

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: STREETWORKS

Report Number: P286976

Luminaire Tested: **USSL-C029-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C029-D-U-T4-BZ
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18110.5 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 131
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: 28.75 FT

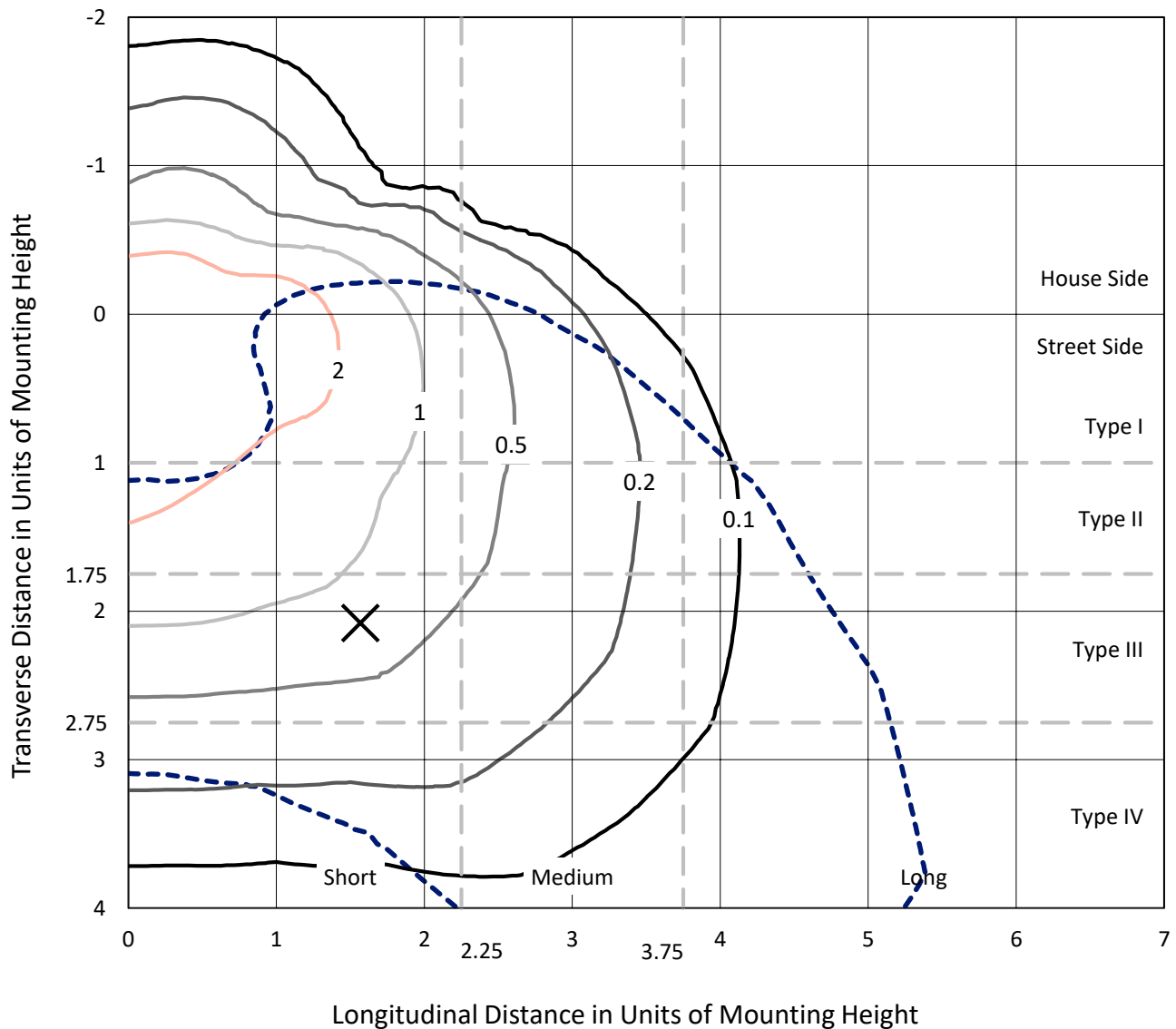


REPORT NUMBER: P286976

CATALOG NUMBER: USSL-C029-D-U-T4-BZ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

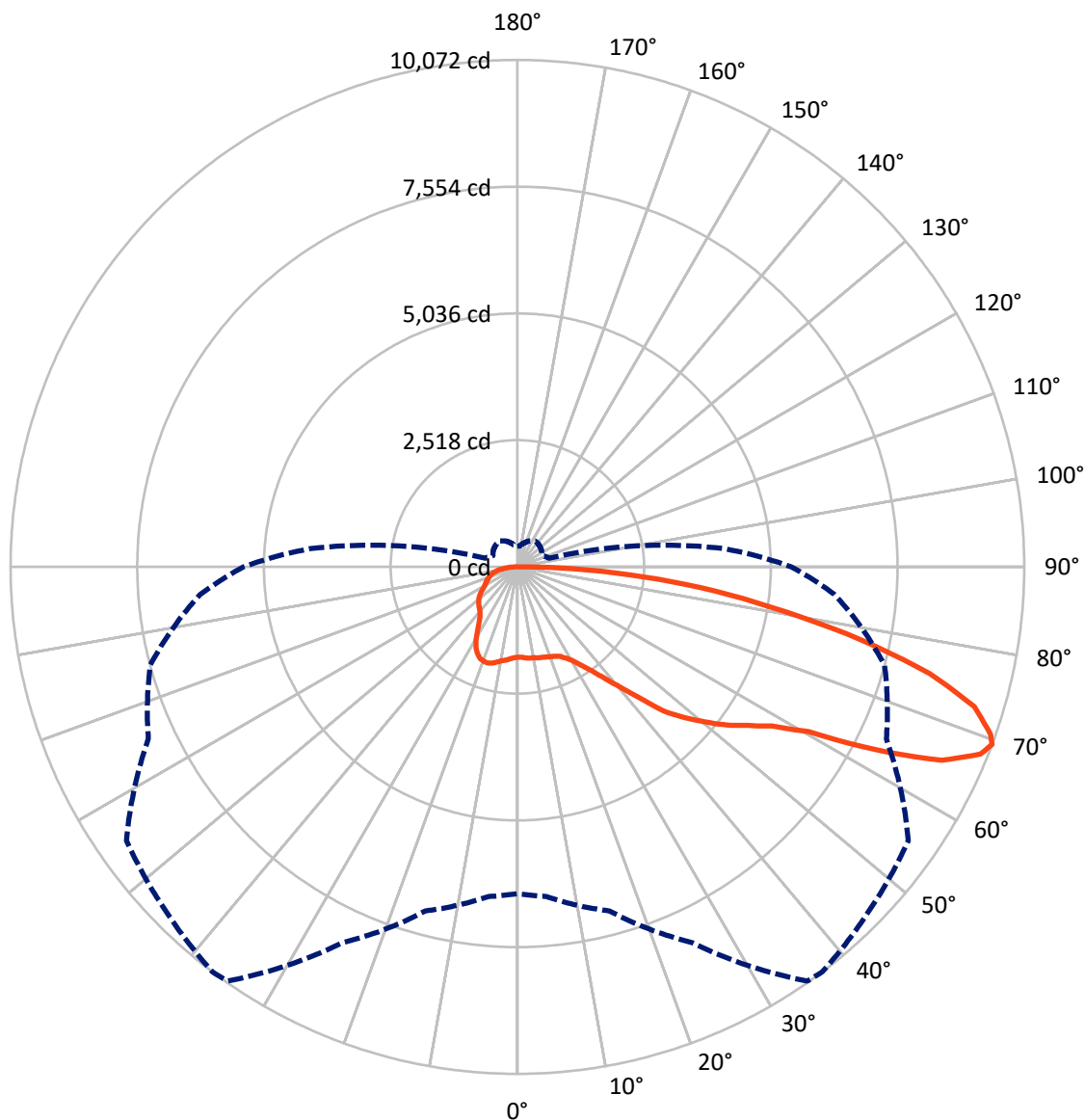


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P286976

CATALOG NUMBER: USSL-C029-D-U-T4-BZ

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P286976

CATALOG NUMBER: USSL-C029-D-U-T4-BZ

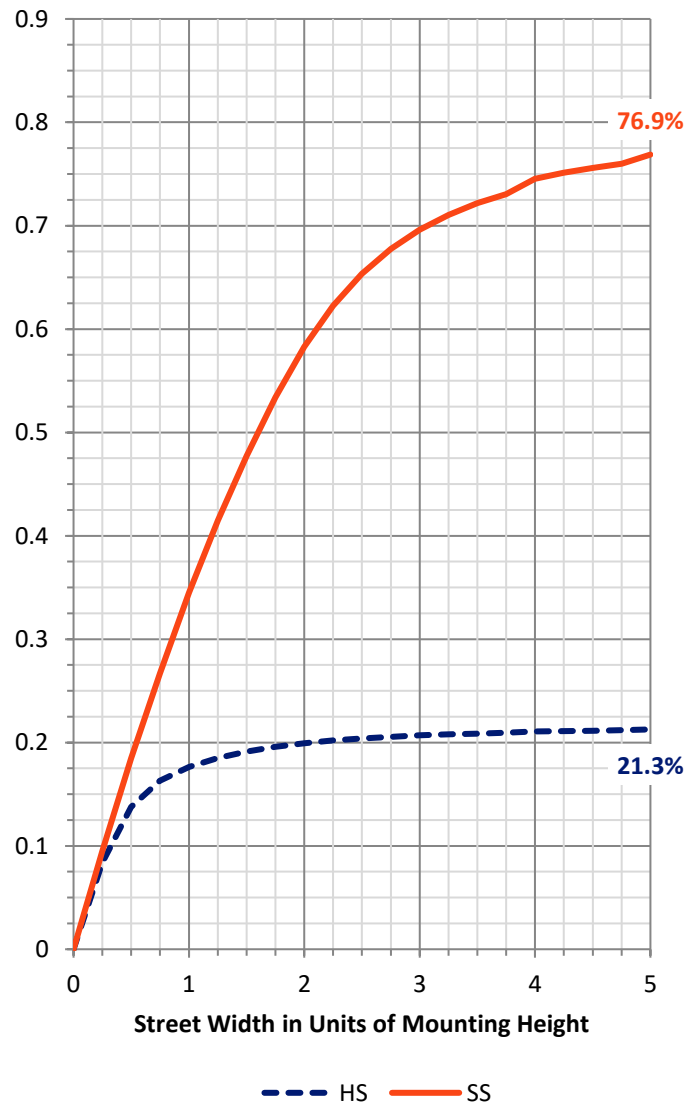
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3905.2	0.0	3905.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	14205.3	0.0	14205.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	18110.5	0.0	18110.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.0
10°-20°	547.2	3.0
20°-30°	935.0	5.2
30°-40°	1482.2	8.2
40°-50°	2518.6	13.9
50°-60°	3570.9	19.7
60°-70°	4544.1	25.1
70°-80°	3487.4	19.3
80°-90°	850.0	4.7
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°	18110.5	100.0
0°-180°	18110.5	100.0

Coefficient of Utilization



REPORT NUMBER: P286976

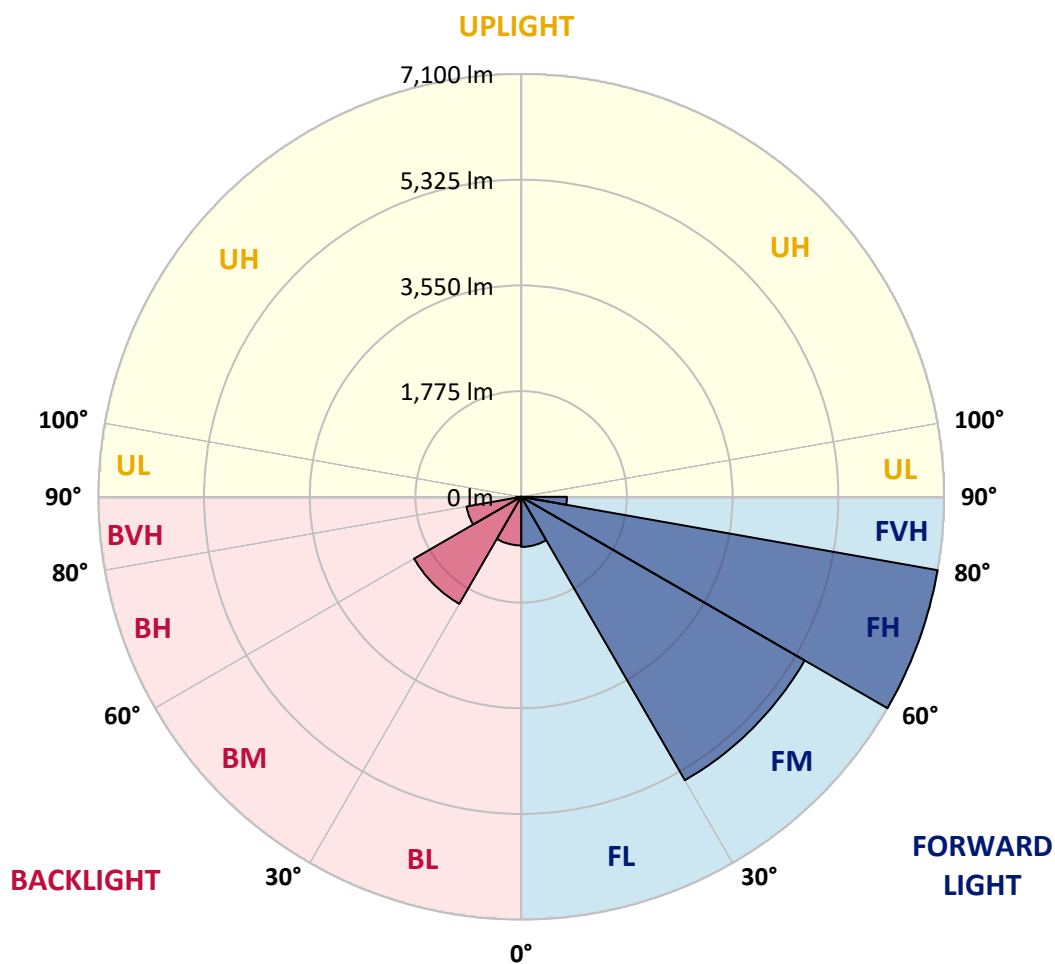
CATALOG NUMBER: USSL-C029-D-U-T4-BZ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	840.7	4.6			
FM	(30°-60°)	5496.2	30.3			
FH	(60°-80°)	7100.0	39.2			G3/7500
FVH	(80°-90°)	768.3	4.2			G5
BL	(0°-30°)	816.6	4.5	B2/1000		
BM	(30°-60°)	2075.5	11.5	B2/2500		
BH	(60°-80°)	931.5	5.1	B2/1000		G2/1000
BVH	(80°-90°)	81.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





REPORT NUMBER: P286976

CATALOG NUMBER: USSL-C029-D-U-T4-BZ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5
2.5°	1828.0	1818.3	1818.3	1797.8	1797.8	1796.1	1800.6	1789.9	1788.1	1786.4	1780.1
5°	1851.1	1847.6	1835.1	1820.1	1827.2	1817.4	1817.4	1803.2	1804.1	1802.3	1792.5
7.5°	1845.8	1852.1	1851.1	1833.4	1828.0	1830.8	1831.6	1832.5	1823.7	1822.7	1815.6
10°	1862.7	1856.5	1859.2	1831.6	1838.7	1832.5	1842.2	1841.4	1841.4	1841.4	1833.4
12.5°	1827.2	1834.3	1836.9	1841.4	1854.7	1854.7	1870.7	1876.9	1890.2	1899.1	1888.4
15°	1817.4	1811.2	1836.9	1834.3	1865.3	1862.7	1888.4	1923.1	1934.6	1958.6	1964.8
17.5°	1812.1	1824.5	1844.0	1843.2	1873.4	1879.5	1915.1	1954.1	1987.1	2027.1	2041.3
20°	1827.2	1827.2	1847.6	1856.5	1902.6	1902.6	1939.9	1988.8	2040.3	2099.0	2129.1
22.5°	1875.2	1876.9	1895.5	1885.8	1915.1	1925.7	1957.7	2012.9	2092.8	2156.7	2218.9
25°	1902.6	1913.3	1935.5	1932.8	1961.3	1969.3	2007.5	2078.6	2164.7	2249.1	2353.0
27.5°	1966.6	1967.5	1985.3	1979.9	2047.4	2051.0	2085.7	2139.8	2265.1	2361.9	2507.6
30°	2059.0	2064.4	2075.9	2091.8	2162.1	2158.5	2181.6	2253.6	2374.4	2504.9	2703.0
32.5°	2259.7	2248.2	2234.0	2236.7	2305.9	2325.5	2369.9	2455.2	2604.4	2762.5	2976.6
35°	2601.7	2594.6	2543.1	2482.7	2506.7	2529.8	2602.6	2766.0	2996.1	3367.4	3558.4
37.5°	3048.5	3069.9	2973.0	2844.2	2791.8	2797.2	2864.7	3085.8	3461.5	4163.3	4284.1
40°	3614.4	3582.4	3463.3	3291.0	3158.7	3131.2	3152.5	3435.8	3982.2	4865.0	4888.2
42.5°	4027.4	4031.9	3896.8	3771.5	3598.4	3546.8	3511.3	3779.6	4520.4	5406.0	5324.3
45°	4506.2	4540.8	4393.4	4264.6	4142.8	4089.6	4036.3	4200.6	5077.3	5835.9	5695.6
47.5°	4912.1	4918.4	4728.2	4632.3	4497.3	4473.3	4421.8	4579.9	5530.3	6173.5	5981.5
50°	5288.7	5353.6	5106.6	4969.9	4857.0	4841.9	4860.6	5009.8	5971.8	6465.7	6212.5
52.5°	5935.4	5835.9	5547.2	5289.6	5219.5	5220.3	5216.8	5460.2	6428.4	6711.7	6402.6
55°	6531.4	6337.8	6018.9	5729.3	5557.9	5559.7	5589.9	5887.4	6806.8	6948.9	6532.3
57.5°	6904.5	7011.1	6718.8	6284.5	5960.2	5965.6	5964.7	6287.1	7131.9	7157.6	6632.6
60°	7449.0	7576.1	7499.6	7173.6	6738.4	6642.5	6400.0	6738.4	7465.8	7357.5	6739.3
62.5°	7847.0	7941.1	8153.4	7971.3	7996.2	8006.0	7243.8	7252.7	7704.8	7522.7	6762.4
65°	7847.8	7846.0	8339.1	8566.4	9158.9	9261.9	8941.3	7963.3	7931.3	7549.3	6673.6
67.5°	7098.2	7144.4	7663.1	8507.8	9848.2	9925.5	9720.3	9086.9	8048.6	7579.6	6529.6
69°	6492.3	6574.0	7075.9	8237.8	10043.6	10072.0	9795.0	9483.1	8091.2	7553.8	6328.9
70°	6091.8	6095.3	6606.9	7904.7	9945.0	9977.1	9789.6	9550.7	8054.8	7481.0	6170.7
72.5°	4807.3	4857.9	5310.9	6715.3	9460.9	9492.0	9427.2	9373.0	8002.4	7158.6	5307.3
75°	3514.8	3548.7	3962.5	5260.3	8273.4	8460.8	8745.0	9048.8	7457.0	6155.7	3995.4
77.5°	2464.9	2509.3	2935.7	3992.7	6738.4	6996.0	7636.5	7920.6	6318.3	4821.5	2227.8
80°	1645.9	1701.0	2088.3	2973.9	5129.7	5392.7	6133.4	6256.1	4833.0	2892.1	441.4
82.5°	1047.3	1061.5	1369.7	2101.7	3815.1	3966.1	4234.4	3977.7	2561.8	659.0	130.6
85°	611.1	636.9	828.7	1319.0	2352.1	2524.5	2641.7	1973.7	619.1	88.8	70.2
87.5°	230.1	240.7	335.8	570.2	1100.6	1083.6	1051.7	666.1	111.1	40.9	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P286976

CATALOG NUMBER: USSL-C029-D-U-T4-BZ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5	1793.5
2.5°	1779.1	1795.2	1787.2	1783.6	1781.9	1790.7	1807.7	1803.2	1800.6	1829.8	1832.5
5°	1792.5	1814.8	1813.8	1817.4	1812.1	1822.7	1830.8	1833.4	1836.1	1867.1	1871.6
7.5°	1817.4	1827.2	1830.8	1845.0	1836.9	1853.8	1868.1	1853.8	1867.1	1889.4	1893.8
10°	1839.6	1854.7	1855.6	1877.8	1869.8	1885.8	1889.4	1889.4	1900.0	1925.7	1921.3
12.5°	1892.9	1893.8	1924.9	1926.7	1937.3	1936.4	1929.3	1908.9	1899.1	1933.8	1936.4
15°	1970.1	1979.9	2020.0	2017.2	2004.0	1996.9	1966.6	1916.0	1886.7	1881.3	1881.3
17.5°	2063.4	2066.1	2117.7	2107.0	2085.7	2039.5	1989.8	1900.0	1817.4	1790.7	1774.8
20°	2139.8	2162.1	2225.2	2188.7	2151.4	2076.8	1967.5	1844.0	1716.1	1651.3	1634.4
22.5°	2243.8	2287.3	2323.7	2270.4	2192.2	2083.9	1939.9	1762.3	1594.4	1493.2	1475.4
25°	2391.2	2416.0	2414.3	2321.9	2198.4	2061.7	1860.9	1646.9	1441.7	1330.6	1297.7
27.5°	2543.1	2560.8	2486.2	2361.0	2177.1	1998.5	1757.8	1495.8	1287.1	1187.6	1162.7
30°	2715.5	2697.7	2542.2	2344.2	2121.2	1887.6	1613.1	1329.8	1153.0	1065.0	1051.7
32.5°	2981.1	2889.5	2592.0	2305.1	2020.0	1734.7	1436.4	1210.7	1065.9	962.9	945.1
35°	3442.0	3248.4	2680.8	2270.4	1897.3	1563.4	1284.4	1128.1	988.7	867.0	843.9
37.5°	4038.0	3729.8	2847.7	2210.8	1752.5	1396.3	1187.6	1058.8	930.1	795.0	769.3
40°	4622.5	4233.5	3072.5	2151.4	1615.7	1282.7	1132.5	1031.3	907.0	768.3	740.8
42.5°	5048.9	4636.7	3317.7	2094.6	1483.4	1193.9	1105.1	1023.3	907.8	772.8	747.0
45°	5370.4	4956.5	3566.4	2016.4	1328.8	1125.4	1079.3	1015.3	907.0	777.2	745.2
47.5°	5653.8	5166.2	3737.8	1913.3	1182.3	1072.1	1048.1	985.1	884.7	758.6	731.0
50°	5853.7	5365.1	3849.8	1823.7	1069.4	1025.0	1004.7	936.2	832.3	722.1	690.2
52.5°	5994.9	5493.9	3863.1	1801.4	984.2	984.2	952.2	881.2	780.8	669.8	638.7
55°	6143.3	5567.7	3805.4	1718.8	894.4	916.7	896.3	843.9	747.0	633.3	613.8
57.5°	6137.0	5530.3	3689.8	1381.3	794.1	817.2	825.2	811.0	734.6	642.2	623.5
60°	6177.9	5492.2	3498.0	960.2	699.1	734.6	768.3	768.3	695.5	586.2	566.7
62.5°	6156.5	5404.2	3088.5	676.9	623.5	680.5	723.1	690.2	619.1	526.8	514.3
65°	6018.0	5153.8	2316.6	574.7	596.9	649.3	688.4	637.7	564.9	476.1	467.2
67.5°	5764.9	4692.7	1232.0	537.4	585.4	628.0	649.3	594.3	522.3	432.5	422.8
69°	5442.4	4134.9	660.8	532.1	583.6	610.3	625.3	568.5	490.3	411.2	411.2
70°	5108.4	3693.4	427.2	534.7	576.5	599.6	608.5	550.7	471.7	389.1	385.5
72.5°	4002.5	2375.2	357.1	508.1	555.2	565.8	564.9	503.7	413.9	295.8	301.1
75°	2429.4	724.9	341.1	464.6	519.7	541.8	527.6	422.8	322.4	247.8	247.8
77.5°	660.8	254.1	323.4	423.7	474.3	480.6	476.1	393.5	287.8	205.2	207.0
80°	197.2	197.2	301.1	353.6	402.3	430.8	408.6	345.5	231.0	108.3	111.9
82.5°	113.7	127.9	252.3	248.8	325.1	324.2	324.2	247.0	156.3	71.0	57.8
85°	60.4	90.6	136.8	143.0	152.7	172.3	233.6	213.1	118.2	32.0	7.1
87.5°	34.7	51.5	37.3	26.6	56.0	102.2	151.0	144.8	98.6	0.8	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)