

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: P598537

Luminaire Tested: **PMM-SA4B-835-U-T3-HSS**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P598537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4B-835-U-T3-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11829 lumens  
Efficiency: N/A  
Efficacy: 69.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

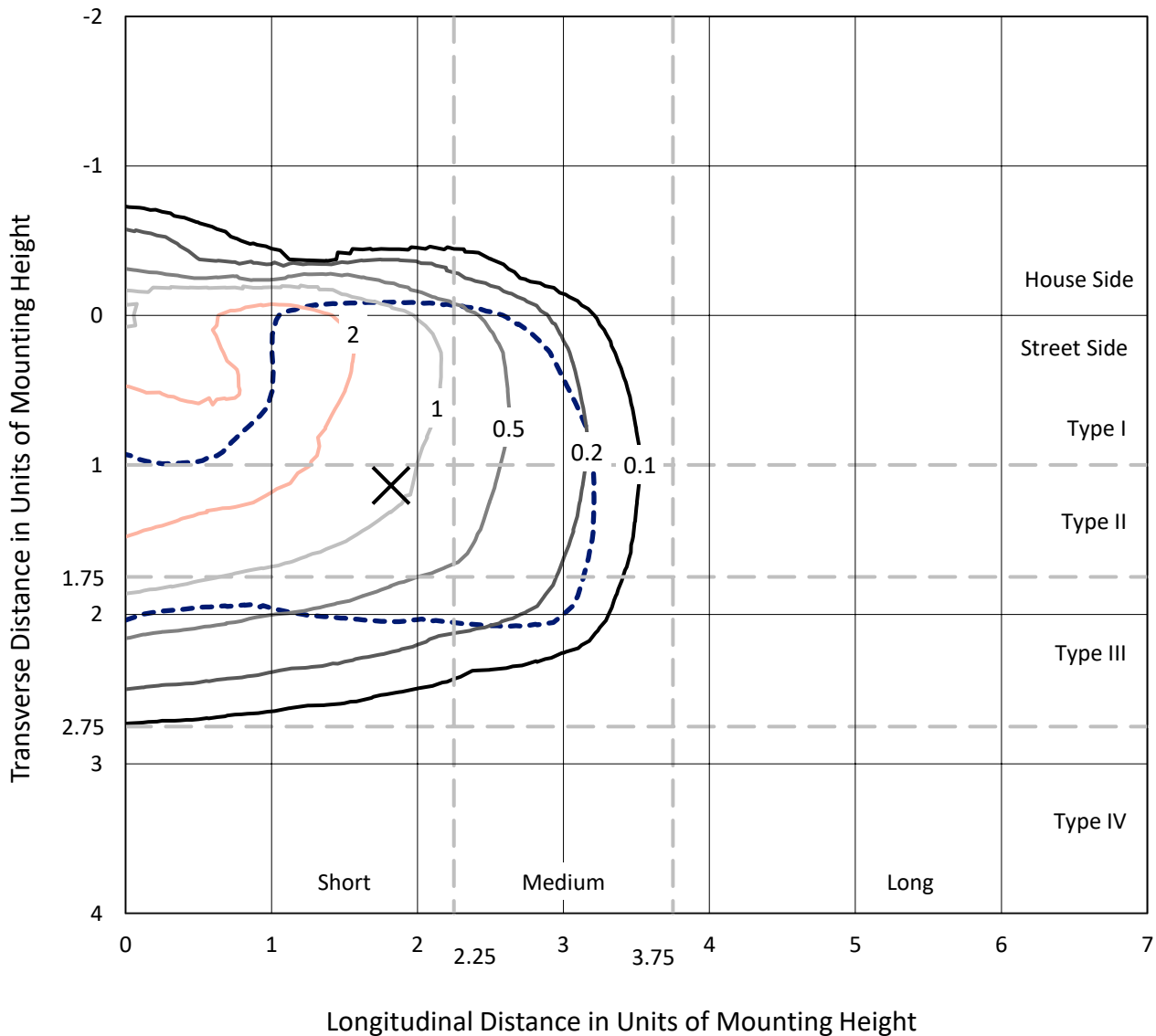
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

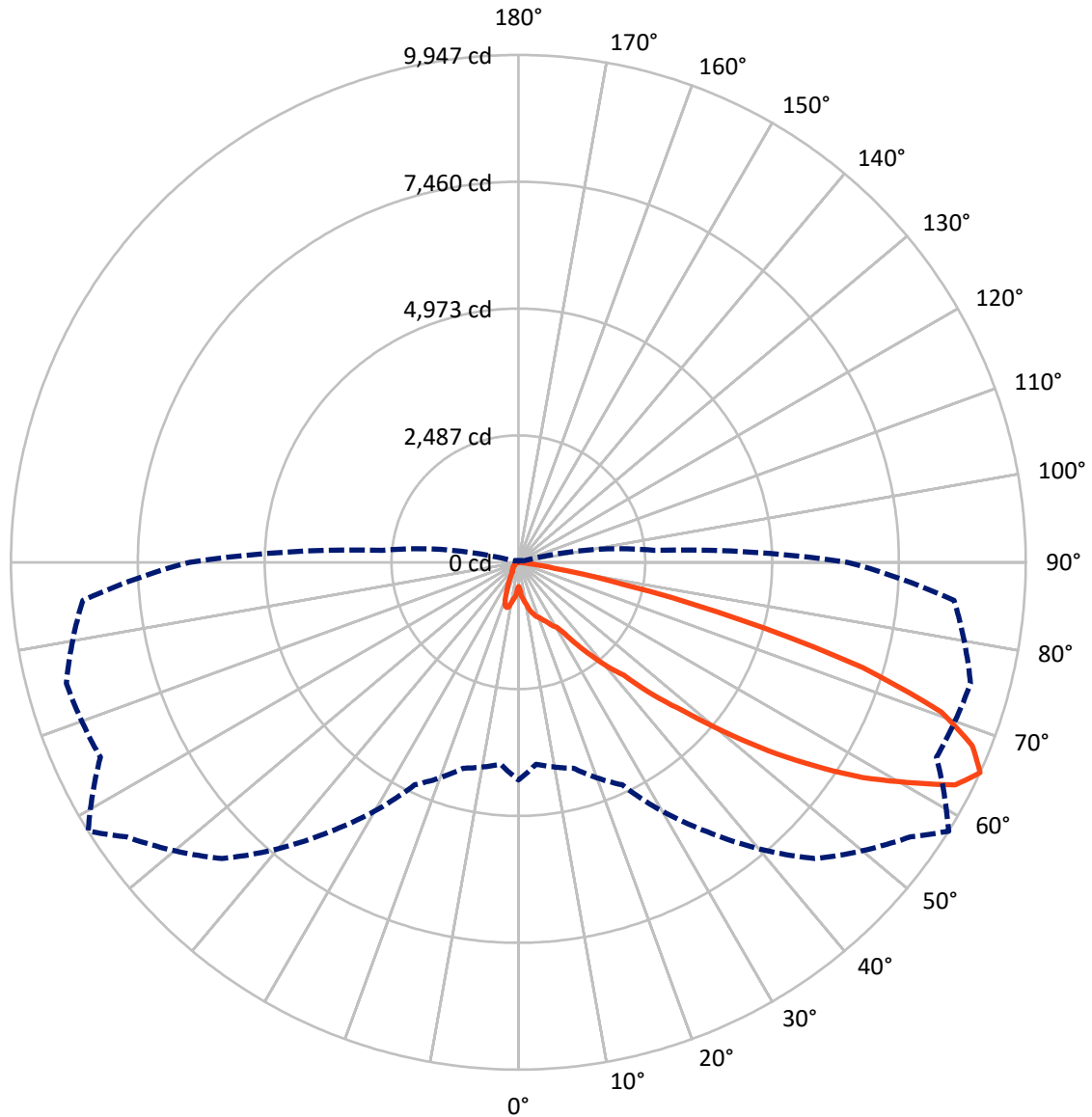
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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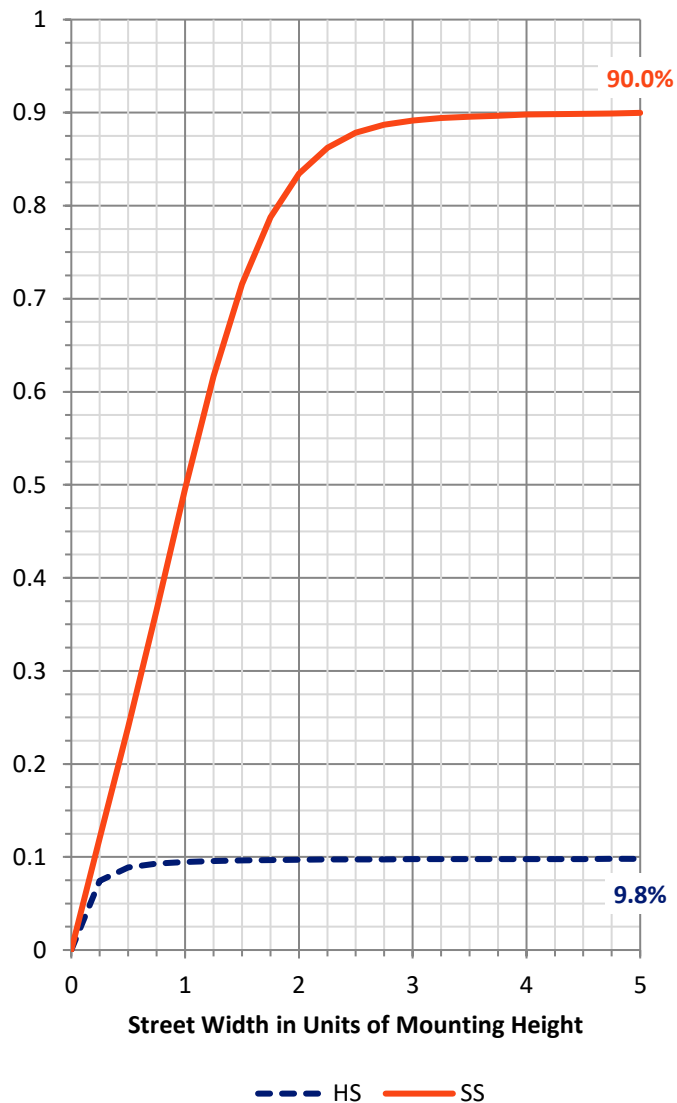
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1167.2	0.0	1167.2
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	10661.8	0.0	10661.8
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	11829.0	0.0	11829.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	0.6
10°-20°	242.8	2.1
20°-30°	470.0	4.0
30°-40°	937.7	7.9
40°-50°	1917.1	16.2
50°-60°	3400.3	28.7
60°-70°	3584.8	30.3
70°-80°	1162.2	9.8
80°-90°	47.5	0.4
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°	11829.0	100.0
0°-180°	11829.0	100.0

**Coefficient of Utilization**



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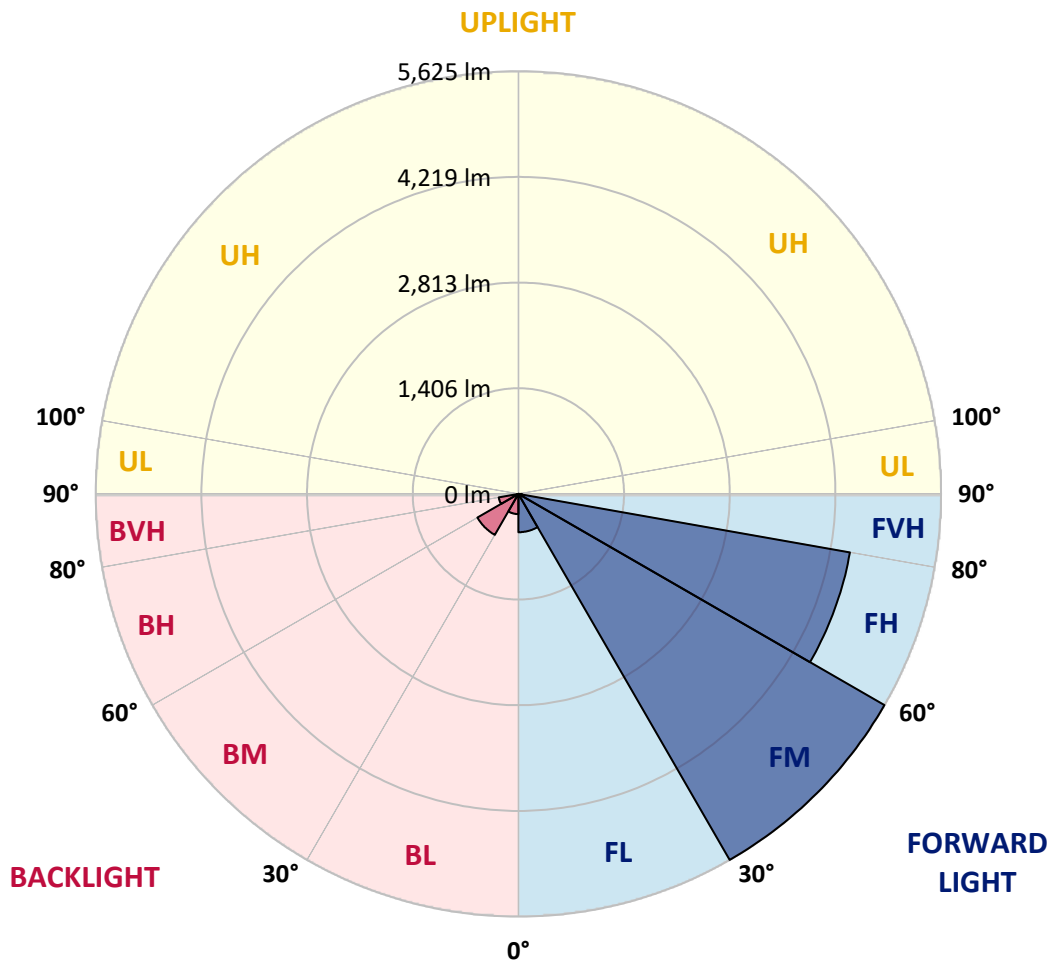
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.3	4.3			
FM (30°-60°)	5625.3	47.6			
FH (60°-80°)	4480.7	37.9			G2/5000
FVH (80°-90°)	45.5	0.4			G1/100
BL (0°-30°)	269.0	2.3	B1/500		
BM (30°-60°)	629.8	5.3	B1/1000		
BH (60°-80°)	266.4	2.3	B1/500		G1/500
BVH (80°-90°)	2.0	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5
2.5°	578.1	560.8	533.5	538.1	543.5	554.1	545.5	537.5	528.8	517.5	560.8
5°	698.0	669.3	666.7	660.7	656.0	655.4	666.0	662.7	667.3	688.7	710.6
7.5°	741.9	729.9	707.3	716.6	702.0	690.7	737.9	753.3	782.6	792.6	849.8
10°	737.3	720.0	729.3	733.9	743.9	785.2	815.2	831.8	857.2	911.8	900.4
12.5°	758.6	773.9	783.9	784.6	835.8	911.8	933.1	947.1	992.4	1013.7	1069.6
15°	829.8	855.2	839.2	845.8	862.5	955.1	1005.0	1035.6	1099.6	1168.8	1182.8
17.5°	931.7	947.7	914.4	890.5	936.4	987.0	1077.6	1109.6	1150.2	1312.0	1342.0
20°	1060.3	1087.6	1015.7	920.4	981.0	1041.0	1139.5	1154.9	1198.2	1409.3	1456.6
22.5°	1360.7	1320.0	1210.1	1061.6	1043.6	1070.3	1164.2	1224.1	1297.4	1463.9	1573.8
25°	1657.0	1643.0	1481.2	1315.4	1195.5	1135.5	1260.1	1293.4	1413.3	1593.8	1654.4
27.5°	1986.7	2014.7	1744.3	1643.7	1408.6	1212.8	1320.0	1403.3	1545.1	1641.0	1786.9
30°	2421.6	2377.0	2060.0	1959.4	1691.0	1425.3	1475.2	1480.5	1689.0	1796.9	1935.4
32.5°	2762.6	2791.2	2393.0	2238.5	2024.0	1752.3	1591.8	1661.0	1810.2	2050.6	2181.8
35°	3131.6	3128.9	2740.6	2532.8	2252.4	2019.3	1937.4	1988.0	2175.2	2447.6	2482.2
37.5°	3683.0	3635.7	3177.5	2873.2	2634.7	2435.6	2373.0	2305.7	2498.9	2758.6	2888.5
40°	4203.2	4040.0	3616.4	3255.5	2950.4	2869.2	2642.7	2684.0	2741.3	3084.3	3443.3
42.5°	4728.7	4627.4	4061.3	3759.0	3384.0	3190.9	3043.0	3023.7	3296.1	3702.4	4073.3
45°	5422.0	5112.3	4659.4	4393.7	3959.4	3765.6	3646.4	3717.7	3962.8	4556.2	4803.3
47.5°	6004.1	5719.0	5330.1	4926.5	4470.9	4688.7	4464.9	4352.4	4688.7	5302.1	5630.4
50°	6504.3	6186.6	5793.0	5493.9	5420.0	5629.1	5176.2	5217.5	5436.0	6156.6	6341.7
52.5°	6867.9	6533.6	6189.9	6045.4	6348.4	6453.6	6226.5	6135.3	6333.8	6885.2	6975.1
55°	7141.6	6799.3	6530.9	6730.0	7316.1	7281.5	7361.4	7049.7	7239.5	7645.1	7602.5
57.5°	7158.3	6752.7	6595.5	6915.8	7720.4	8256.5	8490.3	7960.2	8068.0	8239.2	8143.3
60°	6634.8	6231.2	6218.5	6673.4	7837.6	8508.9	9020.4	8762.0	8617.5	8744.7	8562.9
62.5°	5591.8	5309.4	5441.3	5944.1	7401.4	8369.7	9302.8	9613.9	9051.1	9079.7	8821.3
65°	4269.8	3973.4	4179.9	4813.3	6447.6	8213.9	9382.8	9946.9	9043.1	9175.0	8573.5
67.5°	2827.9	2656.0	2889.8	3587.8	5126.3	7250.9	9341.5	9597.2	8756.0	8802.7	7653.8
70°	1459.9	1417.9	1607.1	2157.9	3446.6	5570.5	8935.9	8796.0	8173.3	7583.2	5903.5
72.5°	467.5	469.5	651.4	985.7	1858.2	3391.3	6868.6	7060.4	6540.2	5547.2	3604.4
75°	207.1	203.8	272.4	413.6	774.6	1520.5	4267.1	4474.3	4072.0	3051.7	1515.2
77.5°	149.2	144.5	174.5	241.8	383.6	515.5	2000.7	2159.2	1846.2	1057.6	347.0
80°	105.2	104.6	126.5	169.8	239.8	229.1	632.0	708.6	567.4	256.4	101.9
82.5°	59.3	61.3	87.9	119.9	145.9	114.6	177.8	195.8	191.1	136.5	44.6
85°	28.6	32.0	57.3	86.6	76.6	44.6	63.3	68.6	79.9	79.3	22.6
87.5°	0.0	0.0	23.3	39.3	20.6	6.7	19.3	22.0	21.3	25.3	5.3
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°	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5	473.5
2.5°	569.4	565.4	514.8	518.8	530.1	525.5	529.5	520.2	509.5	552.8	552.1
5°	720.0	690.0	674.0	659.4	662.0	632.0	649.4	657.4	656.0	680.7	687.3
7.5°	851.8	811.9	779.9	749.3	702.6	660.7	686.7	703.3	714.6	757.3	773.9
10°	913.8	881.1	868.5	808.5	775.2	749.3	718.0	695.3	704.6	693.3	704.6
12.5°	1049.6	1027.7	979.0	918.4	878.5	825.2	708.6	611.4	551.5	552.1	548.1
15°	1173.5	1172.2	1099.6	999.0	883.1	731.3	549.5	426.9	370.3	354.3	349.0
17.5°	1335.4	1315.4	1182.8	1034.3	825.9	566.1	374.3	292.4	287.1	296.4	292.4
20°	1438.6	1409.3	1224.1	983.0	680.7	383.0	282.4	259.1	275.1	288.4	285.1
22.5°	1541.8	1497.9	1255.4	920.4	484.2	280.4	255.1	251.1	261.1	277.7	280.4
25°	1598.4	1589.8	1316.7	803.2	331.7	245.8	245.8	244.4	247.8	259.7	257.7
27.5°	1762.9	1645.7	1270.7	626.7	256.4	225.8	229.1	227.8	215.8	227.8	228.4
30°	1865.5	1811.5	1274.1	446.2	225.8	199.8	208.5	197.8	179.8	189.8	187.8
32.5°	2072.0	1937.4	1264.1	301.0	205.8	190.5	177.2	161.8	148.5	152.5	149.2
35°	2312.4	2209.8	1128.9	241.8	191.8	168.5	147.2	131.9	117.9	121.2	120.5
37.5°	2790.6	2464.9	1017.0	217.8	182.5	154.5	129.9	108.6	101.2	103.2	105.2
40°	3233.5	2890.5	808.5	207.1	166.5	137.9	107.2	91.9	87.2	88.6	90.6
42.5°	3895.5	3228.8	610.7	196.5	150.5	116.6	89.2	79.3	74.6	77.3	78.6
45°	4536.2	3516.5	456.2	187.1	137.2	100.6	75.3	68.6	63.3	65.3	67.9
47.5°	5176.2	3836.2	340.3	172.5	122.5	86.6	64.6	59.9	56.6	57.3	60.6
50°	5749.0	3985.4	267.7	154.5	110.6	75.3	58.6	53.9	52.6	53.3	55.9
52.5°	6169.9	3986.7	225.8	138.5	99.2	66.6	55.3	50.0	49.3	50.6	53.3
55°	6550.2	3880.2	195.8	124.5	89.2	60.6	52.6	48.0	48.0	49.3	51.9
57.5°	6802.6	3684.4	169.8	109.9	80.6	57.3	50.6	46.0	45.3	44.6	46.6
60°	6925.8	3417.3	143.9	96.6	72.6	55.3	49.3	40.6	40.0	38.6	40.0
62.5°	6847.9	3083.0	120.5	83.3	64.6	52.6	43.3	35.3	34.0	31.3	33.3
65°	6449.6	2676.7	101.9	71.3	55.9	44.6	36.6	30.0	26.6	23.3	22.6
67.5°	5635.1	2174.5	85.2	61.3	48.0	36.6	30.0	26.6	20.6	18.0	17.3
70°	4223.2	1484.5	70.6	52.6	40.0	31.3	25.3	24.0	19.3	17.3	16.0
72.5°	2477.6	801.2	59.3	46.0	34.0	26.0	20.6	22.0	19.3	16.0	14.7
75°	989.7	266.4	47.3	36.6	27.3	18.6	17.3	18.0	17.3	14.7	12.0
77.5°	225.8	83.9	36.6	28.6	21.3	12.0	14.0	15.3	15.3	12.0	8.7
80°	70.6	33.3	21.3	18.0	15.3	6.7	10.0	10.7	7.3	3.3	0.0
82.5°	22.6	9.3	7.3	7.3	6.7	1.3	2.0	1.3	0.0	0.0	0.0
85°	8.7	6.0	4.7	4.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.7	2.0	2.7	1.3	0.0	0.0	0.0	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)