

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: P652221

Luminaire Tested: **GALN-SA2B-840-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652221  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7876 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

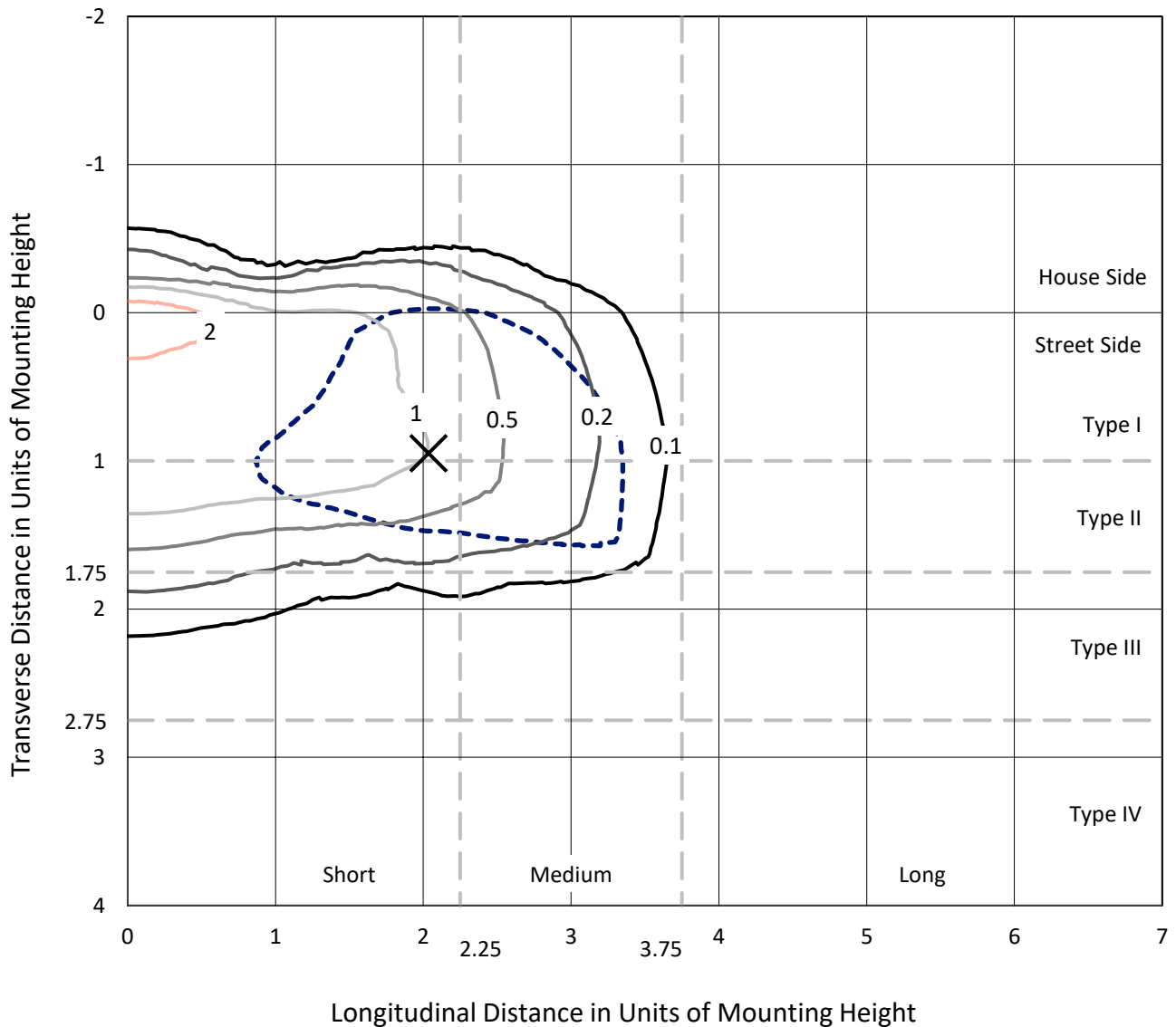
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

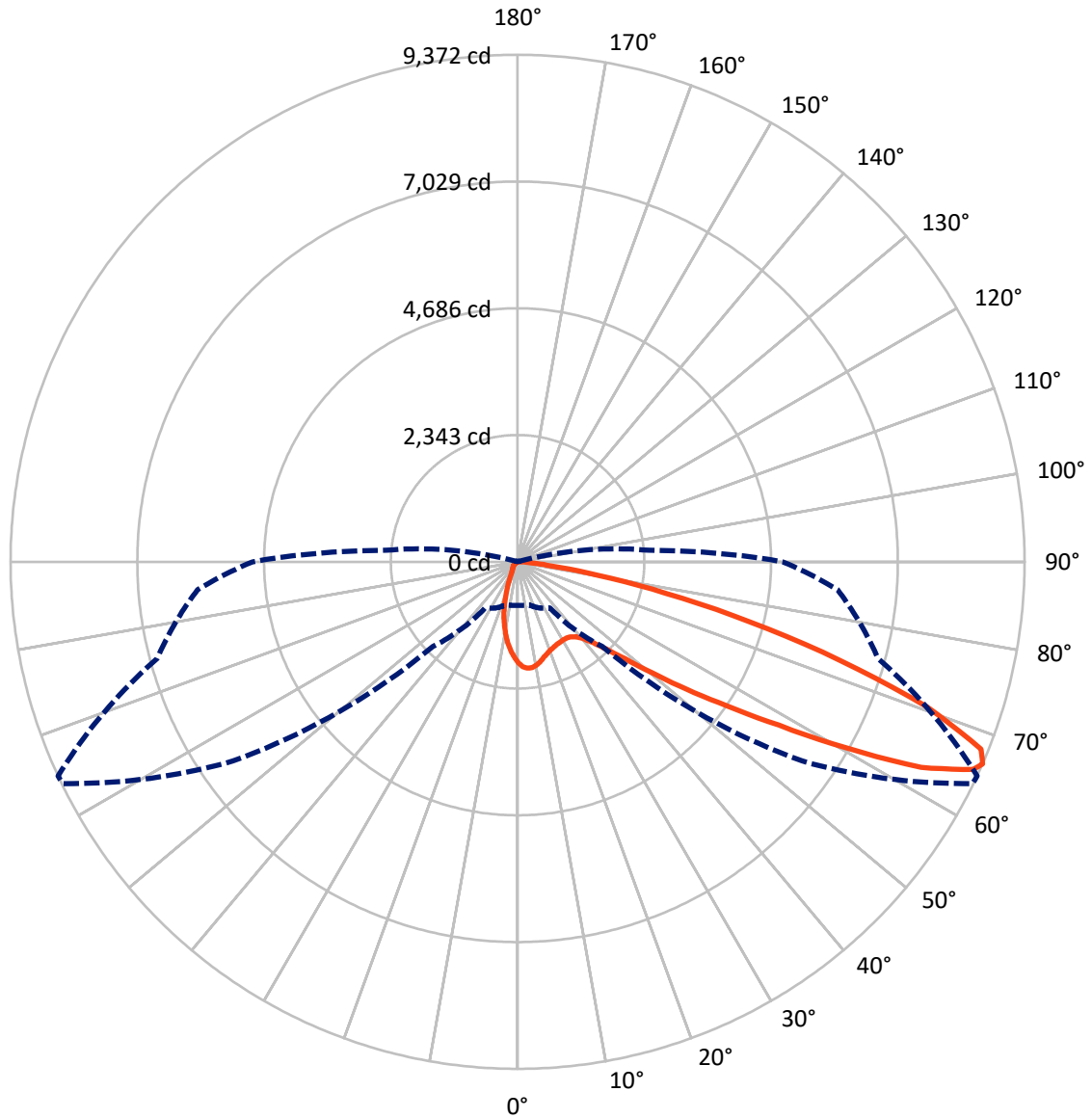
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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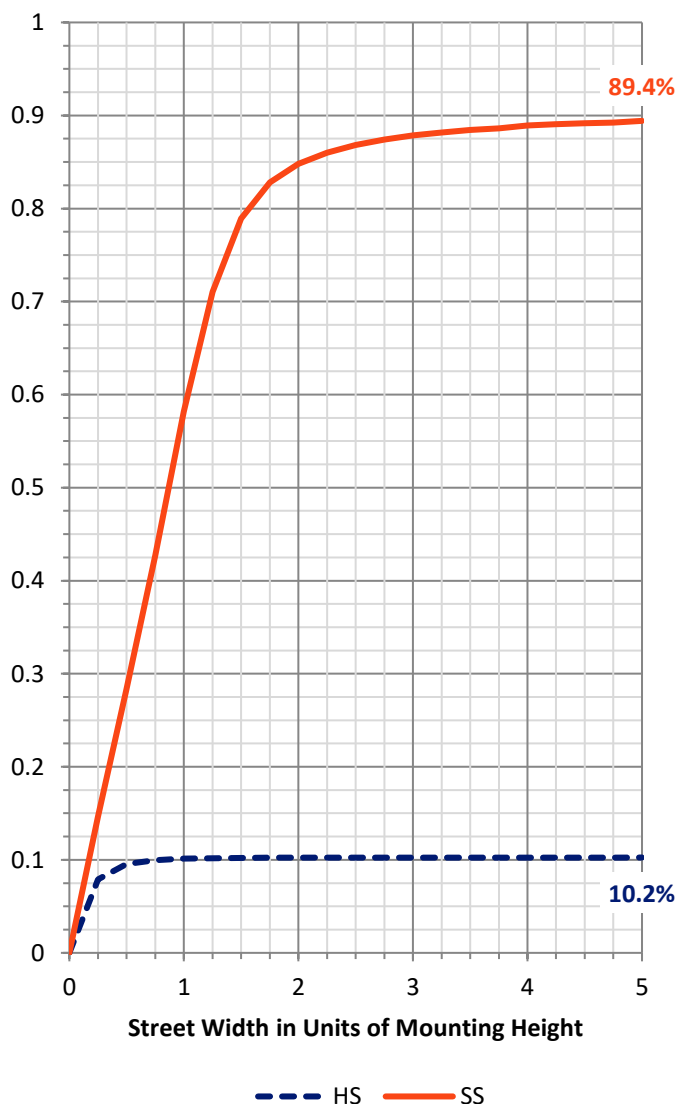
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	814.5	0.0	814.5
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	7061.5	0.0	7061.5
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	7876.0	0.0	7876.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.7	1.9
10°-20°	332.8	4.2
20°-30°	476.8	6.1
30°-40°	696.3	8.8
40°-50°	1167.7	14.8
50°-60°	1948.6	24.7
60°-70°	2068.4	26.3
70°-80°	936.8	11.9
80°-90°	95.9	1.2
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°	7876.0	100.0
0°-180°	7876.0	100.0

**Coefficient of Utilization**



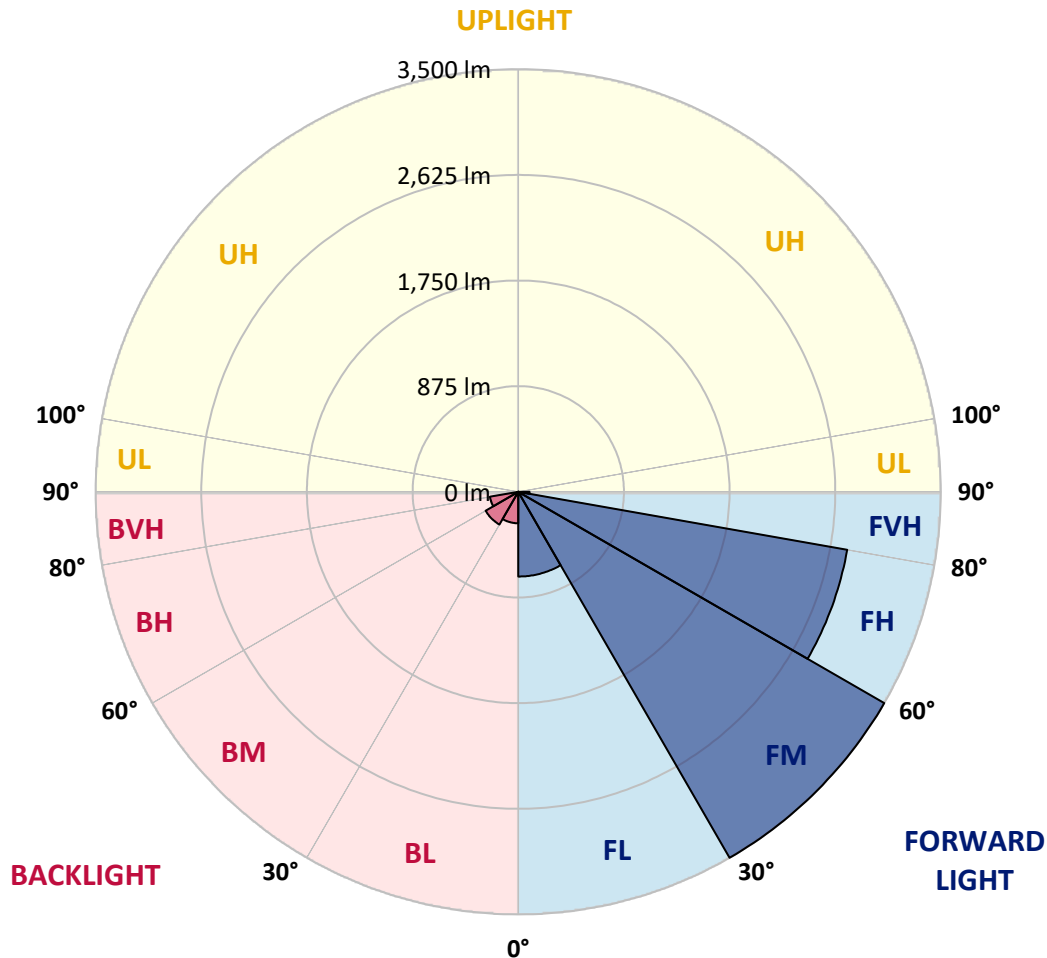
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.8	8.9			
FM (30°-60°)	3500.3	44.4			
FH (60°-80°)	2766.6	35.1			G2/5000
FVH (80°-90°)	92.8	1.2			G1/100
BL (0°-30°)	260.5	3.3	B1/500		
BM (30°-60°)	312.4	4.0	B1/1000		
BH (60°-80°)	238.5	3.0	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7
2.5°	1968.2	1970.4	1973.0	1976.8	1979.4	1971.4	1960.2	1947.5	1944.8	1917.6	1884.7
5°	1862.9	1866.1	1889.5	1902.3	1931.0	1957.1	1973.6	1975.7	1974.6	1949.1	1896.4
7.5°	1712.9	1721.9	1744.8	1767.1	1820.8	1870.3	1928.8	1969.8	1972.5	1965.6	1900.2
10°	1591.1	1596.9	1608.6	1652.7	1697.5	1773.0	1854.9	1932.0	1938.4	1966.1	1897.0
12.5°	1495.9	1504.4	1518.8	1552.7	1606.5	1677.8	1770.9	1874.6	1887.9	1956.0	1887.9
15°	1429.4	1433.6	1447.9	1481.5	1533.6	1599.6	1693.8	1814.5	1826.2	1942.7	1886.3
17.5°	1398.0	1402.8	1412.9	1439.5	1482.5	1543.7	1635.7	1766.1	1781.0	1934.2	1892.2
20°	1406.5	1410.7	1411.3	1425.1	1454.3	1506.0	1593.2	1720.9	1740.0	1928.8	1901.8
22.5°	1454.8	1455.4	1449.0	1442.7	1452.7	1490.0	1567.1	1692.2	1711.9	1927.8	1912.9
25°	1527.3	1528.9	1518.2	1495.9	1475.6	1494.8	1561.3	1673.5	1691.1	1925.1	1919.8
27.5°	1627.3	1626.7	1623.6	1586.3	1528.9	1516.1	1566.0	1663.4	1678.3	1917.6	1922.4
30°	1767.1	1762.9	1756.0	1714.0	1626.2	1567.6	1586.3	1657.0	1670.9	1907.1	1915.5
32.5°	1904.9	1920.8	1919.8	1879.9	1770.3	1659.7	1628.3	1665.5	1675.6	1900.2	1905.5
35°	2065.6	2065.1	2106.0	2091.1	1962.9	1777.3	1700.1	1693.8	1701.7	1904.9	1900.7
37.5°	2214.5	2228.3	2292.1	2307.6	2190.6	1943.2	1801.8	1754.4	1757.0	1937.3	1912.3
40°	2400.1	2426.8	2522.0	2573.5	2470.4	2189.5	1951.7	1865.6	1866.1	2017.1	1956.5
42.5°	2639.6	2681.5	2770.4	2856.5	2801.3	2481.0	2176.8	2041.6	2040.6	2157.6	2057.6
45°	2930.5	2959.8	3060.8	3197.6	3162.4	2888.0	2504.4	2314.5	2300.7	2387.9	2236.9
47.5°	3181.6	3221.5	3324.1	3480.1	3639.6	3384.8	2896.0	2689.5	2680.5	2754.4	2544.4
50°	3291.2	3326.3	3434.3	3652.9	4039.7	4037.0	3479.0	3236.9	3221.5	3261.4	3019.9
52.5°	3171.0	3204.0	3313.0	3585.4	4228.0	4831.7	4323.7	3923.7	3905.0	3854.0	3588.0
55°	2759.2	2786.4	2947.5	3260.3	4155.6	5361.5	5487.6	4772.2	4699.8	4501.4	4231.2
57.5°	2196.9	2183.2	2283.1	2646.5	3731.1	5539.2	6682.3	5829.1	5699.9	5061.0	4775.4
60°	1522.5	1565.0	1605.5	1844.8	2805.5	5231.2	7425.5	7157.9	6987.7	5611.6	5296.6
62.5°	1119.2	1147.5	1174.0	1284.6	1763.9	4176.9	7556.9	8522.9	8371.8	6196.2	5794.0
65°	885.2	887.3	897.9	1007.0	1162.3	2716.2	6925.5	9292.6	9253.9	6758.9	5995.7
66°	806.4	806.9	823.4	940.5	1043.2	2211.8	6419.6	9351.2	9372.4	6894.1	5936.6
67.5°	704.8	702.7	726.6	845.3	950.1	1594.8	5514.2	9113.9	9240.0	6997.8	5724.4
70°	546.3	543.6	572.9	709.1	875.1	1063.9	3665.2	7825.5	8028.8	6785.6	5064.7
72.5°	363.8	366.0	416.0	559.6	835.2	936.8	2204.9	5953.1	6240.3	5603.6	3984.3
75°	212.3	216.0	272.9	416.0	725.0	893.1	1248.0	4244.9	4428.5	3869.4	2482.1
77.5°	111.2	112.8	152.6	274.5	555.9	829.3	831.4	2711.9	2798.1	1880.5	982.5
80°	59.0	57.4	81.9	165.4	382.5	728.2	674.5	1435.8	1492.7	558.5	248.4
82.5°	22.4	24.5	43.6	108.5	226.1	522.9	580.9	634.6	614.9	122.9	104.3
85°	4.3	5.3	18.6	64.3	113.9	218.7	428.2	311.2	288.3	46.3	60.1
87.5°	0.5	1.1	5.3	15.4	16.5	73.9	126.6	86.2	74.5	17.0	25.0
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°	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7	1867.7
2.5°	1868.8	1854.4	1806.5	1759.2	1710.8	1667.1	1637.3	1588.9	1576.7	1559.1	1549.0
5°	1865.0	1831.5	1739.4	1638.9	1545.3	1444.2	1367.1	1292.6	1252.8	1232.6	1225.1
7.5°	1854.4	1801.2	1657.5	1500.1	1350.1	1199.0	1067.6	967.7	903.2	859.1	829.3
10°	1833.1	1759.7	1562.3	1345.9	1119.2	919.7	753.3	626.6	528.7	497.9	499.0
12.5°	1811.3	1713.5	1455.9	1174.5	893.6	642.1	465.5	365.4	318.7	303.2	300.0
15°	1791.1	1669.3	1351.7	1008.6	665.5	416.0	300.0	264.9	252.1	249.5	248.9
17.5°	1780.5	1628.3	1240.5	818.7	464.4	282.5	240.4	230.9	227.2	224.5	223.5
20°	1771.4	1592.7	1134.1	641.0	317.6	231.4	215.5	206.4	200.0	197.4	195.8
22.5°	1765.0	1555.9	1024.0	496.3	243.1	205.4	191.0	179.3	170.2	167.0	164.9
25°	1755.4	1515.6	912.8	362.8	204.8	182.5	165.9	152.1	140.4	134.6	133.6
27.5°	1741.6	1469.8	791.0	268.6	183.0	162.2	142.0	125.0	113.3	106.9	107.5
30°	1719.3	1421.9	669.2	213.3	165.4	141.5	119.7	103.2	92.0	87.2	86.7
32.5°	1692.7	1363.9	557.5	183.0	149.4	122.9	100.0	85.6	77.1	73.4	72.9
35°	1667.7	1305.4	443.6	164.3	133.0	105.9	84.0	71.8	65.4	62.2	62.7
37.5°	1653.8	1253.3	345.7	149.4	119.7	91.0	72.3	61.7	55.8	53.2	52.6
40°	1662.9	1210.7	275.0	136.2	104.8	78.2	62.2	53.2	47.3	43.6	43.6
42.5°	1705.5	1192.1	221.9	123.4	91.0	67.5	54.2	45.8	39.4	35.7	36.2
45°	1835.2	1211.8	185.7	111.7	78.2	58.5	46.8	37.8	32.0	29.3	28.8
47.5°	2050.7	1285.7	160.6	99.5	67.0	50.0	39.4	31.4	25.6	23.4	22.9
50°	2427.3	1438.4	142.0	87.2	56.9	42.6	32.5	25.0	20.2	18.1	18.1
52.5°	2945.4	1771.4	128.8	73.4	47.9	36.2	26.6	20.2	16.0	14.4	13.8
55°	3487.0	2122.5	121.8	61.7	39.9	29.8	21.3	16.0	12.2	10.7	10.1
57.5°	4007.7	2398.0	113.9	50.0	32.0	22.9	16.5	12.2	8.5	7.5	6.9
60°	4507.3	2620.9	96.8	39.9	25.0	16.5	12.2	8.5	5.9	4.8	4.8
62.5°	4954.1	2750.7	76.1	32.0	19.2	11.7	8.0	6.4	4.3	3.2	3.2
65°	5006.2	2582.1	57.4	24.5	13.8	7.5	4.8	4.8	3.2	2.1	2.1
66°	4901.4	2439.0	50.5	22.4	12.2	6.4	4.3	3.7	2.7	1.6	1.6
67.5°	4667.4	2194.8	43.6	19.2	10.1	4.8	3.2	3.2	2.1	1.1	1.1
70°	4032.8	1792.7	34.6	14.4	7.5	3.7	2.1	2.1	1.6	1.1	1.1
72.5°	3073.6	1338.4	28.2	10.7	5.3	2.7	1.6	1.6	1.6	1.1	1.1
75°	1853.8	720.8	21.8	8.0	4.8	2.1	1.1	1.6	2.1	1.6	1.1
77.5°	683.1	245.2	17.0	6.4	3.7	2.1	1.1	1.1	2.1	1.6	1.6
80°	167.5	63.8	12.2	5.3	3.7	2.1	1.1	1.1	2.1	2.1	2.1
82.5°	77.6	27.2	8.5	4.8	3.7	2.1	1.1	1.1	1.6	2.1	2.1
85°	44.7	12.8	6.9	5.3	3.7	2.1	1.1	1.1	1.6	2.1	2.1
87.5°	18.1	6.4	6.4	5.3	4.3	2.7	1.1	1.1	1.1	1.6	1.6
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)