

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: P598583

Luminaire Tested: **PMM-SA4D-835-U-T4FT-HSS**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598583  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-13)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4D-835-U-T4FT-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16241 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G4

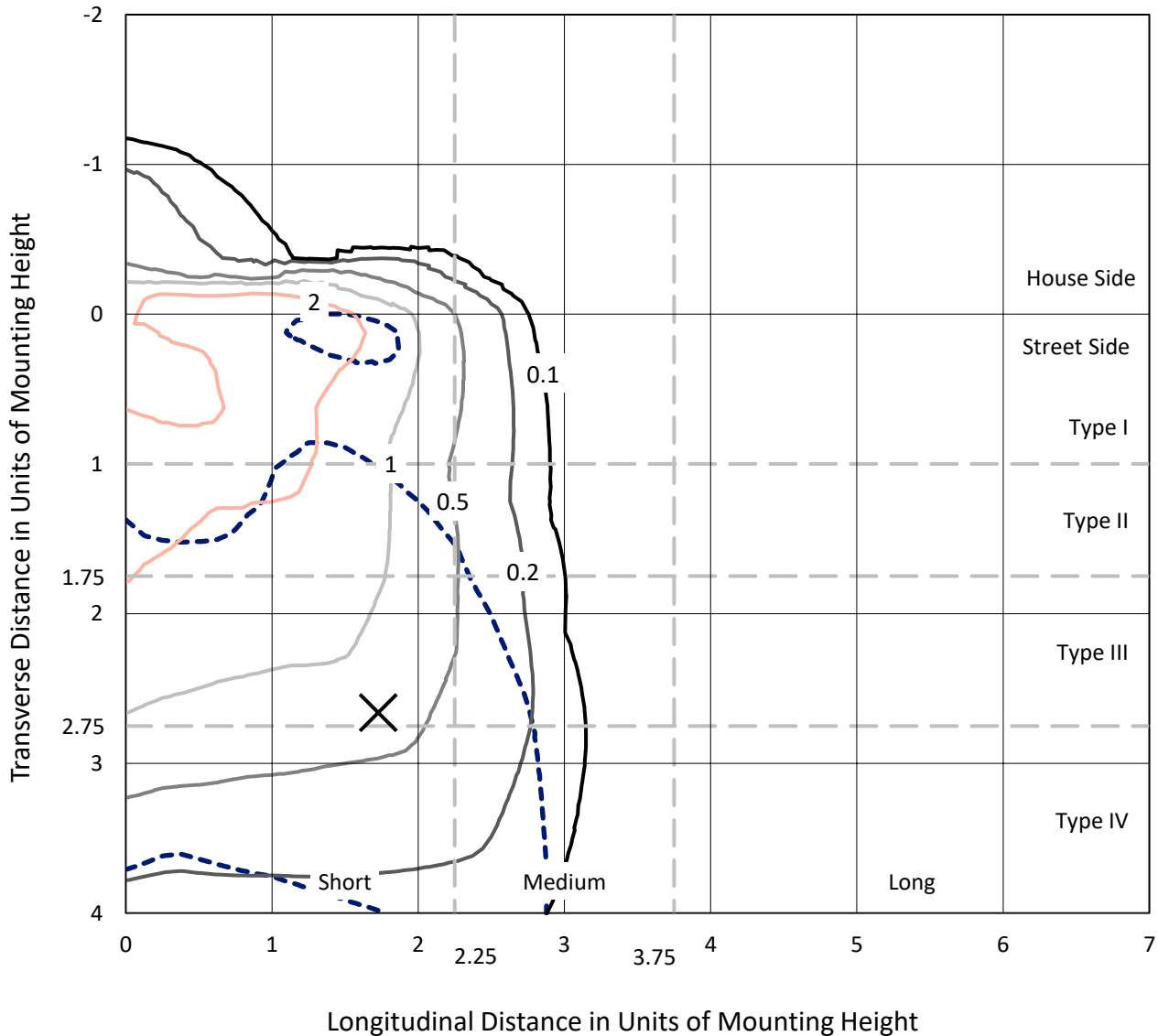
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

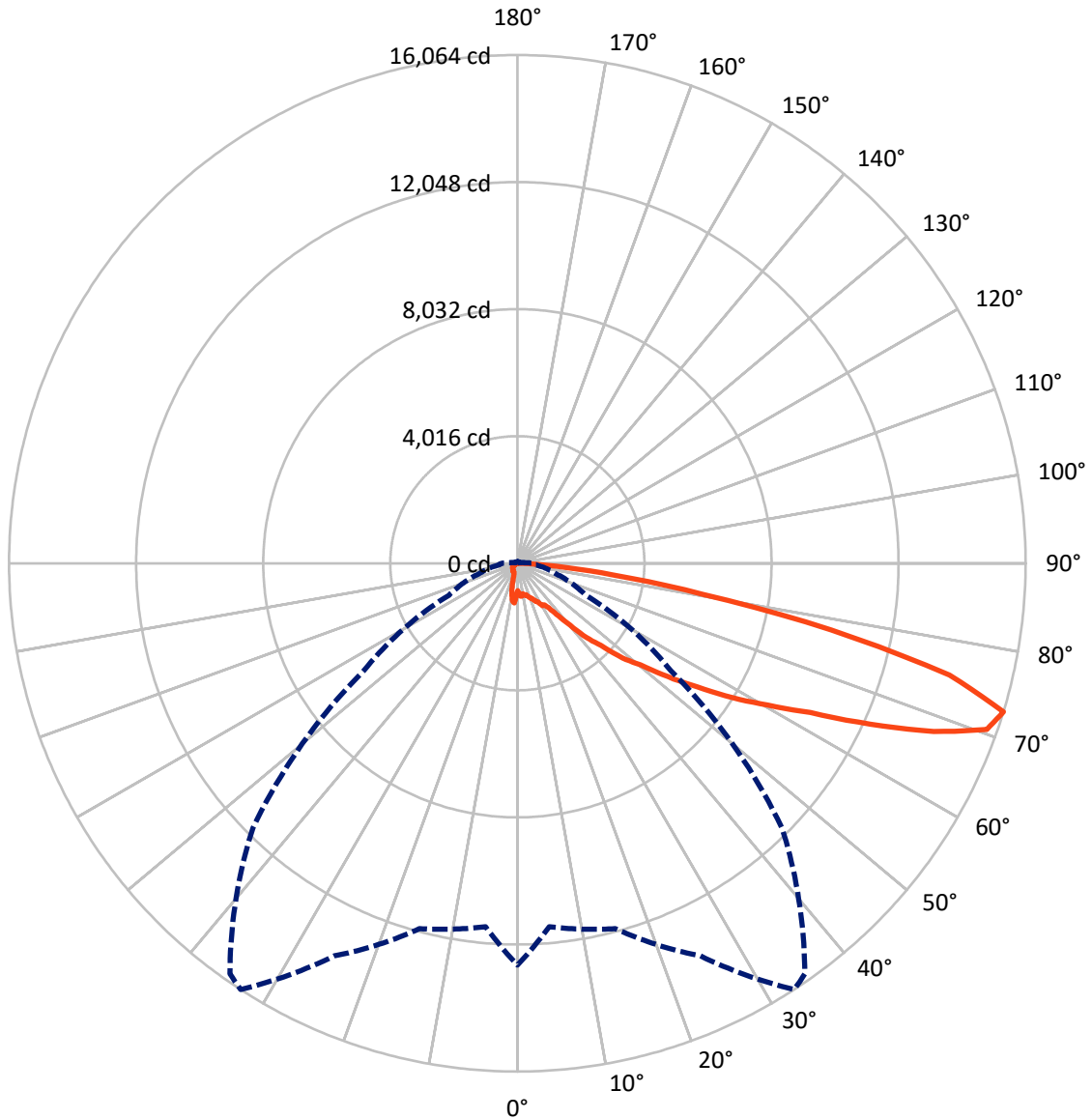
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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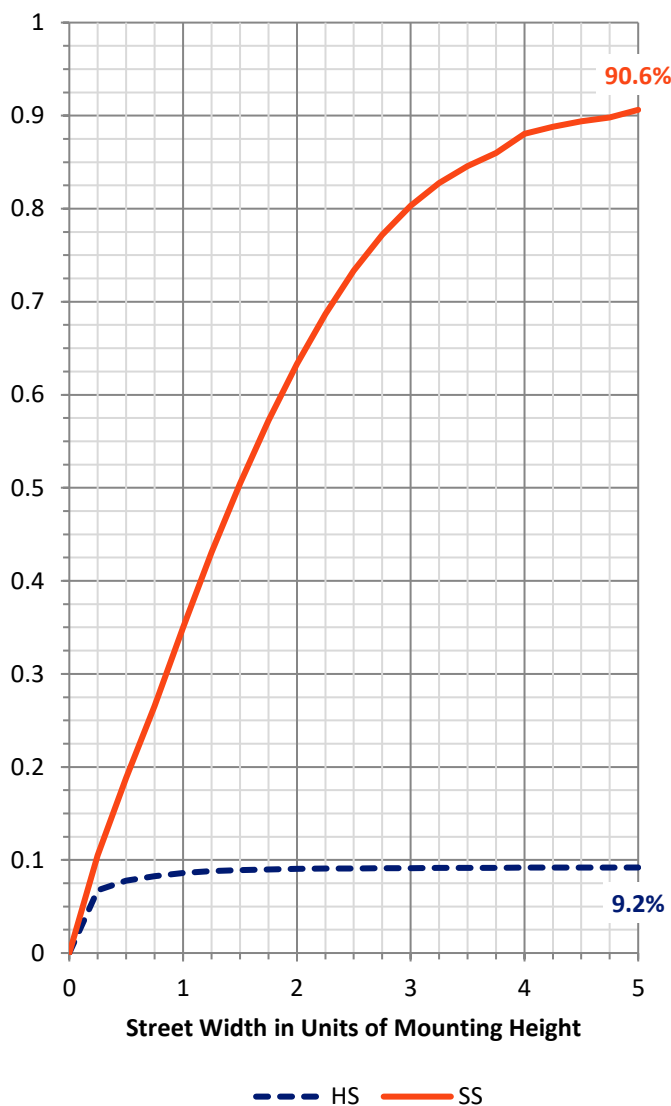
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1501.7	0.0	1501.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	14739.3	0.0	14739.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	16241.0	0.0	16241.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.8	0.7
10°-20°	333.2	2.1
20°-30°	565.0	3.5
30°-40°	1034.0	6.4
40°-50°	2182.4	13.4
50°-60°	3651.4	22.5
60°-70°	4887.5	30.1
70°-80°	3192.6	19.7
80°-90°	283.0	1.7
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°	16241.0	100.0
0°-180°	16241.0	100.0

**Coefficient of Utilization**



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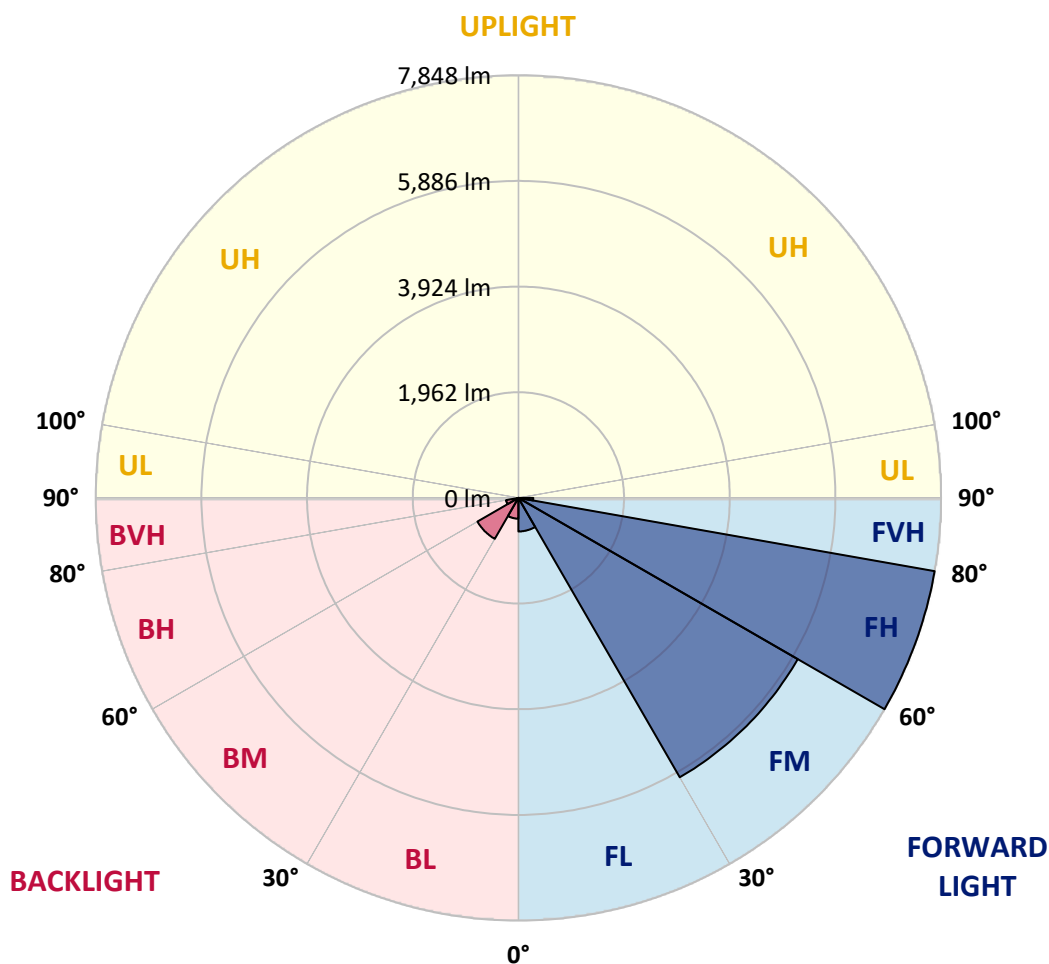
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.5	3.8			
FM (30°-60°)	5989.9	36.9			
FH (60°-80°)	7848.3	48.3			G4/12000
FVH (80°-90°)	277.6	1.7			G3/500
BL (0°-30°)	386.5	2.4	B1/500		
BM (30°-60°)	877.9	5.4	B1/1000		
BH (60°-80°)	231.8	1.4	B1/500		G1/500
BVH (80°-90°)	5.5	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	1029.7	990.1	932.4	936.0	945.9	954.0	975.6	966.6	949.5	948.6	1029.7
5°	1091.1	1046.9	1043.3	1048.7	1046.0	1060.4	1042.4	1101.0	1150.6	1210.1	1305.7
7.5°	1061.3	1040.6	1014.4	1041.5	1040.6	1033.4	1045.1	1164.1	1284.0	1359.8	1517.6
10°	975.6	952.2	972.0	981.1	974.7	1006.3	1084.8	1182.1	1325.5	1484.2	1560.8
12.5°	951.3	965.7	972.9	972.9	1033.4	1049.6	1169.5	1261.5	1431.9	1557.2	1780.0
15°	1046.0	1073.9	1024.3	1013.5	1032.5	1041.5	1174.9	1285.8	1504.0	1733.1	1919.7
17.5°	1196.6	1194.8	1118.1	1075.7	1105.5	1127.1	1201.1	1330.9	1459.0	1871.0	2141.5
20°	1300.3	1302.1	1164.1	1075.7	1174.0	1186.6	1268.7	1372.4	1473.4	1940.5	2286.7
22.5°	1433.7	1385.9	1233.5	1147.9	1214.6	1226.3	1316.5	1398.5	1547.3	1932.4	2472.5
25°	1542.8	1512.2	1320.1	1260.6	1320.1	1303.9	1385.9	1509.5	1626.7	2061.3	2581.6
27.5°	1712.3	1660.0	1381.4	1392.2	1388.6	1400.3	1419.3	1608.6	1766.4	2067.6	2834.1
30°	1870.1	1839.5	1518.5	1518.5	1553.6	1531.1	1544.6	1773.7	1901.7	2213.7	3118.1
32.5°	2033.3	2035.1	1679.9	1594.2	1566.3	1659.1	1750.2	1853.9	2064.9	2464.4	3552.7
35°	2465.3	2429.2	1989.2	1775.5	1752.9	1747.5	1893.6	2174.0	2354.3	2790.8	4137.9
37.5°	3335.4	3210.1	2654.6	2186.6	2101.9	2073.0	2238.9	2526.6	2706.0	3270.5	5105.4
40°	4228.1	3998.2	3381.4	2853.9	2578.9	2454.4	2647.4	2891.8	3211.0	3800.7	6000.8
42.5°	5011.7	4727.6	3928.7	3573.5	3215.5	3161.4	2980.1	3377.8	3932.3	4572.5	6878.2
45°	5775.4	5216.4	4415.6	4134.3	3699.7	3730.4	3669.0	4013.5	4681.6	5418.3	7656.4
47.5°	6301.1	5798.9	5012.6	4647.4	4473.4	4293.9	4780.8	5138.8	5348.9	5955.8	8329.0
50°	6867.4	6358.8	5525.6	5270.5	5041.4	5222.7	5854.8	5902.6	5885.4	6457.1	8787.1
52.5°	7598.7	6999.0	6114.5	5825.9	5955.8	6136.1	6865.6	6874.6	6362.4	6879.1	9117.1
55°	8274.9	7610.4	6898.9	6626.6	6898.0	7050.4	7859.3	7562.6	6640.1	7165.8	9279.4
57.5°	9228.0	8458.9	7942.2	7462.5	8012.5	7866.5	8733.0	8292.1	6952.1	7356.1	9219.9
60°	10432.7	9527.4	9009.8	8502.2	9091.9	9191.1	9586.0	8656.4	7073.0	7418.3	8861.9
62.5°	11658.1	10747.4	10066.6	9722.2	10391.2	10717.7	10375.9	8837.6	6927.8	7296.6	8051.3
65°	13178.4	12012.5	11217.2	11015.2	12255.1	12734.8	11310.1	8881.8	6647.4	6626.6	6473.3
67.5°	14219.9	13084.6	12355.2	12693.3	14191.0	14229.8	12148.7	8895.3	5703.3	5188.4	4248.8
70°	14466.9	13251.4	12925.0	13920.5	15735.6	15247.8	12419.2	8210.0	4229.9	3079.3	1942.3
72.5°	12699.6	11529.2	11953.9	13688.8	16063.9	15840.2	11821.3	5923.3	2381.4	1231.7	596.0
75°	7789.8	7082.0	8967.4	11605.8	14100.8	13956.6	9222.6	3060.4	959.4	492.3	222.7
77.5°	3387.7	3146.0	4679.8	7700.6	10132.4	10003.5	5403.9	1127.1	495.9	346.3	112.7
80°	1120.8	1087.5	1772.8	3646.5	5935.0	5821.4	2276.8	468.9	353.5	277.7	63.1
82.5°	266.0	264.2	618.6	1678.1	3023.4	2928.7	698.8	258.8	256.1	219.1	33.4
85°	66.7	68.5	171.3	686.2	1228.1	1082.9	182.1	128.9	180.3	148.8	17.1
87.5°	0.0	0.0	44.2	98.3	185.8	116.3	19.8	34.3	50.5	53.2	9.0
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°	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8	863.8
2.5°	1047.8	1037.9	956.7	976.5	1007.2	1004.5	1024.3	1009.0	995.5	1062.2	1055.9
5°	1332.7	1278.6	1253.4	1288.5	1269.6	1225.4	1262.4	1256.1	1245.3	1267.8	1284.9
7.5°	1546.4	1496.8	1474.3	1400.3	1293.0	1208.3	1221.8	1190.2	1160.5	1195.7	1231.7
10°	1616.8	1589.7	1587.0	1442.7	1341.7	1219.1	1073.9	948.6	915.2	871.0	890.9
12.5°	1807.9	1824.1	1722.3	1553.6	1358.9	1123.5	865.6	688.0	615.9	569.0	571.7
15°	1964.8	2021.6	1873.7	1570.8	1195.7	856.6	576.2	416.6	371.5	359.8	356.2
17.5°	2198.4	2253.4	1920.6	1449.0	963.9	580.7	370.6	324.6	327.3	335.4	333.6
20°	2371.5	2363.4	1880.1	1233.5	710.5	380.5	310.2	303.9	318.3	341.7	336.3
22.5°	2538.3	2482.4	1854.8	1034.3	459.9	305.7	299.4	298.5	312.0	334.5	340.8
25°	2657.3	2666.3	1812.4	809.7	334.5	284.0	289.4	297.6	311.1	335.4	331.8
27.5°	2998.2	2745.7	1635.7	587.9	282.2	272.3	285.8	302.1	306.6	337.2	338.1
30°	3219.1	3045.1	1520.3	395.8	260.6	251.6	278.6	300.3	305.7	345.4	348.1
32.5°	3604.1	3174.0	1386.8	294.0	242.6	245.3	262.4	291.3	316.5	358.9	360.7
35°	4082.9	3587.9	1145.2	264.2	236.2	231.7	239.9	273.2	314.7	360.7	369.7
37.5°	4994.5	3835.8	908.0	256.1	236.2	228.1	236.2	256.1	309.3	378.7	397.7
40°	5605.0	4340.8	654.6	254.3	231.7	224.5	227.2	247.1	294.0	367.9	395.8
42.5°	6357.0	4553.6	482.4	249.8	227.2	216.4	218.2	243.5	278.6	345.4	366.1
45°	6972.9	4708.7	379.6	248.0	216.4	212.8	216.4	240.8	264.2	296.7	315.6
47.5°	7440.9	4889.0	304.8	236.2	213.7	212.8	208.3	225.4	239.9	248.0	260.6
50°	7783.5	4848.5	252.5	218.2	204.7	210.1	202.0	204.7	208.3	203.8	218.2
52.5°	7993.6	4702.4	210.1	196.6	193.9	198.4	188.5	180.3	174.0	170.4	179.4
55°	8070.3	4409.3	178.5	168.6	174.9	176.7	168.6	154.2	143.4	138.0	145.2
57.5°	7925.1	3963.0	155.1	139.8	154.2	154.2	143.4	128.0	115.4	106.4	113.6
60°	7557.2	3469.8	138.0	116.3	131.6	132.6	119.9	103.7	93.8	84.8	89.3
62.5°	6871.9	2932.3	120.8	101.0	113.6	114.5	99.2	83.9	76.6	66.7	70.3
65°	5501.3	2242.5	102.8	89.3	98.3	95.6	82.1	71.2	62.2	53.2	55.0
67.5°	3570.7	1384.1	89.3	81.2	83.0	80.3	69.4	62.2	52.3	45.1	46.0
70°	1598.7	596.0	78.4	73.0	72.1	67.6	58.6	57.7	51.4	45.1	45.1
72.5°	493.2	224.5	67.6	65.8	62.2	56.8	51.4	55.0	50.5	43.3	42.4
75°	194.8	102.8	55.9	55.9	54.1	46.9	46.0	49.6	46.9	39.7	37.9
77.5°	101.9	64.9	46.0	47.8	46.9	36.1	41.5	45.1	43.3	33.4	28.0
80°	60.4	39.7	34.3	38.8	37.9	25.2	31.6	28.9	20.7	9.9	2.7
82.5°	33.4	18.0	15.3	22.5	22.5	9.0	16.2	14.4	8.1	0.0	0.0
85°	16.2	12.6	11.7	12.6	9.0	2.7	8.1	8.1	4.5	0.0	0.0
87.5°	8.1	7.2	5.4	4.5	3.6	0.0	2.7	3.6	0.0	0.0	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)