

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: P368242

Luminaire Tested: **PMM-SA4A-740-U-T2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-8)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-740-U-T2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15463 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

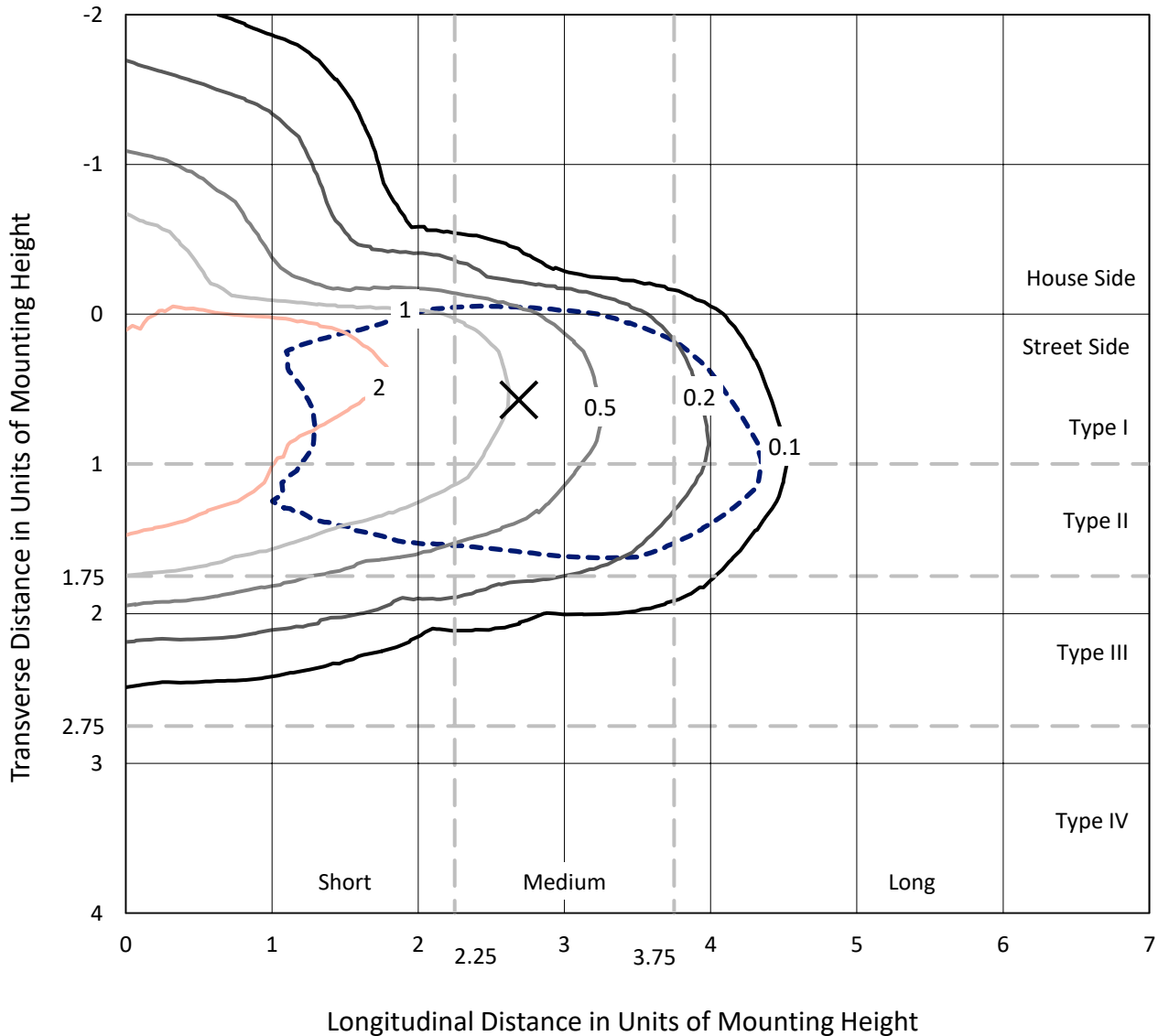
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

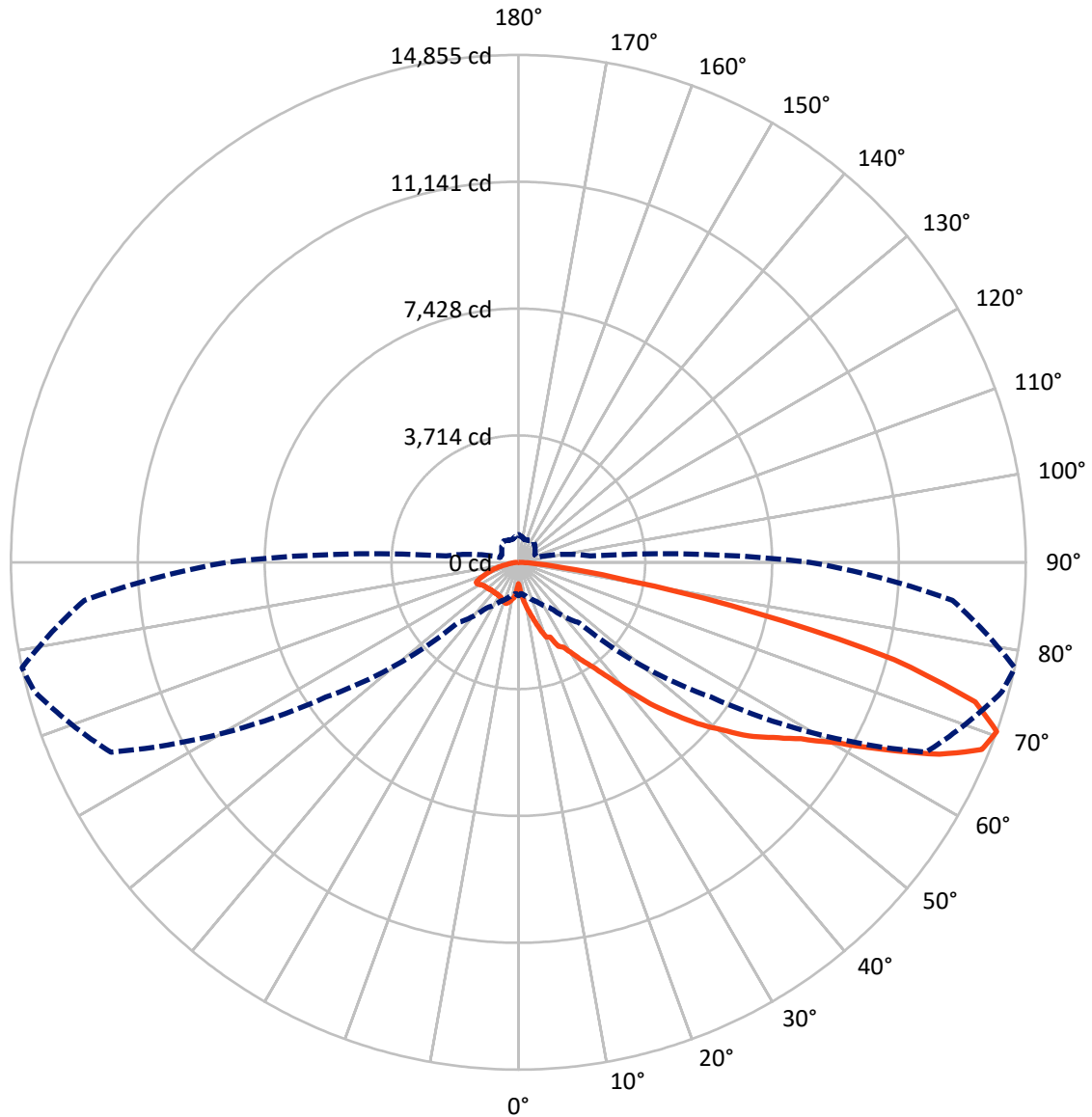
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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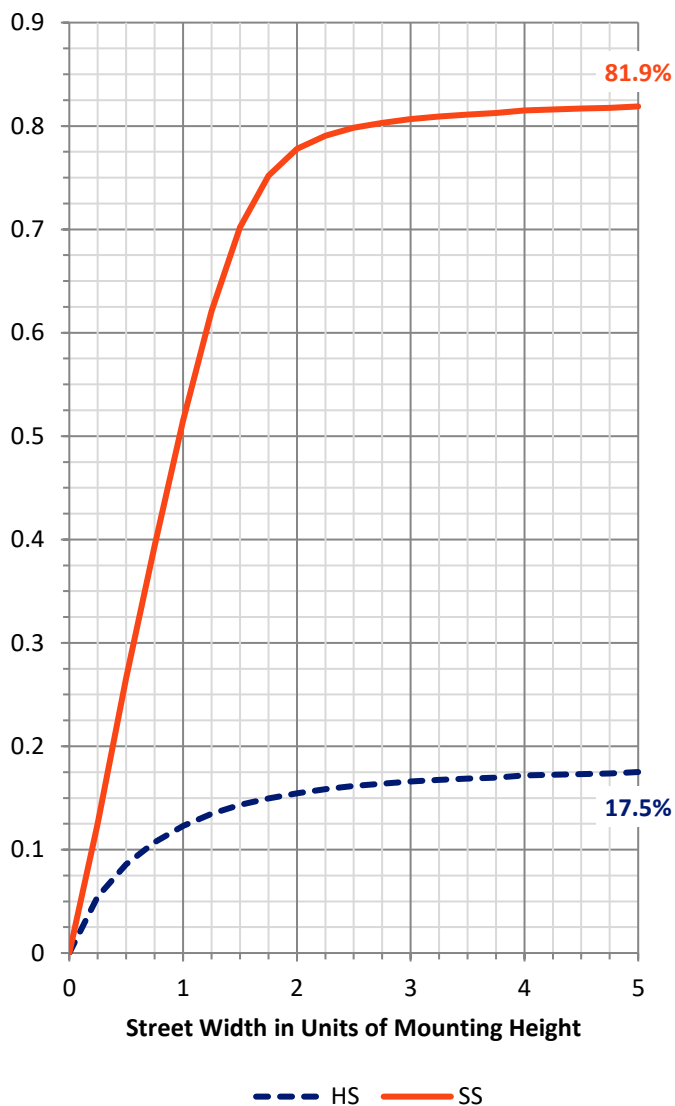
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2759.9	0.0	2759.9
	% Fixture	17.8	0.0	17.8
Street Side	Lumens	12703.1	0.0	12703.1
	% Fixture	82.2	0.0	82.2
Total	Lumens	15463.0	0.0	15463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	0.6
10°-20°	429.2	2.8
20°-30°	826.2	5.3
30°-40°	1391.7	9.0
40°-50°	2408.0	15.6
50°-60°	3635.8	23.5
60°-70°	4027.1	26.0
70°-80°	2321.8	15.0
80°-90°	325.6	2.1
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°	15463.0	100.0
0°-180°	15463.0	100.0

Coefficient of Utilization



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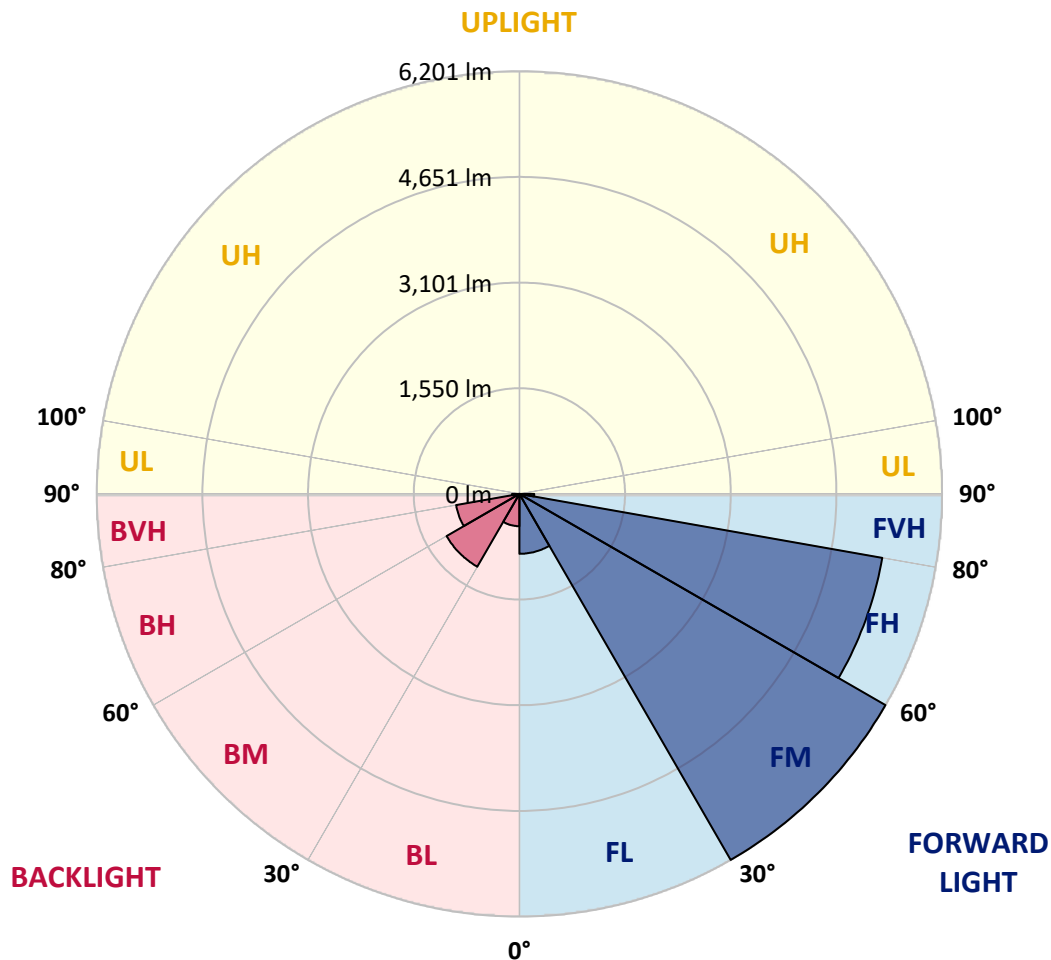
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.0	5.7			
FM (30°-60°)	6201.1	40.1			
FH (60°-80°)	5405.7	35.0			G3/7500
FVH (80°-90°)	217.2	1.4			G2/225
BL (0°-30°)	473.9	3.1	B1/500		
BM (30°-60°)	1234.4	8.0	B2/2500		
BH (60°-80°)	943.2	6.1	B2/1000		G2/1000
BVH (80°-90°)	108.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	811.6	782.6	738.7	756.8	778.7	781.3	774.2	734.2	720.7	751.0	760.0
5°	1137.1	1088.1	1058.5	1048.8	1015.9	947.6	996.6	971.4	976.6	961.8	990.8
7.5°	1411.1	1378.2	1334.4	1322.1	1246.7	1193.2	1226.7	1215.7	1162.9	1142.3	1175.1
10°	1550.3	1514.2	1516.1	1489.7	1469.7	1474.9	1458.1	1409.8	1370.5	1342.7	1263.4
12.5°	1634.1	1643.1	1691.5	1677.9	1753.4	1815.2	1768.2	1696.6	1572.2	1547.1	1468.4
15°	1833.3	1866.8	1821.7	1842.3	1874.5	1993.1	1973.8	1958.3	1826.8	1777.8	1632.8
17.5°	2038.3	2044.7	1976.4	1965.4	2042.8	2102.7	2178.2	2091.1	2107.2	2073.1	1838.4
20°	2082.1	2126.6	2028.6	1960.9	2120.1	2238.7	2332.2	2240.0	2325.1	2334.2	2008.0
22.5°	2242.6	2189.1	2060.2	1993.8	2133.0	2278.7	2430.8	2482.4	2455.3	2379.3	2171.7
25°	2354.1	2325.8	2194.3	2120.8	2173.6	2307.7	2574.6	2709.3	2733.2	2722.9	2327.7
27.5°	2561.1	2575.2	2304.5	2325.1	2251.6	2263.9	2661.0	3010.4	2861.4	2820.2	2521.1
30°	2887.9	2824.7	2521.1	2537.8	2416.0	2395.4	2843.4	3270.1	3136.7	3087.1	2680.3
32.5°	3228.9	3234.7	2866.0	2722.9	2657.7	2637.1	2807.3	3406.1	3484.8	3420.3	2920.8
35°	3709.8	3676.2	3239.8	3051.6	2816.3	2780.2	3064.5	3800.7	3945.0	3764.6	3206.3
37.5°	4442.0	4340.8	3832.9	3397.8	3223.7	3182.5	3431.9	4154.5	4479.4	4255.1	3673.0
40°	5029.9	4824.3	4362.8	3832.9	3538.3	3589.2	3693.0	4583.9	5033.8	4907.5	4104.9
42.5°	5498.6	5316.1	4737.9	4365.3	3965.0	3901.9	4015.3	5115.7	5788.0	5664.2	4643.8
45°	5947.9	5576.6	5159.5	4824.3	4439.5	4516.2	4499.4	5658.4	6713.0	6332.1	5120.2
47.5°	6391.4	6042.6	5606.2	5155.6	4768.2	5245.9	5067.3	6062.0	7337.0	7054.7	5621.7
50°	6961.2	6577.7	6080.7	5627.5	5395.4	5744.8	5445.1	6403.6	8035.8	7704.4	6094.8
52.5°	7339.6	6966.4	6530.6	6207.0	6185.7	6051.0	5974.3	6836.1	8648.2	8447.0	6596.3
55°	7295.1	6935.4	6738.2	6773.6	7036.6	6582.2	6519.6	7476.2	9287.0	9054.3	7137.8
57.5°	6737.5	6344.9	6386.8	6597.0	7303.5	7514.9	7408.6	8160.2	9856.8	9751.1	7807.6
60°	5248.5	5046.7	5387.7	5771.9	6946.4	7788.2	8536.0	8994.3	10558.2	10727.0	8859.6
62.5°	3409.4	3139.9	3678.8	4331.2	5880.8	7607.7	9684.1	10576.2	11706.9	12090.4	10458.2
65°	1766.2	1723.1	2100.2	2699.6	4094.0	6486.8	10088.9	12235.4	13103.1	13549.8	11985.3
67.5°	1284.1	1204.1	1378.8	1731.4	2499.2	4423.3	9321.8	13504.7	14224.1	14633.4	12873.0
70°	977.9	918.6	1052.0	1270.5	1632.2	2498.5	6881.3	13158.5	14656.6	14855.2	12755.0
72.5°	732.3	681.4	798.0	1001.7	1257.6	1406.6	4067.5	10819.2	13918.5	13986.2	11447.7
75°	584.7	545.3	595.6	790.9	1024.9	957.3	2160.7	7838.5	11308.5	11366.5	8744.2
77.5°	479.6	446.1	466.7	593.0	797.4	720.0	1072.0	4986.1	7179.7	7090.8	4919.7
80°	391.3	362.3	371.9	428.7	607.2	537.6	602.1	2601.0	3424.8	3286.9	2046.0
82.5°	301.0	276.5	295.9	315.2	439.6	386.1	351.3	1183.5	1402.7	1306.6	750.3
85°	201.8	179.2	257.2	236.6	287.5	237.2	192.1	471.2	522.8	487.3	263.6
87.5°	55.4	52.2	86.4	118.0	118.0	89.6	70.3	114.1	145.7	127.6	61.9
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°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.4
2.5°	763.9	749.7	712.3	709.1	718.1	719.4	713.6	700.1	693.0	731.6	725.8
5°	983.7	933.4	903.1	875.4	836.7	809.0	816.1	835.4	841.9	870.9	874.1
7.5°	1154.5	1088.1	1021.7	932.8	874.1	836.7	865.1	885.7	901.8	943.1	959.8
10°	1228.6	1156.4	1062.3	968.9	952.7	959.2	943.1	948.2	973.4	975.3	983.7
12.5°	1366.6	1284.7	1115.2	1030.7	1026.2	1039.8	1034.0	1057.8	1075.2	1122.3	1102.3
15°	1498.7	1394.3	1155.2	1068.8	1050.1	1077.2	1108.7	1148.7	1186.1	1230.6	1208.0
17.5°	1659.2	1502.0	1157.1	1051.4	1054.6	1112.6	1145.5	1167.4	1278.9	1340.2	1309.2
20°	1760.4	1512.9	1113.9	1008.2	1054.6	1106.8	1152.6	1176.4	1301.5	1393.7	1414.9
22.5°	1852.0	1516.8	1080.4	985.0	1014.6	1083.6	1152.6	1205.4	1285.4	1373.7	1376.9
25°	1902.3	1513.6	1037.2	986.9	1014.0	1048.1	1109.4	1157.7	1217.0	1340.2	1343.4
27.5°	2031.2	1471.7	994.6	994.6	1008.8	1010.1	1088.1	1116.5	1124.9	1237.0	1257.0
30°	2068.6	1480.7	989.5	993.4	1000.4	987.6	1021.7	1040.4	1052.7	1149.3	1152.6
32.5°	2128.5	1408.5	1005.0	981.7	972.7	970.8	979.2	995.9	1001.1	1060.4	1071.4
35°	2201.4	1379.5	1010.1	978.5	960.5	950.8	975.9	955.3	971.4	1041.1	1048.8
37.5°	2438.6	1339.5	1036.5	978.5	955.3	944.4	932.1	941.8	999.2	1066.2	1107.4
40°	2590.1	1351.8	1030.1	988.2	937.9	927.6	907.0	942.4	1031.4	1150.0	1180.9
42.5°	2855.6	1358.8	1037.8	983.7	943.7	903.8	917.3	956.0	1049.4	1117.1	1164.8
45°	3130.3	1380.8	1032.7	970.1	930.8	949.5	930.8	965.6	1010.1	1012.0	1048.1
47.5°	3399.7	1469.1	1021.7	942.4	927.6	976.6	928.9	934.7	937.9	949.5	992.1
50°	3716.2	1563.2	1006.2	903.8	932.1	977.9	936.0	907.6	904.4	942.4	990.1
52.5°	4075.9	1669.6	986.3	866.4	905.7	965.6	960.5	909.6	881.8	918.6	966.3
55°	4499.4	1790.7	963.1	829.0	876.7	966.9	974.0	896.0	882.5	922.4	973.4
57.5°	5062.2	1966.1	917.9	774.8	841.2	946.9	939.2	880.5	867.7	910.2	963.1
60°	6022.6	2303.2	853.5	721.3	803.2	897.9	910.8	852.8	839.9	887.0	942.4
62.5°	7308.6	2708.7	775.5	669.1	756.8	845.1	875.4	812.9	811.6	871.5	929.5
65°	8505.7	2938.8	694.9	621.4	709.1	796.1	835.4	775.5	778.1	853.5	911.5
67.5°	9003.3	2668.1	622.7	578.9	654.3	740.0	802.5	746.5	738.1	829.0	882.5
70°	8536.0	2119.5	560.2	533.7	592.4	679.4	756.8	707.8	688.4	771.0	812.9
72.5°	7553.0	1766.9	501.5	480.9	538.3	615.6	694.9	655.6	630.4	693.6	731.0
75°	5904.0	1449.7	434.5	428.7	476.4	557.6	630.4	603.4	571.1	611.1	648.5
77.5°	3361.7	917.3	364.9	368.7	402.9	488.6	553.1	531.8	498.9	515.7	558.9
80°	1345.3	462.8	293.3	295.9	324.9	401.6	458.3	450.6	416.4	430.0	459.6
82.5°	502.8	254.0	216.6	217.9	246.9	317.8	391.3	387.4	355.2	345.5	362.3
85°	199.8	125.7	132.8	138.6	166.3	228.8	313.9	278.5	240.4	210.8	221.1
87.5°	47.7	40.0	46.4	49.0	54.1	71.6	114.7	92.2	94.8	76.1	56.7
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)