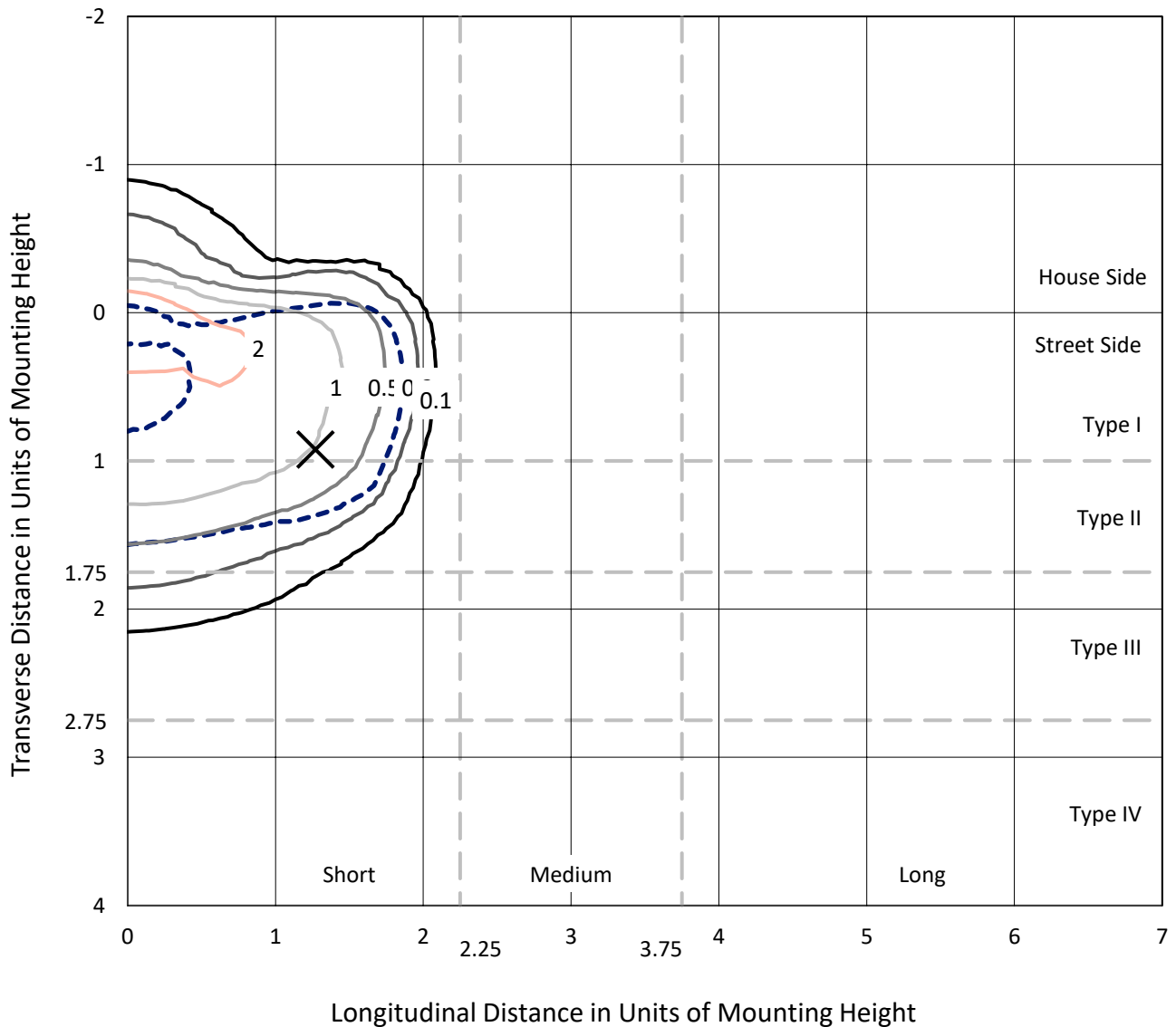
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

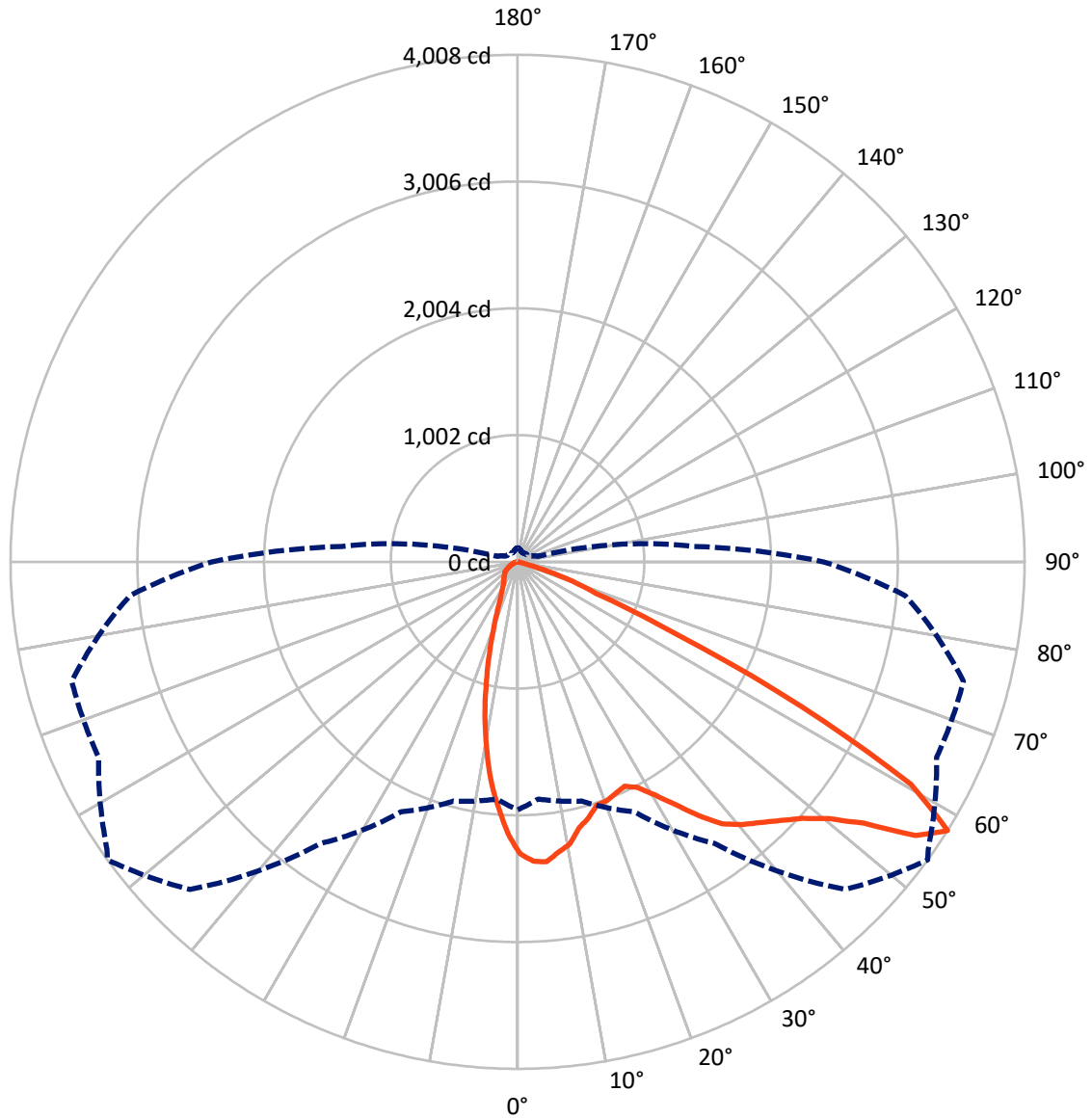
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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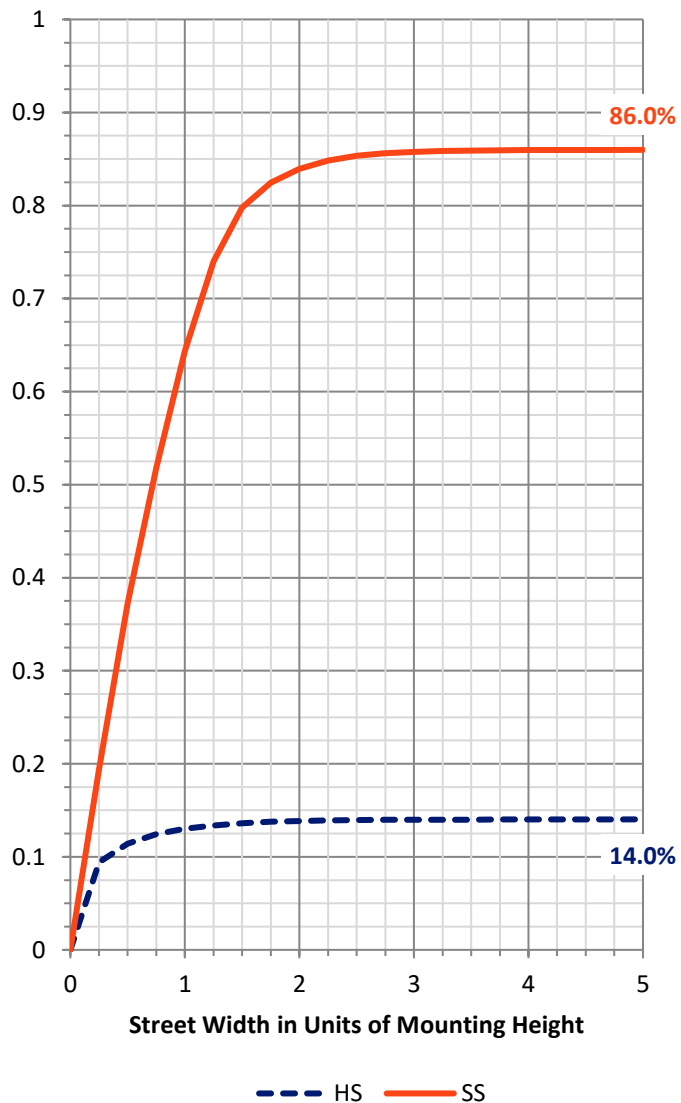
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	740.5	0.0	740.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	4499.4	0.0	4499.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	5239.8	0.0	5239.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.2	3.7
10°-20°	412.4	7.9
20°-30°	546.5	10.4
30°-40°	794.2	15.2
40°-50°	1177.7	22.5
50°-60°	1472.7	28.1
60°-70°	580.9	11.1
70°-80°	57.8	1.1
80°-90°	4.5	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°	5239.8	100.0
0°-180°	5239.8	100.0

**Coefficient of Utilization**

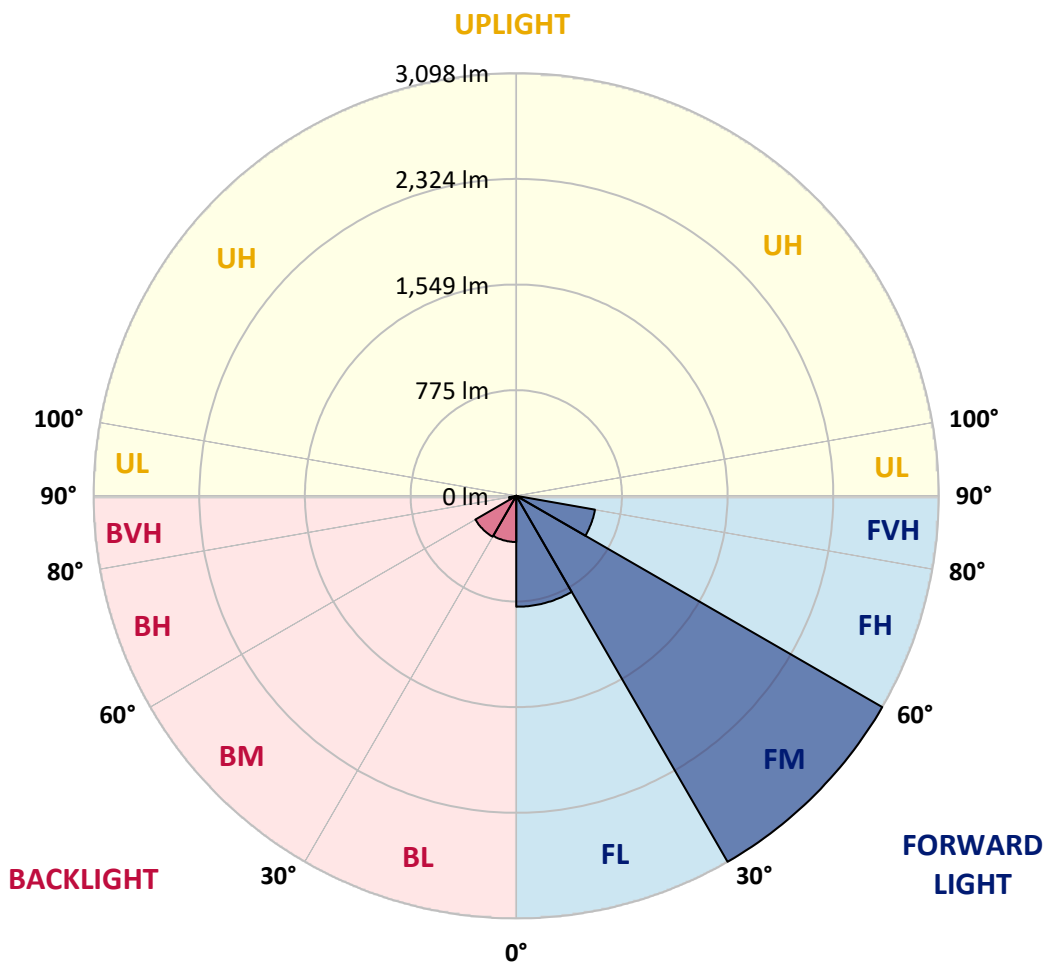


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.4	15.5			
FM (30°-60°)	3098.3	59.1			
FH (60°-80°)	585.6	11.2			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	338.7	6.5	B1/500		
BM (30°-60°)	346.3	6.6	B1/1000		
BH (60°-80°)	53.1	1.0	B0/110		G0/110
BVH (80°-90°)	2.5	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-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2
2.5°	2442.6	2417.4	2419.3	2410.5	2398.8	2407.6	2369.6	2378.4	2377.4	2325.7	2291.7
5°	2381.3	2408.6	2380.3	2403.7	2381.3	2405.7	2382.3	2364.7	2336.5	2298.5	2235.2
7.5°	2277.0	2250.7	2258.6	2287.8	2292.6	2347.2	2318.0	2340.4	2328.6	2253.6	2167.0
10°	2067.6	2061.7	2100.7	2139.6	2187.4	2245.9	2268.3	2255.6	2246.8	2218.6	2102.7
12.5°	1906.8	1923.4	1922.3	1986.7	2067.6	2100.7	2159.1	2157.2	2205.9	2153.3	2042.2
15°	1753.8	1762.6	1803.5	1843.5	1933.1	2027.6	2099.7	2109.5	2167.9	2130.9	1995.5
17.5°	1660.3	1647.6	1679.8	1727.5	1819.1	1942.9	2022.7	2046.1	2126.0	2118.2	1941.8
20°	1567.7	1567.7	1594.0	1650.6	1734.3	1873.6	2015.9	2009.1	2126.0	2103.6	1884.4
22.5°	1536.6	1552.1	1559.0	1601.8	1701.2	1821.0	1986.7	1999.4	2142.6	2096.8	1859.1
25°	1579.4	1559.0	1560.9	1595.0	1688.5	1795.7	1965.3	1993.5	2172.7	2130.9	1838.6
27.5°	1586.2	1606.7	1612.5	1635.9	1698.2	1803.5	2018.8	2076.4	2247.8	2210.8	1844.4
30°	1645.6	1666.1	1665.1	1705.1	1748.0	1866.8	2138.7	2150.4	2402.7	2311.1	1880.5
32.5°	1717.7	1739.2	1746.0	1792.8	1826.9	1982.8	2284.9	2315.0	2551.8	2469.0	1975.0
35°	1807.4	1799.6	1830.8	1877.6	1950.6	2152.3	2463.2	2513.8	2712.5	2673.6	2072.4
37.5°	1919.4	1909.7	1939.9	2015.9	2115.3	2353.1	2627.8	2660.9	2829.5	2863.6	2252.7
40°	1998.4	2002.3	2093.9	2196.2	2301.4	2544.0	2732.0	2764.2	2911.4	3040.9	2389.1
42.5°	2129.9	2154.3	2264.4	2389.1	2499.2	2687.3	2816.8	2848.0	2949.3	3183.2	2573.3
45°	2320.9	2310.2	2432.0	2571.3	2693.1	2836.3	2917.1	2906.5	2971.7	3324.5	2689.2
47.5°	2566.4	2568.4	2649.2	2768.1	2894.8	2965.9	3029.3	2991.2	3018.5	3473.5	2844.1
50°	2734.0	2748.6	2813.9	2935.7	2999.0	3108.1	3189.0	3165.7	3156.9	3563.2	2941.6
52.5°	2776.9	2820.8	2855.8	3007.8	3155.9	3328.4	3431.7	3481.3	3325.4	3593.3	3065.3
55°	2453.4	2492.4	2616.1	2824.6	3215.3	3677.2	3819.4	3820.4	3545.7	3727.9	3152.0
57.5°	1961.3	1882.4	1958.4	2179.6	2718.4	3662.6	4008.4	3962.7	3655.7	3648.9	3077.0
60°	1356.3	1336.8	1341.7	1429.4	1881.5	2913.3	3572.0	3631.4	3366.4	3162.7	2435.8
62.5°	1074.7	1058.1	1036.7	1027.0	1168.2	1815.2	2519.6	2603.5	2354.0	2051.0	1444.0
65°	841.8	832.1	835.0	874.0	873.0	1029.9	1377.7	1343.6	1075.7	795.1	454.1
67.5°	568.1	582.6	594.4	712.2	772.7	717.1	665.5	646.0	349.8	147.1	100.4
70°	319.6	321.5	334.2	445.3	586.5	556.3	458.9	458.9	174.4	53.6	57.5
72.5°	174.4	168.6	156.8	191.9	261.1	265.0	204.6	178.3	51.7	35.1	32.2
75°	84.8	83.8	72.1	59.4	56.5	46.7	36.0	33.1	23.4	22.4	19.5
77.5°	17.5	16.6	8.8	8.8	9.7	10.7	13.6	13.6	16.6	16.6	13.6
80°	0.0	0.0	0.9	3.9	6.8	9.7	11.7	11.7	13.6	13.6	10.7
82.5°	0.0	0.0	0.9	2.9	5.9	8.8	10.7	11.7	13.6	14.6	11.7
85°	0.0	0.0	0.0	2.0	4.9	6.8	5.9	5.9	4.9	3.9	2.0
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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2	2308.2
2.5°	2274.1	2272.2	2227.3	2202.0	2156.2	2116.3	2084.1	2060.7	2060.7	2046.1	2032.5
5°	2209.8	2193.3	2097.7	2036.3	1949.7	1885.4	1841.5	1807.4	1753.8	1768.4	1710.9
7.5°	2129.9	2088.0	1961.3	1867.8	1748.0	1656.4	1562.9	1480.0	1400.2	1364.1	1383.6
10°	2044.2	1971.1	1800.6	1652.5	1503.4	1335.8	1226.7	1094.2	1012.3	1007.5	986.0
12.5°	1953.6	1870.7	1663.2	1458.6	1262.7	1061.0	894.4	770.7	715.2	653.8	665.5
15°	1885.4	1762.6	1510.3	1263.7	1003.6	799.9	632.4	536.8	484.3	469.6	464.8
17.5°	1811.3	1679.8	1354.4	1056.2	787.3	575.8	455.0	409.2	388.8	388.8	385.9
20°	1734.3	1586.2	1199.4	863.3	590.5	429.7	364.4	349.8	348.8	347.8	347.8
22.5°	1683.7	1479.1	1059.1	685.9	445.3	344.0	316.6	310.9	314.7	326.4	326.4
25°	1630.0	1375.8	904.2	529.1	344.9	295.2	279.6	283.5	293.3	304.0	300.1
27.5°	1575.5	1308.5	758.0	415.1	282.6	258.2	252.4	261.1	271.9	281.6	278.7
30°	1562.9	1236.4	619.7	314.7	242.6	225.0	228.9	236.8	247.5	251.3	255.3
32.5°	1582.4	1179.9	507.6	258.2	211.4	206.6	206.6	210.5	217.3	226.1	223.2
35°	1637.9	1147.8	401.4	224.1	193.9	189.0	188.1	191.9	195.8	198.8	195.8
37.5°	1722.6	1122.4	328.4	198.8	182.2	174.4	172.5	171.5	175.4	176.3	178.3
40°	1830.8	1136.1	278.7	183.1	170.5	161.8	155.9	155.9	155.9	158.8	159.8
42.5°	1947.7	1154.6	240.7	174.4	159.8	149.1	143.2	141.3	143.2	147.1	146.2
45°	2070.5	1190.6	216.3	160.7	150.0	136.4	128.6	126.7	131.5	139.3	138.4
47.5°	2185.4	1242.3	197.8	152.0	140.3	127.6	117.9	116.0	124.7	135.5	136.4
50°	2300.5	1332.0	191.0	145.2	133.5	118.9	110.1	108.1	117.9	131.5	134.4
52.5°	2432.9	1428.3	186.1	136.4	125.7	112.0	102.3	100.4	111.1	128.6	129.6
55°	2519.6	1510.3	182.2	120.8	111.1	101.3	93.6	92.6	104.2	119.9	123.7
57.5°	2418.3	1396.2	168.6	105.2	94.5	89.7	82.8	82.8	92.6	107.2	110.1
60°	1833.7	918.8	119.9	84.8	79.9	77.0	74.1	74.1	81.8	92.6	93.6
62.5°	1073.7	494.9	77.0	68.2	68.2	65.3	60.4	60.4	68.2	74.1	75.0
65°	318.6	158.8	62.3	58.5	57.5	52.6	47.8	46.7	52.6	55.5	54.6
67.5°	91.6	73.1	51.7	48.7	47.8	39.9	37.0	36.0	37.0	35.1	34.1
70°	54.6	49.7	39.9	41.0	36.0	29.2	26.3	25.4	23.4	20.4	18.5
72.5°	30.2	30.2	29.2	31.2	25.4	19.5	16.6	13.6	10.7	8.8	7.8
75°	18.5	19.5	20.4	21.5	16.6	12.7	10.7	6.8	3.9	2.0	2.0
77.5°	12.7	13.6	14.6	15.6	13.6	11.7	8.8	4.9	0.9	0.0	0.0
80°	9.7	10.7	12.7	13.6	14.6	15.6	11.7	4.9	0.9	0.0	0.0
82.5°	10.7	11.7	14.6	13.6	13.6	13.6	10.7	4.9	0.9	0.0	0.0
85°	2.0	2.9	4.9	4.9	6.8	8.8	6.8	2.0	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)