

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: P598564

Luminaire Tested: **PMIM-SA4C-835-U-T4W**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4C-835-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20113 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 225
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

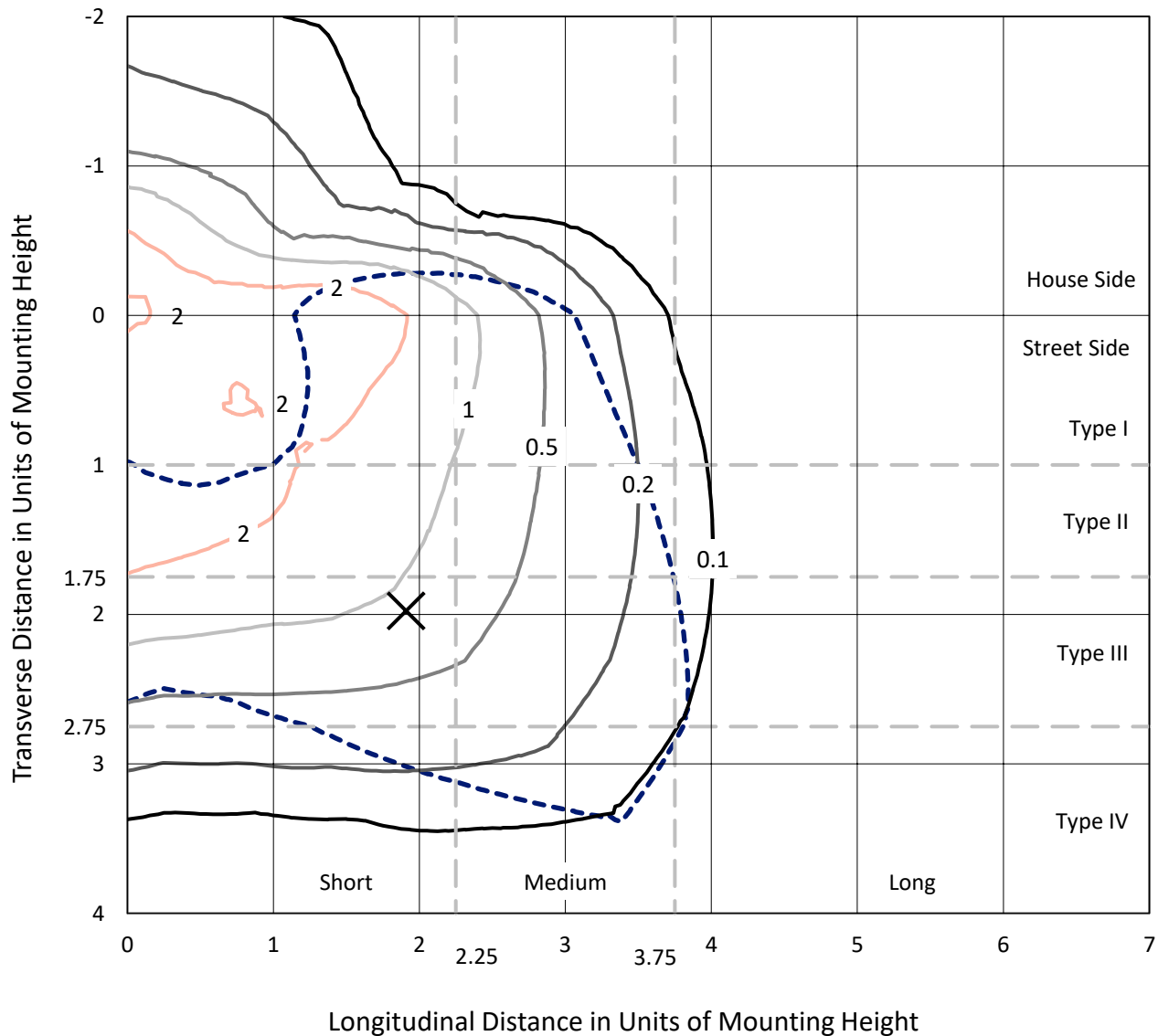


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Iso-Footcandle Lines of Horizontal Illumination

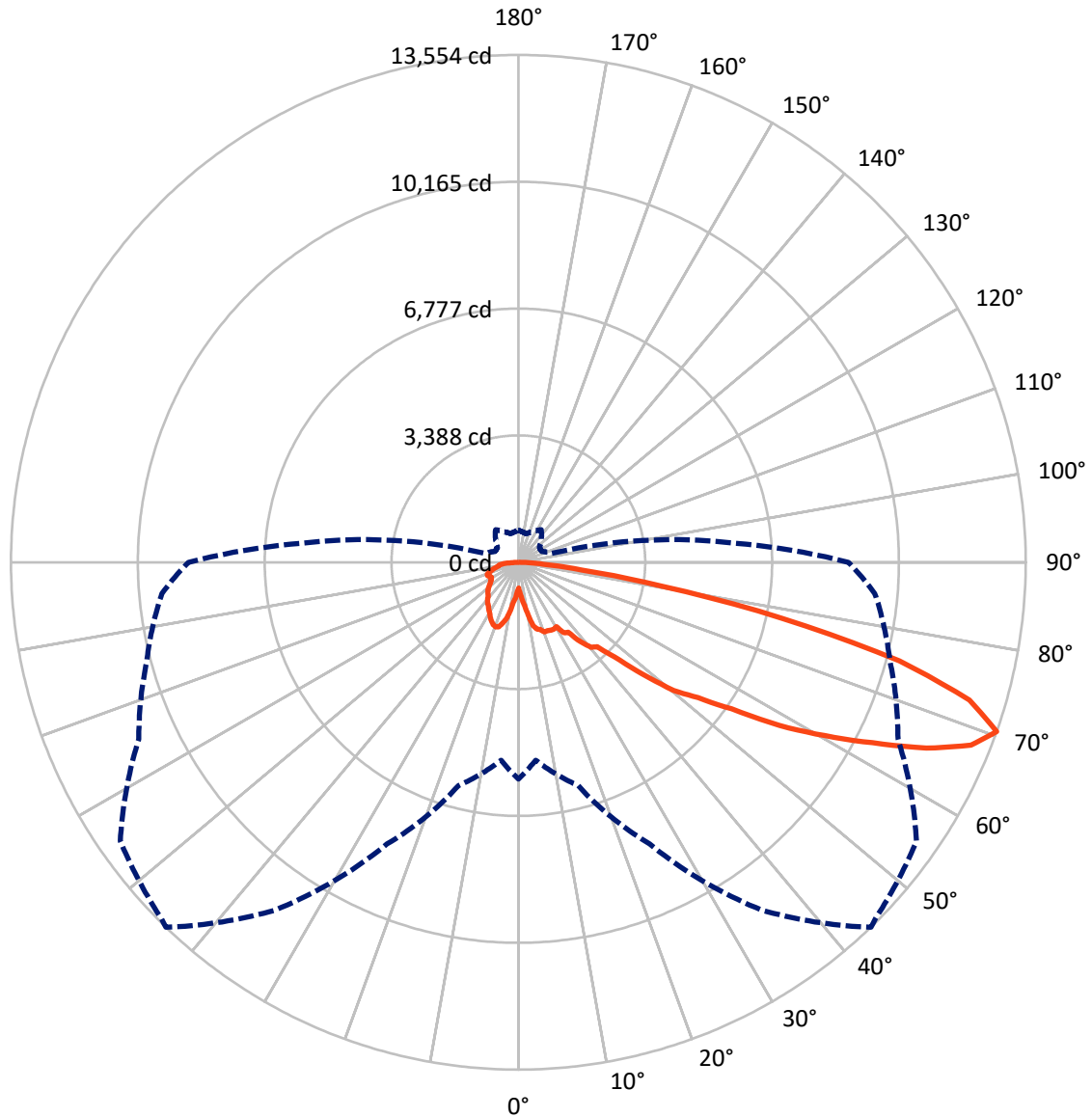
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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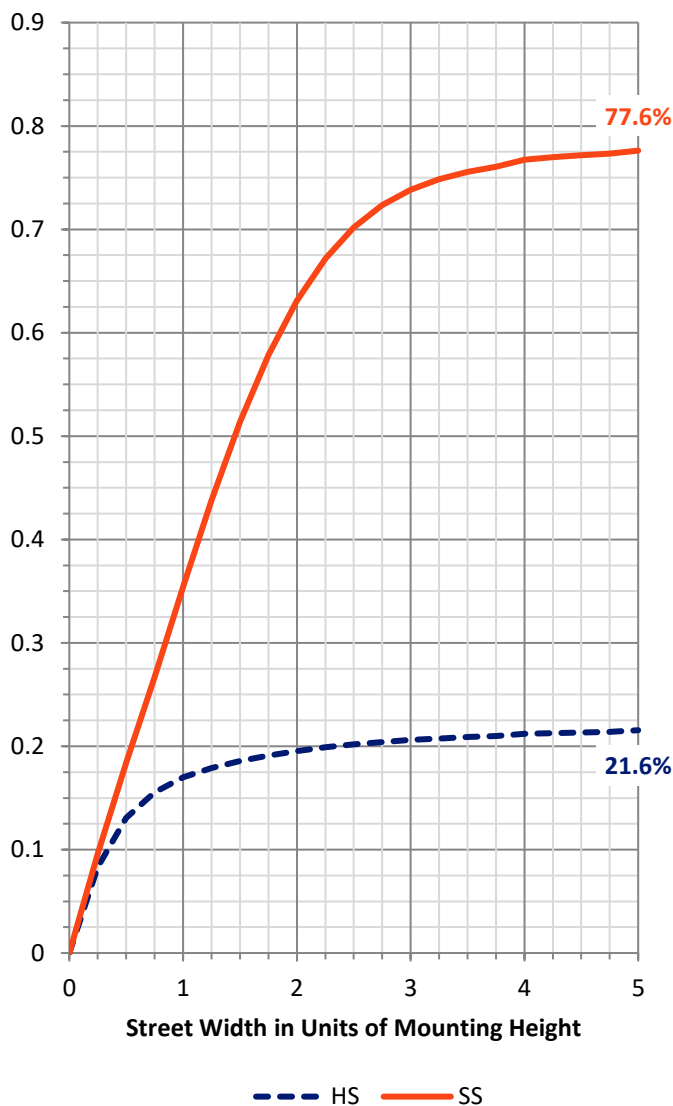
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4437.7	0.0	4437.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	15675.3	0.0	15675.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	20113.0	0.0	20113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	0.5
10°-20°	493.6	2.5
20°-30°	922.4	4.6
30°-40°	1480.6	7.4
40°-50°	2499.2	12.4
50°-60°	4453.5	22.1
60°-70°	6091.8	30.3
70°-80°	3582.3	17.8
80°-90°	482.3	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°	20113.0	100.0
0°-180°	20113.0	100.0

Coefficient of Utilization



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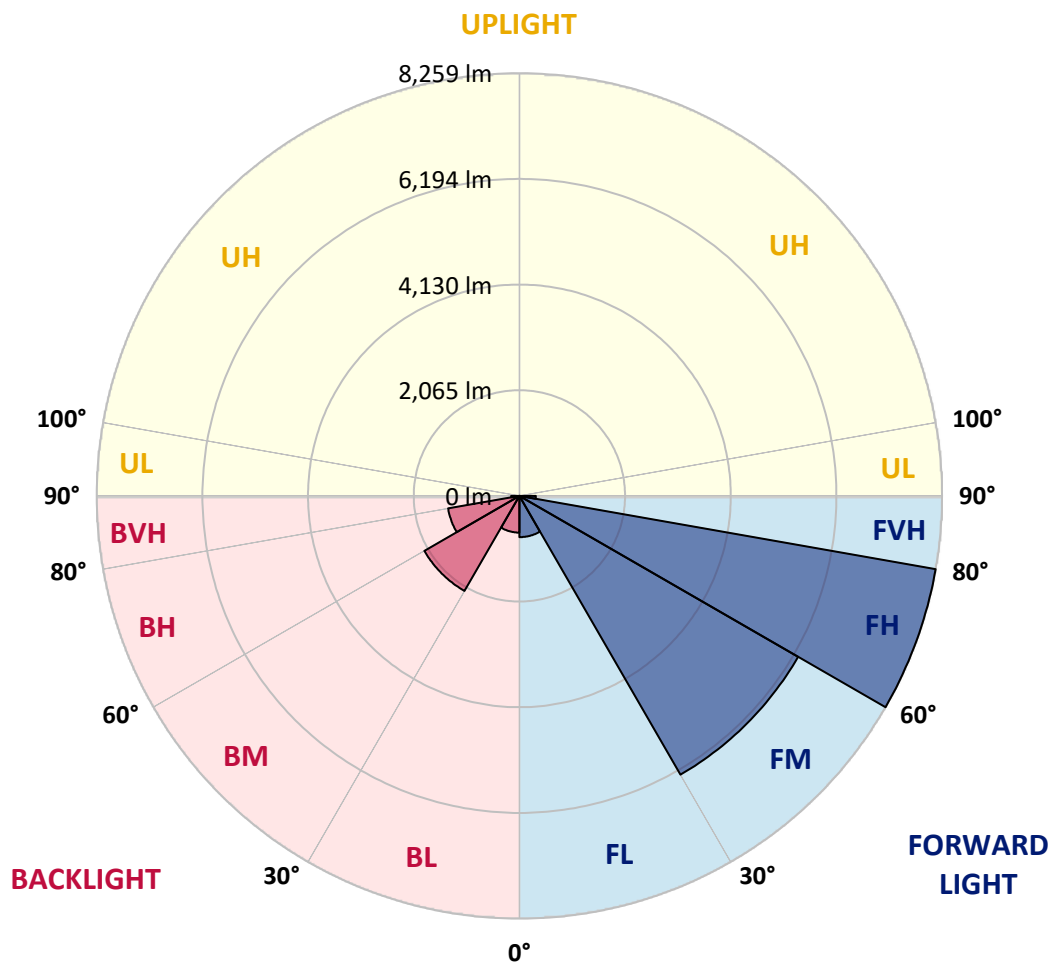
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	806.0	4.0			
FM (30°-60°)	6288.8	31.3			
FH (60°-80°)	8259.0	41.1			G4/12000
FVH (80°-90°)	321.5	1.6			G3/500
BL (0°-30°)	717.2	3.6	B2/1000		
BM (30°-60°)	2144.5	10.7	B2/2500		
BH (60°-80°)	1415.1	7.0	B3/2500		G3/2500
BVH (80°-90°)	160.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	829.6	813.1	773.6	786.8	803.2	809.8	808.2	806.5	781.0	771.9	817.3
5°	1127.4	1091.1	1062.2	1050.7	1012.7	983.0	964.9	1012.7	1005.3	1017.7	1049.0
7.5°	1407.7	1384.7	1319.5	1296.4	1218.9	1167.8	1162.0	1199.9	1209.8	1190.0	1243.6
10°	1588.4	1548.8	1535.6	1480.3	1426.7	1418.5	1413.5	1396.2	1372.3	1370.6	1322.8
12.5°	1728.5	1749.2	1759.9	1696.4	1698.0	1727.7	1712.1	1642.0	1601.5	1530.6	1536.4
15°	1980.1	2009.8	1924.8	1884.4	1806.9	1851.4	1845.7	1787.1	1781.3	1735.1	1681.5
17.5°	2199.4	2212.6	2070.8	1978.4	1952.0	1887.7	1905.0	1906.7	1830.8	1913.3	1865.4
20°	2217.6	2264.6	2101.3	1917.4	1996.6	1988.3	1990.8	1974.3	1874.5	2010.6	1992.4
22.5°	2306.7	2234.9	2088.1	1953.7	1974.3	1986.7	1998.2	1978.4	1972.7	2048.5	2103.8
25°	2290.2	2267.1	2118.6	2004.8	2007.3	2009.8	2015.5	2074.9	2068.3	2171.4	2200.3
27.5°	2444.4	2408.9	2127.7	2099.7	2035.3	2021.3	1981.7	2105.4	2201.9	2199.4	2358.6
30°	2738.0	2701.7	2338.8	2257.2	2140.9	1997.4	2073.3	2238.2	2314.1	2339.6	2541.7
32.5°	3196.5	3255.9	2754.5	2425.4	2281.1	2249.8	2241.5	2225.0	2413.0	2539.2	2723.1
35°	3854.6	3807.6	3244.3	2785.8	2428.7	2294.3	2312.4	2413.0	2636.5	2718.2	2888.1
37.5°	4608.4	4511.1	3871.9	3194.0	2854.2	2686.0	2625.8	2723.1	2772.6	2836.9	3184.1
40°	5374.5	5137.0	4488.0	3730.9	3109.9	2982.9	2930.1	2810.5	2926.8	3057.1	3498.3
42.5°	6114.2	5930.3	5158.4	4371.7	3540.4	3087.6	3058.8	2941.7	3302.1	3439.8	3951.9
45°	6889.5	6463.1	5845.4	5094.9	4169.6	3601.4	3558.5	3348.2	3810.1	4097.1	4591.9
47.5°	7410.7	7015.6	6474.6	5682.1	4696.6	4460.7	4379.1	4019.5	4438.5	4811.2	5580.7
50°	7903.8	7497.3	6929.0	6324.5	5650.8	5379.4	5205.4	4606.7	5221.1	5828.1	6848.2
52.5°	8609.8	8246.1	7456.8	6971.9	6675.9	6008.7	5879.2	5550.2	6136.5	6955.4	8233.7
55°	9364.3	8868.7	8153.7	7884.9	7765.3	6910.9	6805.3	6595.9	7355.4	8109.2	9580.4
57.5°	9697.5	9180.4	8786.2	8625.4	8615.5	8222.2	8100.9	7955.0	8601.5	9098.8	10848.0
60°	9962.2	9407.2	9249.7	9339.6	9666.2	9407.2	9249.7	9121.1	9615.9	10076.9	11882.1
62.5°	9913.6	9356.9	9437.7	9711.5	10545.3	10621.2	10499.9	10188.2	10621.2	10878.5	12475.1
65°	9128.5	8613.9	9084.8	9734.6	11362.6	11968.7	11962.1	11146.5	11296.6	11296.6	12412.4
67.5°	7752.9	7220.2	7991.2	9530.9	11927.5	13036.7	13038.3	12162.5	11358.4	11254.5	11442.6
70°	5789.3	5306.9	6173.6	8300.5	11344.4	13553.8	13478.7	12982.3	11188.6	10280.6	9558.1
72.5°	3457.9	3146.2	3943.7	6042.5	9676.9	12602.9	12802.5	12038.0	10242.6	8549.6	6832.6
75°	1570.2	1435.0	1853.1	3471.1	6908.4	10512.3	10729.2	10159.3	8135.6	6148.9	3948.6
77.5°	672.1	635.8	809.0	1539.7	3809.2	7188.8	7633.3	7260.6	5512.2	3573.4	1746.7
80°	432.1	409.0	497.3	740.6	1769.0	3884.3	4266.9	4127.6	2808.1	1389.6	615.2
82.5°	258.1	250.7	332.3	465.1	964.9	1709.6	1926.5	1977.6	1166.1	623.5	352.1
85°	141.0	142.7	182.3	282.0	578.9	665.5	712.5	775.2	549.2	361.2	170.7
87.5°	47.0	54.4	73.4	114.6	206.2	188.0	188.9	219.4	231.7	150.1	54.4
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°	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7	683.7
2.5°	824.7	809.8	771.9	774.4	788.4	791.7	795.8	771.9	767.0	812.3	816.4
5°	1054.0	1005.3	983.0	975.6	954.2	946.7	986.3	1004.5	1022.6	1058.1	1075.4
7.5°	1237.9	1183.4	1143.0	1105.9	1074.6	1056.4	1123.2	1174.4	1205.7	1278.3	1311.3
10°	1322.0	1275.0	1260.1	1230.4	1254.4	1308.8	1321.2	1322.8	1392.1	1390.4	1404.4
12.5°	1489.4	1458.9	1410.2	1420.9	1483.6	1539.7	1524.0	1547.9	1572.7	1632.1	1604.8
15°	1642.0	1633.7	1588.4	1595.8	1608.1	1678.2	1687.3	1711.2	1749.2	1796.2	1764.0
17.5°	1830.0	1826.7	1716.2	1706.3	1735.1	1803.6	1782.2	1740.1	1865.4	1915.8	1902.6
20°	1957.8	1933.1	1791.2	1749.2	1822.6	1831.6	1806.9	1740.1	1849.0	1958.6	1988.3
22.5°	2064.2	2035.3	1889.4	1806.9	1792.0	1796.2	1796.2	1783.8	1837.4	1927.3	1926.5
25°	2150.0	2177.2	1991.6	1912.5	1833.3	1734.3	1722.0	1732.7	1763.2	1936.4	1930.6
27.5°	2365.2	2290.2	2026.3	1966.9	1804.4	1648.6	1682.4	1698.9	1708.8	1898.4	1929.8
30°	2505.4	2528.5	2150.0	1999.0	1762.4	1552.9	1564.4	1612.3	1670.0	1894.3	1903.4
32.5°	2694.3	2644.8	2342.9	1945.4	1650.2	1495.2	1473.7	1538.0	1623.8	1827.5	1852.3
35°	2869.9	2928.5	2424.6	1935.5	1571.9	1408.6	1431.7	1453.9	1543.0	1753.3	1782.2
37.5°	3282.3	3148.7	2653.9	1887.7	1506.7	1364.9	1340.1	1373.9	1449.8	1612.3	1679.1
40°	3595.6	3603.9	2703.3	1827.5	1382.2	1302.2	1249.4	1283.2	1315.4	1444.9	1473.7
42.5°	4183.6	4003.9	2824.6	1695.6	1303.8	1208.2	1178.5	1193.3	1198.3	1252.7	1300.5
45°	4931.6	4510.2	2872.4	1518.3	1200.7	1169.4	1109.2	1101.8	1074.6	1082.0	1124.1
47.5°	5966.6	5300.3	2837.8	1329.4	1109.2	1119.1	1032.5	998.7	960.8	969.8	1009.4
50°	7305.1	6309.7	2835.3	1169.4	1046.5	1053.1	982.2	921.2	883.2	902.2	936.8
52.5°	8806.9	7322.4	2846.8	1059.7	978.1	974.8	949.2	875.0	844.5	864.3	903.9
55°	10243.5	8193.3	2932.6	990.5	907.2	912.9	922.8	860.2	826.3	844.5	885.7
57.5°	11493.7	8881.1	2900.4	917.1	841.2	867.6	894.0	839.5	814.0	840.4	881.6
60°	12367.9	9200.2	2646.4	847.0	792.5	828.8	879.9	837.1	833.8	890.7	940.1
62.5°	12687.0	9082.3	2151.6	791.7	763.7	823.9	912.1	891.5	894.8	964.9	1033.3
65°	12221.1	8462.1	1604.8	756.2	741.4	847.8	986.3	923.7	878.3	936.0	998.7
67.5°	10895.8	7359.5	1172.7	725.7	715.8	885.7	1054.8	920.4	836.2	894.8	945.9
70°	8815.1	5809.1	908.0	687.0	682.0	860.2	1061.4	895.6	790.9	828.8	857.7
72.5°	6040.0	3977.5	752.1	649.9	623.5	762.0	1007.8	840.4	736.4	758.7	782.6
75°	3375.5	2232.4	632.5	603.7	545.9	678.7	945.1	807.4	696.0	702.6	735.6
77.5°	1515.0	965.7	536.9	542.6	475.8	600.4	863.4	754.6	634.2	619.3	652.3
80°	573.2	470.9	435.4	458.5	400.0	520.4	778.5	706.8	569.0	550.1	569.0
82.5°	332.3	285.3	323.3	353.0	317.5	478.3	743.0	663.1	501.4	453.6	470.1
85°	154.2	147.6	193.8	229.3	221.8	372.8	635.8	498.9	357.1	301.8	334.0
87.5°	40.4	45.4	68.4	80.8	82.5	127.8	244.9	185.6	139.4	105.6	101.4
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)