

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: P648262

Luminaire Tested: **GALN-SA2B-835-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648262  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8943.4 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

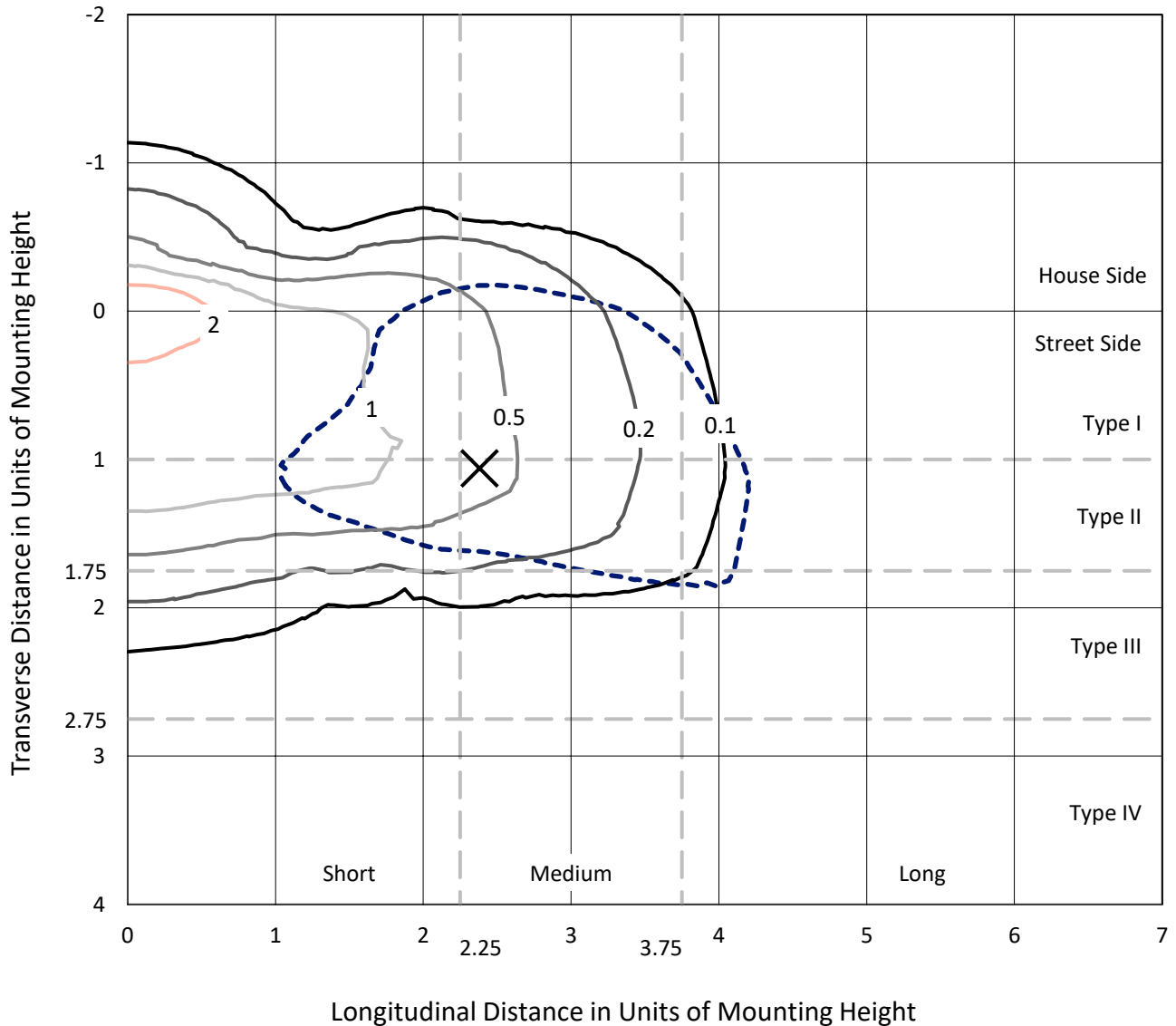
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

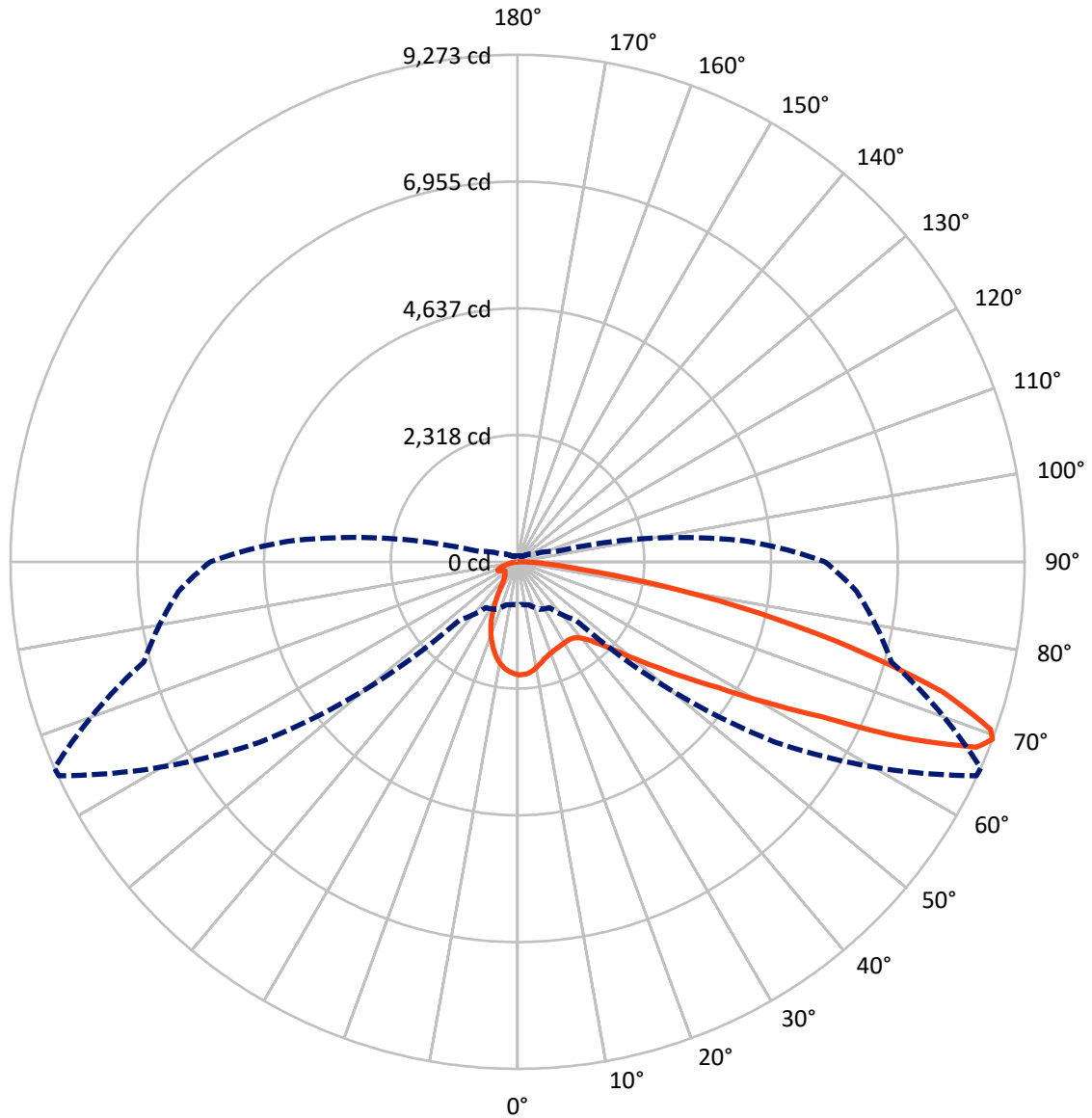
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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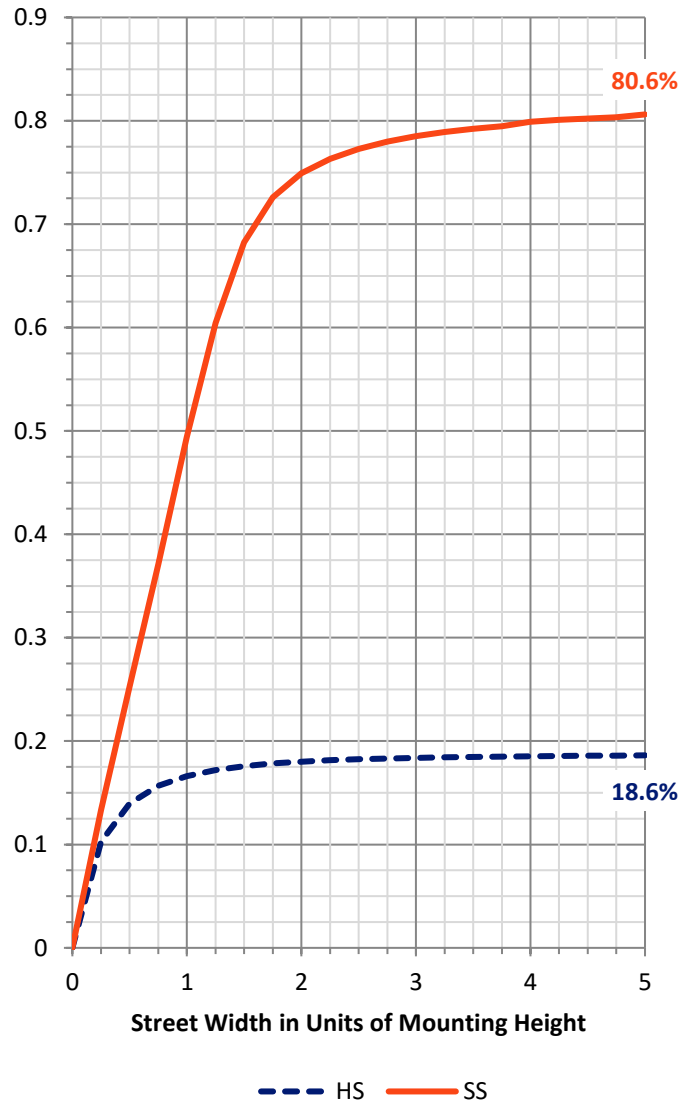
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1681.9	0.0	1681.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	7261.5	0.0	7261.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	8943.4	0.0	8943.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.3	2.0
10°-20°	425.4	4.8
20°-30°	579.1	6.5
30°-40°	778.2	8.7
40°-50°	1162.0	13.0
50°-60°	1848.4	20.7
60°-70°	2273.4	25.4
70°-80°	1479.2	16.5
80°-90°	218.4	2.4
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°	8943.4	100.0
0°-180°	8943.4	100.0

**Coefficient of Utilization**

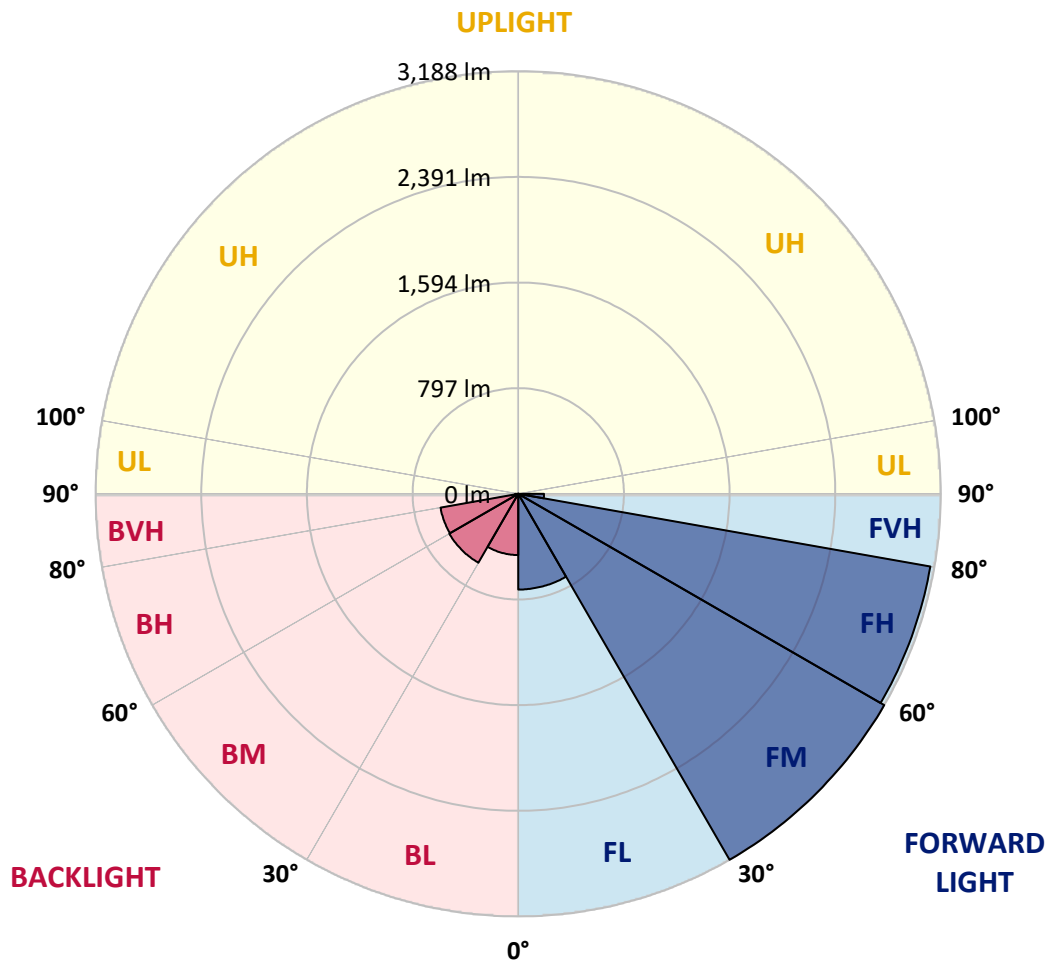


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.2	8.1			
FM (30°-60°)	3188.1	35.6			
FH (60°-80°)	3157.1	35.3			G2/5000
FVH (80°-90°)	194.2	2.2			G2/225
BL (0°-30°)	461.7	5.2	B1/500		
BM (30°-60°)	600.5	6.7	B1/1000		
BH (60°-80°)	595.5	6.7	B2/1000		G2/1000
BVH (80°-90°)	24.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	1993.0	2000.9	2009.8	2019.7	2038.5	2049.0	2056.4	2064.8	2065.8	2070.3	2066.8
5°	1845.8	1855.3	1868.6	1887.5	1915.7	1959.8	2005.3	2042.5	2047.0	2067.7	2073.7
7.5°	1723.1	1728.5	1739.4	1769.6	1809.7	1858.8	1925.2	2000.4	2011.3	2060.9	2078.2
10°	1623.0	1628.5	1641.3	1672.6	1712.2	1773.6	1846.4	1945.4	1954.4	2039.6	2079.2
12.5°	1548.2	1553.2	1567.0	1597.7	1643.3	1700.8	1781.0	1886.0	1898.9	2011.3	2069.7
15°	1491.3	1500.7	1512.1	1537.3	1585.3	1640.9	1718.6	1831.5	1841.9	1981.6	2063.3
17.5°	1467.0	1471.5	1479.4	1502.7	1537.8	1592.3	1670.5	1788.9	1801.3	1960.8	2061.8
20°	1468.0	1472.4	1473.9	1486.8	1512.1	1559.1	1636.4	1755.3	1770.1	1942.5	2064.3
22.5°	1501.6	1502.2	1496.7	1492.2	1502.2	1541.3	1612.1	1730.0	1747.3	1934.6	2066.3
25°	1553.7	1562.6	1554.6	1533.9	1515.5	1534.4	1602.7	1716.1	1732.5	1923.1	2063.8
27.5°	1637.9	1639.4	1632.9	1604.7	1557.2	1543.3	1598.7	1705.7	1719.6	1914.7	2051.4
30°	1750.8	1746.3	1740.4	1709.2	1634.4	1577.4	1607.2	1696.3	1710.7	1902.4	2036.6
32.5°	1865.2	1879.0	1873.6	1837.0	1739.9	1643.8	1634.4	1695.4	1707.2	1892.9	2020.2
35°	1986.5	1993.0	2018.7	1999.9	1900.3	1751.3	1685.4	1710.7	1720.1	1893.5	2008.8
37.5°	2081.6	2099.0	2159.4	2175.7	2082.2	1893.5	1768.1	1754.2	1758.2	1917.7	2013.2
40°	2196.5	2226.2	2304.0	2370.8	2309.5	2078.2	1908.8	1835.0	1840.0	1976.1	2042.5
42.5°	2342.1	2362.9	2467.5	2558.1	2548.2	2322.3	2079.2	1967.2	1969.7	2092.5	2124.2
45°	2512.5	2542.2	2659.6	2795.8	2819.1	2598.7	2325.3	2167.3	2165.9	2273.3	2276.7
47.5°	2730.4	2748.8	2865.2	3013.8	3107.8	2945.9	2624.0	2454.5	2438.7	2536.8	2508.6
50°	2931.0	2959.7	3047.9	3210.4	3444.7	3352.5	3016.7	2827.0	2789.9	2881.5	2833.9
52.5°	3015.3	3045.4	3119.7	3321.3	3733.3	3878.5	3515.4	3271.3	3209.4	3279.7	3262.4
55°	2869.1	2908.2	2977.6	3222.7	3860.2	4485.2	4188.0	3784.9	3739.8	3709.6	3714.6
57.5°	2476.4	2513.5	2607.1	2877.5	3708.6	4925.5	5148.4	4445.1	4348.5	4209.3	4233.1
60°	1885.0	1908.2	1956.8	2256.4	3259.4	5039.9	6238.9	5279.6	5218.2	4707.1	4723.9
62.5°	1338.7	1365.0	1398.7	1548.2	2386.2	4717.5	7092.8	6445.0	6225.6	5222.6	5206.3
65°	1087.1	1069.3	1109.9	1179.7	1400.2	3656.1	7285.0	8062.6	7760.4	5901.6	5674.8
67.5°	894.0	875.2	915.2	1039.6	1064.8	2122.2	6592.5	9112.6	9052.1	6640.2	6150.8
69°	791.5	781.5	816.7	958.3	1022.2	1507.1	5743.1	9258.6	9273.0	7075.4	6224.1
70°	713.2	717.1	751.4	917.2	1002.9	1242.6	4908.6	9057.0	9178.9	7292.9	6144.8
72.5°	525.0	533.4	581.0	759.7	984.6	1054.5	2921.1	7911.0	8126.4	7305.8	5621.3
75°	367.0	363.0	405.1	572.1	930.1	1045.0	1715.6	6118.1	6362.3	6314.7	4723.4
77.5°	240.2	246.6	280.3	404.1	782.5	1037.1	1118.4	4340.6	4499.0	4223.2	2793.8
80°	169.4	168.9	187.7	275.9	580.4	996.5	915.8	2735.9	2695.8	1659.6	828.6
82.5°	97.1	104.0	125.8	194.2	388.3	877.1	842.4	1308.5	1194.6	473.0	279.8
85°	53.9	56.5	74.8	117.4	226.8	660.7	735.5	595.3	561.6	197.6	120.3
87.5°	17.3	18.8	31.2	59.4	103.0	312.0	416.6	274.9	253.6	71.3	48.5
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°	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3	2065.3
2.5°	2068.3	2074.2	2058.4	2043.0	2029.1	2009.8	1992.5	1978.1	1968.2	1966.7	1961.8
5°	2075.2	2075.7	2045.5	2004.9	1965.3	1921.6	1876.6	1844.4	1814.2	1797.4	1788.9
7.5°	2080.1	2075.7	2021.2	1955.3	1879.0	1799.8	1720.6	1657.2	1608.1	1588.9	1596.2
10°	2078.2	2064.3	1984.6	1879.0	1768.1	1649.8	1535.9	1446.7	1365.0	1322.9	1323.9
12.5°	2067.3	2044.5	1930.1	1793.4	1630.4	1472.0	1297.6	1177.2	1082.7	1026.7	1009.4
15°	2057.9	2018.3	1866.2	1677.0	1474.4	1248.1	1035.6	887.1	807.8	763.7	763.2
17.5°	2047.9	1993.0	1796.4	1553.7	1295.2	1003.9	781.0	667.7	630.5	634.9	627.5
20°	2037.5	1963.3	1723.5	1416.4	1076.7	748.9	584.9	538.9	549.3	569.6	572.5
22.5°	2025.7	1931.6	1645.3	1265.4	846.9	563.6	474.5	467.5	494.3	525.9	530.4
25°	2007.4	1892.0	1546.7	1107.4	653.3	454.1	415.5	420.5	446.7	473.5	476.5
27.5°	1981.6	1842.9	1447.2	910.3	490.8	389.8	379.9	386.3	399.2	415.5	419.5
30°	1946.9	1787.4	1332.7	739.9	393.2	357.6	353.6	357.1	364.5	371.5	373.4
32.5°	1912.2	1734.0	1217.4	566.6	350.6	336.3	332.3	332.3	332.3	333.3	333.8
35°	1880.1	1683.4	1093.5	441.3	328.4	319.5	314.0	308.0	307.1	303.6	303.6
37.5°	1862.2	1637.3	961.8	369.5	312.0	305.6	298.2	288.2	282.8	283.3	282.3
40°	1865.7	1607.2	842.0	328.9	298.6	291.7	280.3	269.0	265.4	265.4	264.5
42.5°	1904.8	1597.2	727.1	307.6	285.8	277.9	263.5	253.1	251.1	250.6	251.6
45°	1994.9	1621.5	624.1	293.7	274.9	263.0	248.6	239.2	237.2	237.2	236.8
47.5°	2170.8	1700.3	550.2	284.8	266.9	251.6	236.8	227.3	223.9	222.8	222.8
50°	2444.1	1871.1	495.2	276.9	257.1	241.2	225.8	214.9	209.5	209.0	208.5
52.5°	2824.0	2137.6	473.9	270.9	246.2	230.3	213.4	203.0	196.1	194.7	193.6
55°	3268.3	2509.5	503.2	266.5	234.7	217.9	200.6	189.7	183.2	180.2	179.8
57.5°	3782.9	2956.3	614.1	260.5	224.3	204.5	187.7	176.8	169.9	166.4	165.4
60°	4245.0	3415.4	807.8	257.1	215.5	190.2	172.9	162.9	156.5	153.1	152.5
62.5°	4752.7	3853.2	1039.1	266.5	211.5	176.3	158.9	150.1	144.6	141.2	141.2
65°	5295.0	4291.5	1192.1	298.2	217.4	165.4	144.2	136.7	131.8	129.3	128.8
67.5°	5660.5	4443.1	982.1	330.8	232.3	153.5	129.7	123.8	120.8	118.4	118.4
69°	5620.8	4251.5	724.6	339.3	236.8	147.6	121.8	117.4	113.4	112.4	111.4
70°	5495.6	4033.0	607.2	333.8	233.3	142.1	116.9	111.4	108.0	107.0	106.5
72.5°	4894.8	3497.6	452.2	290.3	198.6	123.3	103.5	98.6	95.6	94.1	94.1
75°	4066.7	2858.7	353.1	230.8	155.5	104.0	88.6	84.7	82.2	81.2	80.7
77.5°	2279.2	1596.2	253.6	180.8	117.8	84.2	74.3	70.9	68.4	67.3	67.3
80°	634.9	456.2	149.1	119.3	80.3	63.9	59.0	56.5	53.0	50.5	52.0
82.5°	239.2	197.6	85.2	71.8	51.1	42.6	41.1	39.2	37.7	34.1	34.1
85°	116.4	96.1	54.5	38.1	28.3	22.3	21.3	20.3	19.3	16.8	17.3
87.5°	40.1	42.6	23.8	13.9	8.5	5.5	4.5	2.5	2.5	2.5	2.5
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)