

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: P598408

Luminaire Tested: **PMM-SA2D-835-U-T4FT**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-12)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA2D-835-U-T4FT  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11145 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

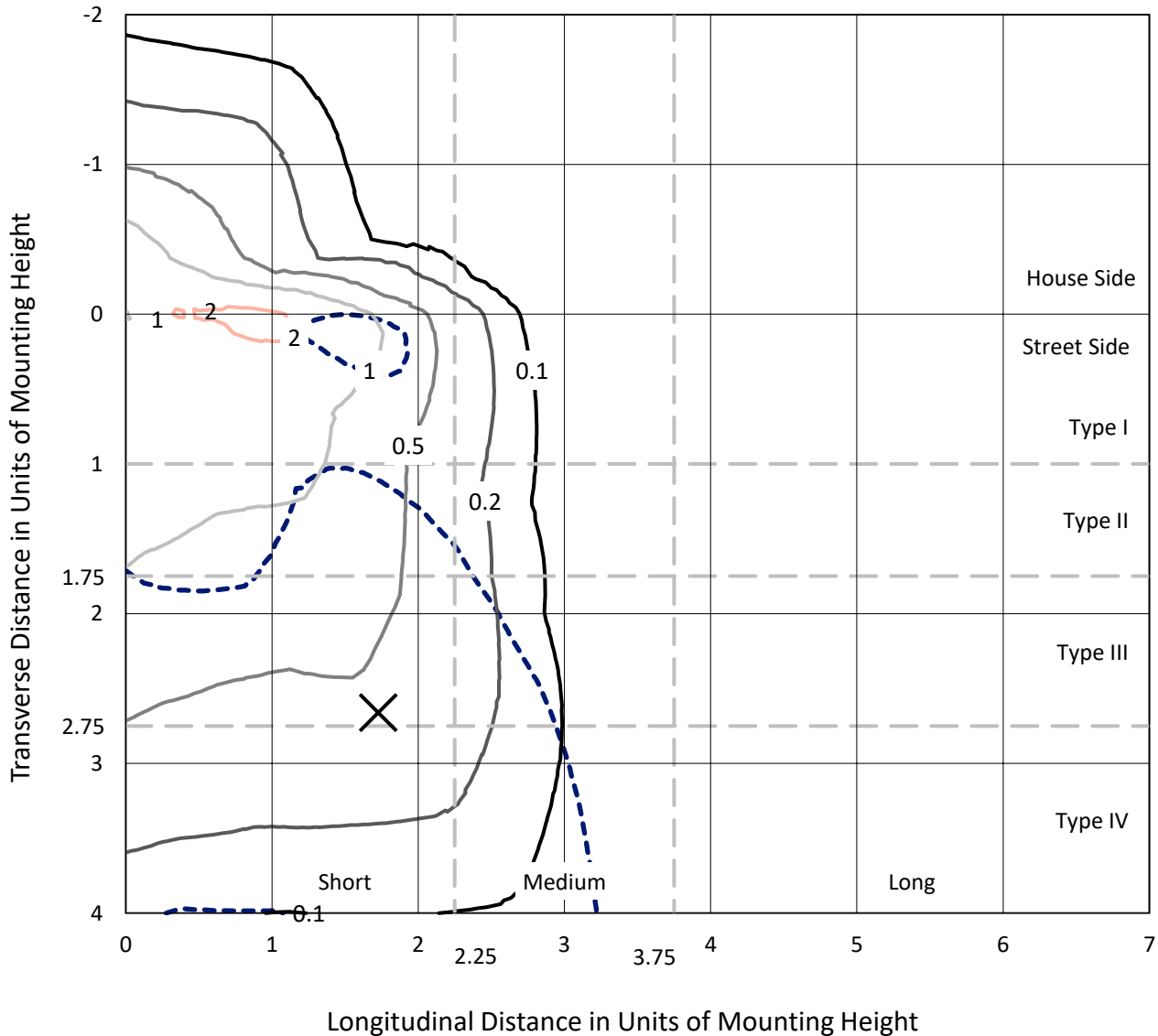
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

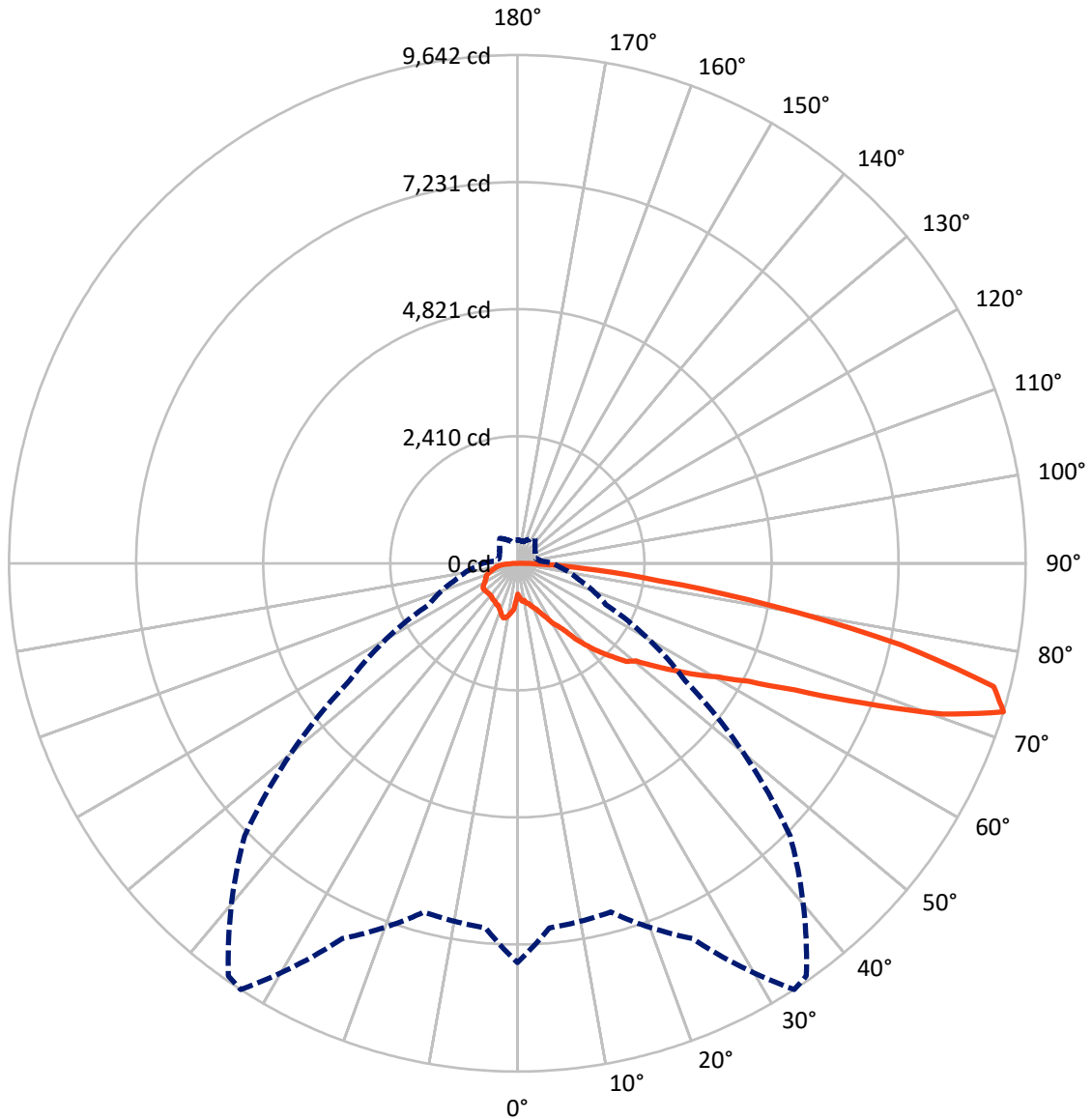
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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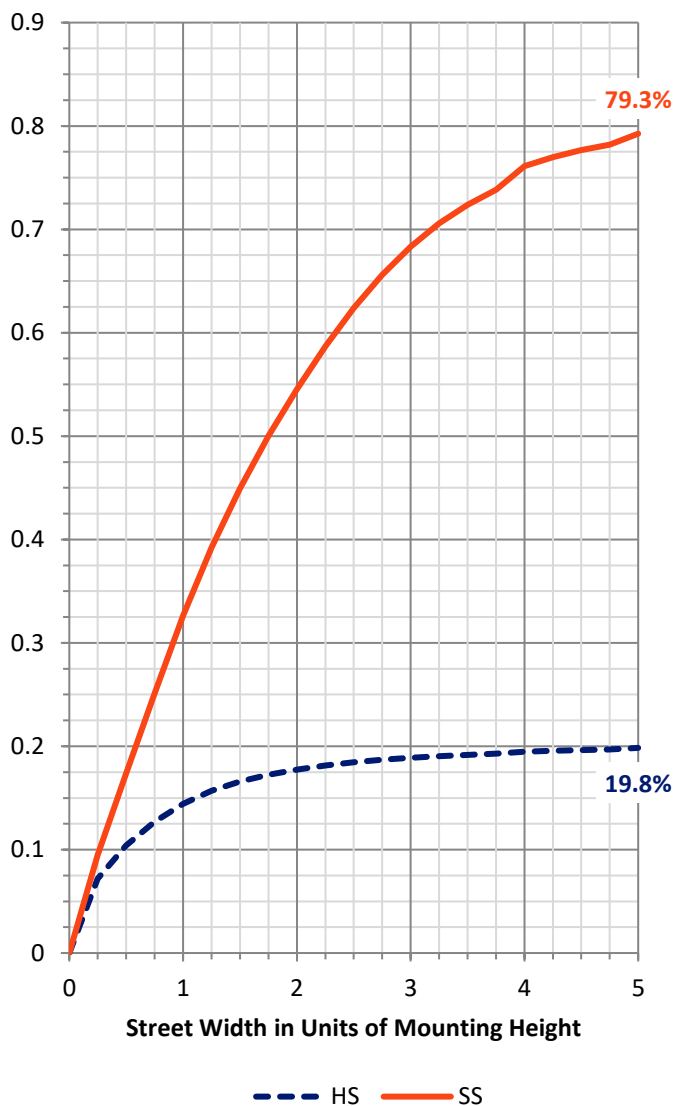
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2254.6	0.0	2254.6
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	8890.4	0.0	8890.4
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	11145.0	0.0	11145.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.4	0.7
10°-20°	296.9	2.7
20°-30°	541.5	4.9
30°-40°	916.1	8.2
40°-50°	1524.0	13.7
50°-60°	2236.6	20.1
60°-70°	2861.2	25.7
70°-80°	2327.8	20.9
80°-90°	360.5	3.2
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°	11145.0	100.0
0°-180°	11145.0	100.0

**Coefficient of Utilization**



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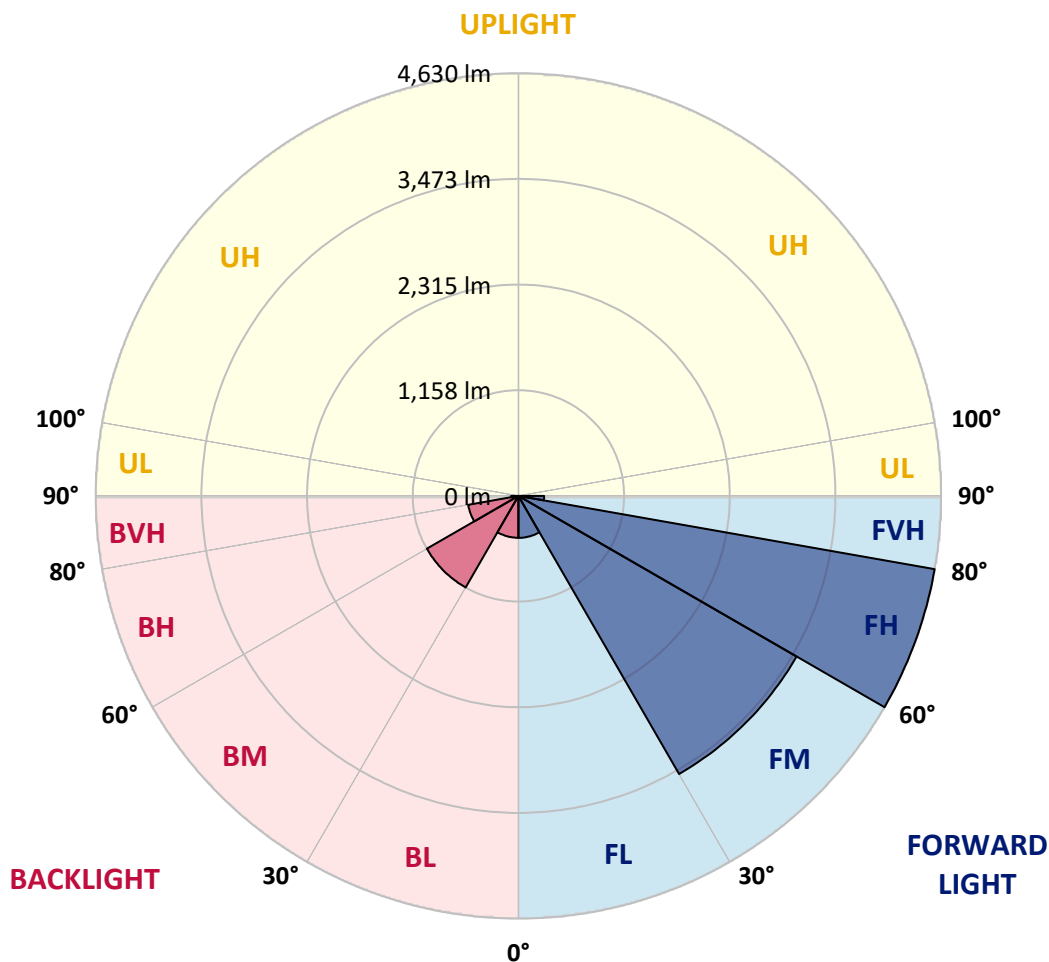
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	460.0	4.1			
FM (30°-60°)	3518.7	31.6			
FH (60°-80°)	4630.3	41.5			G2/5000
FVH (80°-90°)	281.4	2.5			G3/500
BL (0°-30°)	458.9	4.1	B1/500		
BM (30°-60°)	1158.0	10.4	B2/2500		
BH (60°-80°)	558.7	5.0	B2/1000		G2/1000
BVH (80°-90°)	79.1	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4
2.5°	662.5	641.7	607.5	606.6	625.5	629.7	642.2	643.1	647.7	640.3	693.1
5°	731.0	708.8	695.4	700.0	691.2	701.8	701.8	732.3	773.0	820.2	887.2
7.5°	747.1	731.0	715.7	727.3	729.1	718.9	728.7	800.3	873.8	921.0	1028.2
10°	714.8	698.6	710.2	713.9	713.4	736.5	786.9	844.2	926.1	1013.0	1070.8
12.5°	708.8	720.3	725.9	732.3	776.3	783.2	859.5	918.7	1001.0	1077.3	1227.5
15°	798.0	813.3	779.0	776.7	791.1	797.5	876.6	936.2	1056.5	1184.5	1319.5
17.5°	925.1	930.7	869.2	837.8	848.4	853.5	888.2	963.1	1037.0	1273.8	1442.0
20°	1048.1	1051.8	936.2	866.0	903.4	909.0	941.3	984.3	1042.6	1323.7	1524.8
22.5°	1177.1	1153.5	1026.9	938.1	959.8	961.2	980.2	1003.7	1086.5	1315.8	1625.6
25°	1318.1	1303.3	1143.8	1058.8	1057.8	1038.9	1039.8	1073.6	1133.2	1400.0	1691.7
27.5°	1505.4	1507.2	1275.6	1229.8	1158.2	1145.7	1083.3	1146.1	1214.1	1400.9	1834.6
30°	1748.1	1703.3	1459.2	1385.2	1314.4	1288.1	1203.5	1257.1	1286.7	1480.9	1989.9
32.5°	1945.5	1932.6	1650.6	1538.7	1423.1	1453.6	1360.2	1313.1	1366.2	1618.7	2225.3
35°	2134.6	2092.1	1853.1	1707.4	1585.8	1567.3	1506.8	1514.6	1547.0	1793.0	2532.7
37.5°	2416.7	2393.5	2139.7	1906.7	1849.8	1774.5	1736.1	1760.6	1735.2	2016.3	2993.7
40°	2732.0	2597.9	2379.2	2171.6	2065.3	2012.1	2025.5	2002.4	1983.0	2266.9	3407.0
42.5°	3033.9	2911.8	2538.3	2444.9	2306.2	2328.4	2254.8	2271.0	2326.0	2622.4	3789.4
45°	3362.6	3098.6	2707.0	2624.7	2525.3	2553.5	2612.2	2594.7	2684.8	3041.7	4149.5
47.5°	3526.7	3275.7	2914.1	2780.1	2778.7	2720.0	3077.3	3116.2	2975.2	3352.4	4515.2
50°	3684.9	3438.0	3068.1	2977.5	2911.8	3037.6	3523.5	3434.3	3237.8	3708.9	4917.5
52.5°	3904.9	3623.4	3244.7	3148.1	3229.5	3346.0	3879.5	3861.9	3495.3	4075.5	5267.0
55°	4072.8	3788.4	3510.6	3420.9	3576.2	3690.4	4242.0	4136.1	3715.8	4344.6	5488.5
57.5°	4366.8	4075.1	3903.1	3703.8	3983.1	3981.2	4591.5	4509.7	3951.6	4565.6	5577.7
60°	4834.2	4491.7	4311.8	4082.0	4381.2	4488.0	4991.0	4755.2	4118.5	4705.3	5416.8
62.5°	5490.3	5083.5	4791.7	4564.2	4929.0	5122.3	5484.3	4934.1	4129.2	4665.5	4993.8
65°	6301.7	5807.0	5424.7	5184.2	5786.2	6062.2	6080.7	5044.6	4031.2	4254.5	4104.2
67.5°	7093.3	6537.1	6138.1	6183.8	7062.7	7193.6	6727.1	5137.1	3504.6	3416.2	2849.9
70°	7614.3	7011.4	6745.6	7231.0	8566.3	8432.2	7250.9	4893.4	2759.7	2214.6	1604.8
72.5°	7575.0	6943.9	6848.2	7853.3	9641.7	9558.0	7314.7	3891.5	1848.4	1210.9	800.3
75°	6171.3	5680.8	5898.1	7434.5	9331.9	9327.8	6350.7	2408.8	948.3	621.9	505.8
77.5°	3412.1	3221.6	3860.1	5629.0	7430.3	7468.2	4291.0	1092.5	511.4	440.6	381.0
80°	1195.2	1177.6	1672.8	3037.6	4887.9	4897.1	1995.5	499.8	371.7	333.3	279.7
82.5°	436.9	433.2	693.5	1411.1	2691.3	2685.3	756.9	311.2	275.6	235.8	184.5
85°	174.3	170.6	317.2	626.5	1236.3	1216.4	294.0	176.6	180.3	140.6	90.6
87.5°	48.1	49.9	107.7	196.0	378.7	350.9	74.0	59.6	73.1	57.3	28.7
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°	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4	584.4
2.5°	702.3	706.9	661.1	677.3	698.1	709.2	714.8	691.2	699.1	732.3	731.0
5°	901.1	882.6	865.0	883.1	871.1	853.9	881.7	880.3	898.3	916.4	920.5
7.5°	1049.5	1025.5	1017.2	976.5	935.8	894.6	930.2	952.4	957.0	1001.9	1020.9
10°	1103.1	1093.9	1097.1	1043.5	1038.4	1042.6	1009.8	974.2	995.9	977.4	991.3
12.5°	1227.1	1250.2	1192.8	1156.3	1153.1	1127.7	1062.0	1038.9	1014.4	1039.8	1026.9
15°	1326.5	1369.5	1308.0	1243.7	1171.1	1131.8	1075.9	1040.7	1024.6	1030.1	1014.4
17.5°	1472.1	1512.3	1356.0	1257.6	1182.7	1124.9	1039.3	964.4	1004.2	1007.4	989.4
20°	1568.7	1571.5	1372.2	1223.4	1155.9	1055.5	972.3	906.7	952.4	999.1	1019.5
22.5°	1663.0	1642.2	1392.1	1196.1	1058.3	961.2	920.5	916.4	950.6	989.9	994.5
25°	1733.8	1737.0	1403.7	1185.9	1001.0	868.7	868.7	898.8	928.8	1022.2	1017.6
27.5°	1905.3	1779.1	1358.8	1139.2	921.4	814.6	869.2	909.4	923.8	1025.0	1035.2
30°	2030.1	1947.8	1368.1	1059.2	841.0	789.2	834.1	884.5	924.2	1041.2	1037.5
32.5°	2239.6	2018.1	1389.8	946.9	780.9	779.5	819.3	872.4	920.1	1023.6	1029.2
35°	2471.2	2225.3	1329.2	861.3	766.6	774.0	825.3	846.5	902.5	1016.7	1021.8
37.5°	2899.8	2333.4	1290.9	795.2	757.3	778.6	798.0	830.8	887.2	982.0	1015.3
40°	3151.3	2556.3	1148.5	756.9	737.9	774.9	784.6	812.3	842.8	940.4	961.7
42.5°	3482.4	2626.6	1026.9	714.3	728.2	759.6	788.8	795.7	816.0	874.8	913.6
45°	3758.4	2679.3	897.9	680.1	695.4	793.4	795.2	792.0	788.3	810.0	841.9
47.5°	4044.1	2820.7	779.0	642.2	682.9	821.1	798.5	768.9	753.6	756.4	786.0
50°	4359.4	2923.4	694.9	611.2	685.7	821.1	814.2	745.3	714.8	706.9	737.9
52.5°	4636.8	2935.4	631.1	586.2	674.1	792.9	824.8	730.5	679.2	660.2	689.4
55°	4788.0	2783.3	584.9	563.6	644.5	767.5	819.3	722.2	636.2	621.9	647.7
57.5°	4784.8	2530.9	545.6	532.2	610.8	731.9	788.3	676.9	609.8	601.5	626.9
60°	4612.3	2235.0	515.5	506.3	576.1	680.1	732.8	647.3	584.4	580.2	608.0
62.5°	4221.2	1929.4	486.4	479.0	543.7	643.6	706.5	614.5	558.0	557.6	583.9
65°	3456.9	1548.8	459.1	457.3	513.7	607.5	681.5	586.7	530.8	540.0	566.8
67.5°	2382.0	1088.4	430.0	435.5	485.9	572.8	662.5	568.2	502.1	521.1	545.1
70°	1307.0	673.2	397.6	408.7	450.8	532.6	632.9	538.2	464.7	493.8	510.4
72.5°	664.8	448.9	357.4	375.0	407.8	473.4	577.5	494.7	424.4	435.5	444.3
75°	446.6	338.0	312.5	332.0	355.5	417.0	512.3	454.0	386.1	384.7	394.4
77.5°	337.5	264.0	265.4	287.6	302.8	366.6	460.5	419.8	353.7	350.5	364.8
80°	246.9	200.2	213.6	236.7	250.6	329.2	426.7	381.9	309.8	296.8	308.8
82.5°	163.7	141.9	158.1	181.2	192.3	275.1	387.4	324.1	252.4	219.6	221.5
85°	77.2	74.4	94.3	105.4	119.7	170.6	289.9	224.2	160.9	133.2	139.2
87.5°	17.6	23.6	31.0	30.5	35.6	45.8	90.2	62.9	46.7	31.9	21.3
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)