

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: P367011

Luminaire Tested: **PMM-SA1D-727-U-T3-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1D-727-U-T3-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS  
EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

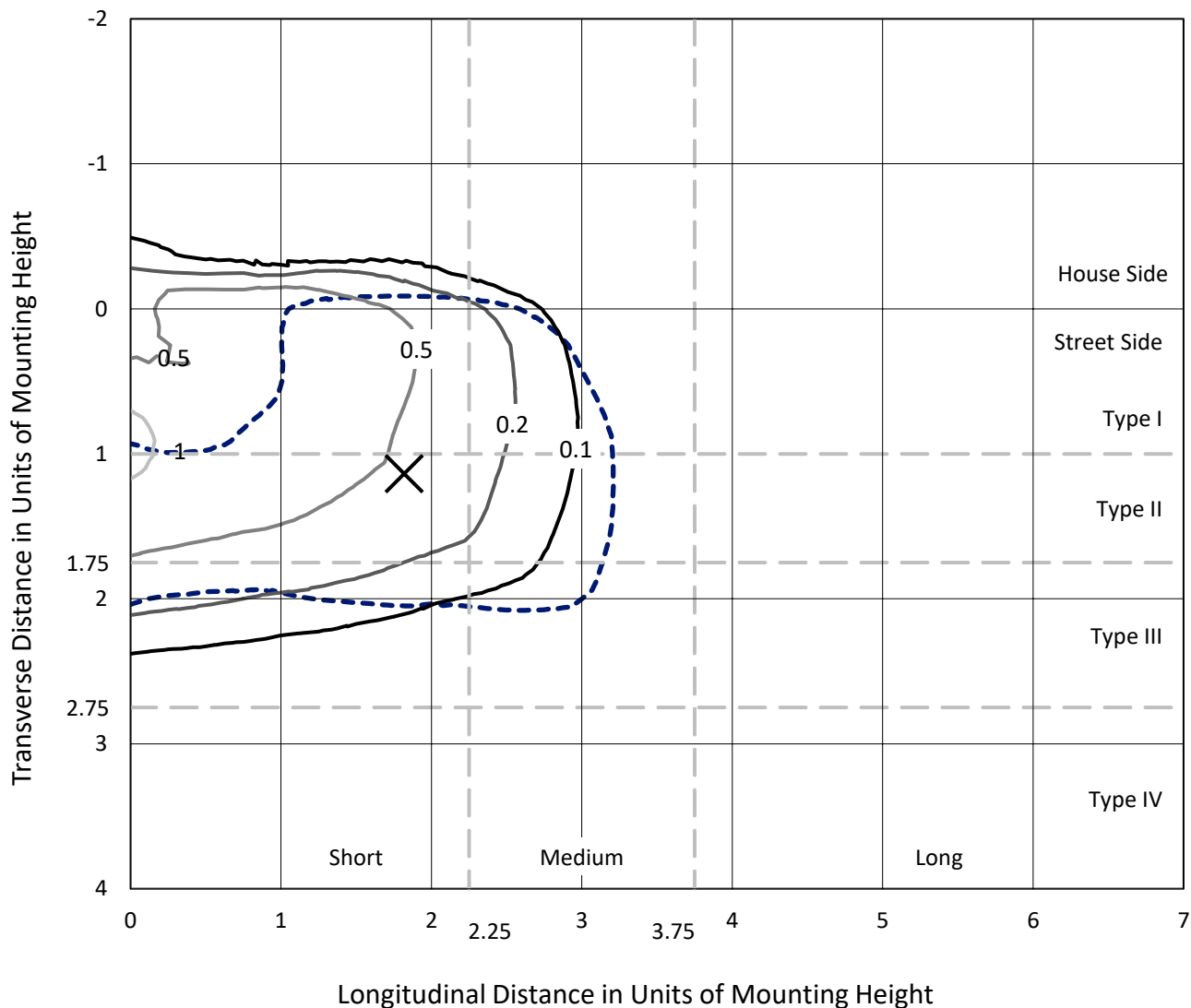
Lumens per Lamp: N/A  
Luminaire Lumens: 4235 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

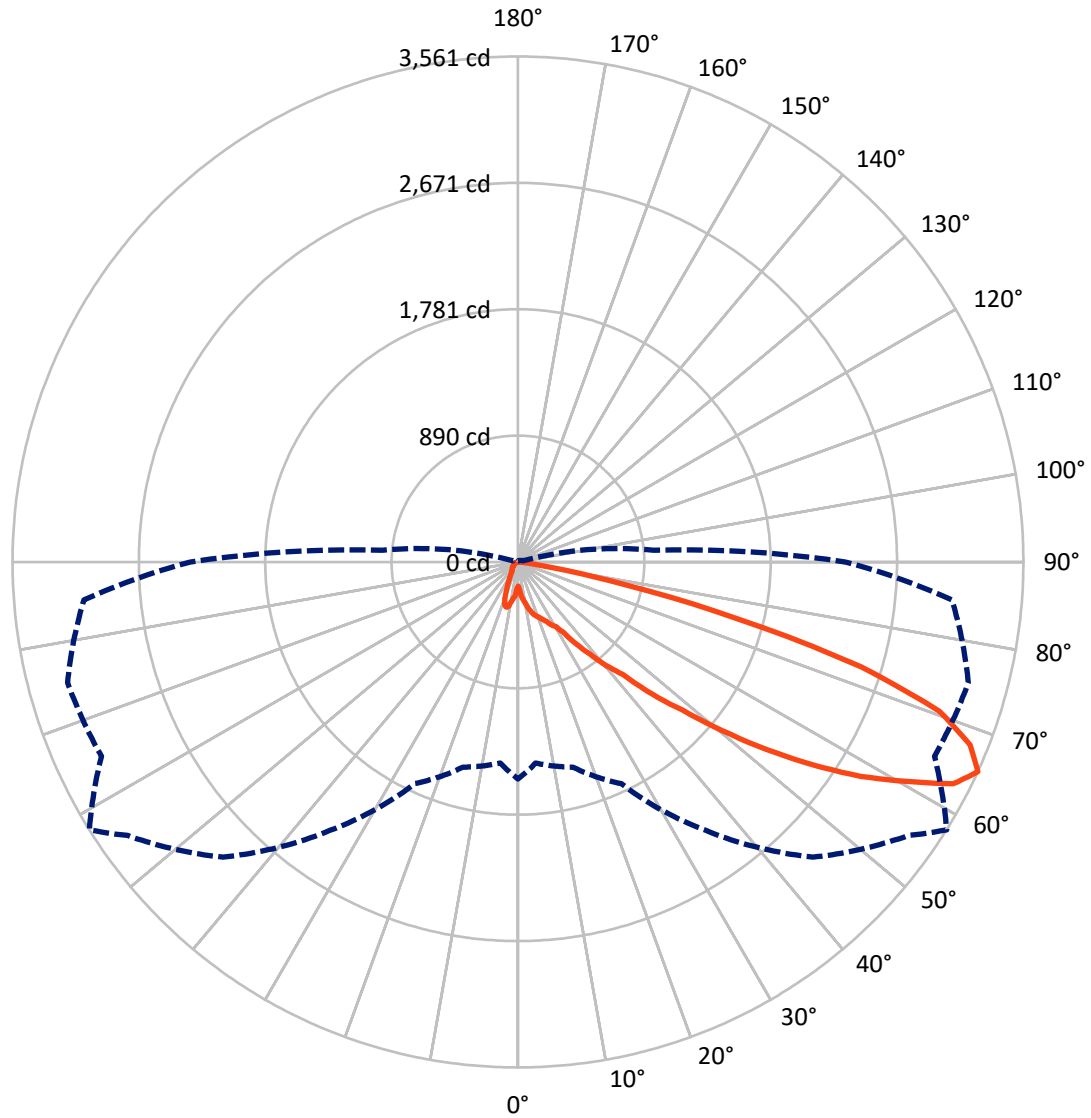
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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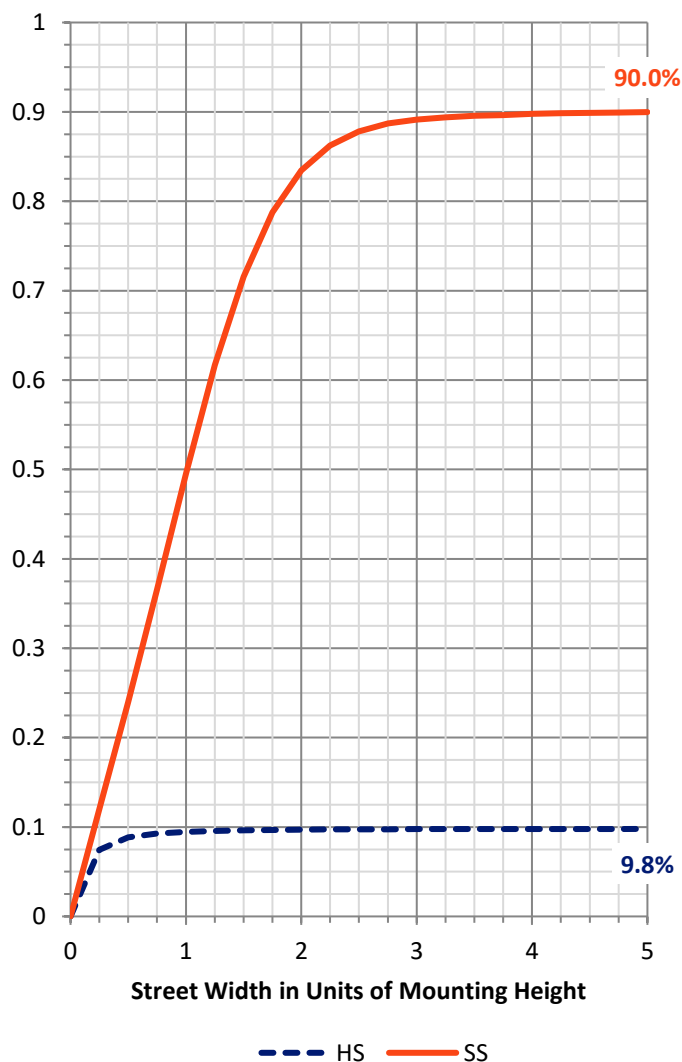
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	417.9	0.0	417.9
	% Fixture	9.9	0.0	9.9
<b>Street Side</b>	Lumens	3817.1	0.0	3817.1
	% Fixture	90.1	0.0	90.1
<b>Total</b>	Lumens	4235.0	0.0	4235.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.8	0.6
10°-20°	86.9	2.1
20°-30°	168.3	4.0
30°-40°	335.7	7.9
40°-50°	686.3	16.2
50°-60°	1217.4	28.7
60°-70°	1283.4	30.3
70°-80°	416.1	9.8
80°-90°	17.0	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°	4235.0	100.0
0°-180°	4235.0	100.0

**Coefficient of Utilization**

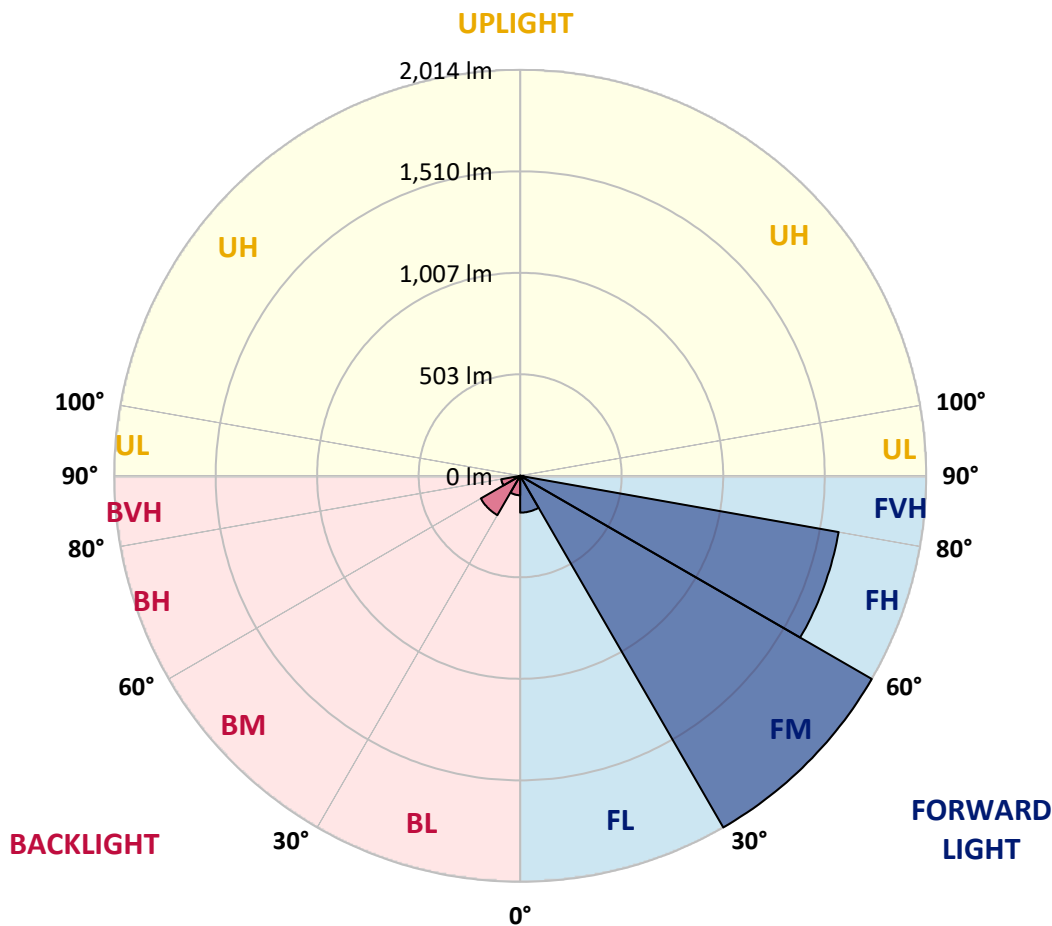


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.7	4.3			
FM (30°-60°)	2014.0	47.6			
FH (60°-80°)	1604.2	37.9			G1/1800
FVH (80°-90°)	16.3	0.4			G1/100
BL (0°-30°)	96.3	2.3	B0/110		
BM (30°-60°)	225.5	5.3	B1/1000		
BH (60°-80°)	95.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	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-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	207.0	200.8	191.0	192.7	194.6	198.4	195.3	192.4	189.3	185.3	200.8
5°	249.9	239.6	238.7	236.5	234.9	234.6	238.4	237.3	238.9	246.6	254.4
7.5°	265.6	261.3	253.2	256.6	251.3	247.3	264.2	269.7	280.2	283.7	304.3
10°	264.0	257.8	261.1	262.8	266.3	281.1	291.9	297.8	306.9	326.4	322.4
12.5°	271.6	277.1	280.6	280.9	299.2	326.4	334.1	339.1	355.3	362.9	382.9
15°	297.1	306.2	300.4	302.8	308.8	341.9	359.8	370.8	393.7	418.5	423.5
17.5°	333.6	339.3	327.4	318.8	335.3	353.4	385.8	397.2	411.8	469.7	480.5
20°	379.6	389.4	363.6	329.5	351.2	372.7	408.0	413.5	429.0	504.5	521.5
22.5°	487.1	472.6	433.3	380.1	373.6	383.2	416.8	438.3	464.5	524.1	563.4
25°	593.2	588.2	530.3	470.9	428.0	406.5	451.1	463.1	506.0	570.6	592.3
27.5°	711.3	721.3	624.5	588.5	504.3	434.2	472.6	502.4	553.2	587.5	639.7
30°	867.0	851.0	737.5	701.5	605.4	510.3	528.2	530.1	604.7	643.3	692.9
32.5°	989.1	999.3	856.7	801.4	724.6	627.3	569.9	594.7	648.1	734.2	781.1
35°	1121.2	1120.2	981.2	906.8	806.4	723.0	693.6	711.8	778.8	876.3	888.7
37.5°	1318.6	1301.7	1137.6	1028.6	943.3	872.0	849.6	825.5	894.6	987.6	1034.1
40°	1504.8	1446.4	1294.8	1165.5	1056.3	1027.2	946.1	960.9	981.4	1104.2	1232.8
42.5°	1693.0	1656.7	1454.0	1345.8	1211.5	1142.4	1089.5	1082.5	1180.1	1325.5	1458.3
45°	1941.2	1830.3	1668.2	1573.0	1417.5	1348.2	1305.5	1331.0	1418.7	1631.2	1719.7
47.5°	2149.6	2047.5	1908.3	1763.8	1600.7	1678.6	1598.5	1558.2	1678.6	1898.3	2015.8
50°	2328.6	2214.9	2074.0	1966.9	1940.5	2015.3	1853.2	1868.0	1946.2	2204.2	2270.5
52.5°	2458.8	2339.1	2216.1	2164.4	2272.8	2310.5	2229.2	2196.5	2267.6	2465.0	2497.2
55°	2556.8	2434.3	2338.2	2409.5	2619.3	2606.9	2635.5	2523.9	2591.9	2737.1	2721.8
57.5°	2562.8	2417.6	2361.3	2476.0	2764.0	2956.0	3039.7	2849.9	2888.5	2949.8	2915.5
60°	2375.4	2230.9	2226.4	2389.2	2806.0	3046.4	3229.5	3137.0	3085.2	3130.8	3065.7
62.5°	2002.0	1900.9	1948.1	2128.1	2649.8	2996.5	3330.6	3441.9	3240.5	3250.7	3158.2
65°	1528.7	1422.6	1496.5	1723.2	2308.4	2940.7	3359.2	3561.2	3237.6	3284.8	3069.5
67.5°	1012.4	950.9	1034.6	1284.5	1835.3	2595.9	3344.4	3436.0	3134.8	3151.5	2740.2
70°	522.7	507.6	575.4	772.6	1233.9	1994.3	3199.2	3149.1	2926.2	2714.9	2113.6
72.5°	167.4	168.1	233.2	352.9	665.3	1214.2	2459.1	2527.7	2341.5	1986.0	1290.5
75°	74.2	73.0	97.5	148.1	277.3	544.4	1527.7	1601.9	1457.8	1092.5	542.5
77.5°	53.4	51.7	62.5	86.6	137.3	184.6	716.3	773.0	661.0	378.6	124.2
80°	37.7	37.4	45.3	60.8	85.8	82.0	226.3	253.7	203.2	91.8	36.5
82.5°	21.2	21.9	31.5	42.9	52.2	41.0	63.7	70.1	68.4	48.9	16.0
85°	10.3	11.4	20.5	31.0	27.4	16.0	22.7	24.6	28.6	28.4	8.1
87.5°	0.0	0.0	8.3	14.1	7.4	2.4	6.9	7.9	7.6	9.1	1.9
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°	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5	169.5
2.5°	203.9	202.4	184.3	185.7	189.8	188.1	189.6	186.2	182.4	197.9	197.7
5°	257.8	247.0	241.3	236.1	237.0	226.3	232.5	235.3	234.9	243.7	246.1
7.5°	305.0	290.7	279.2	268.2	251.6	236.5	245.8	251.8	255.9	271.1	277.1
10°	327.1	315.5	310.9	289.5	277.5	268.2	257.0	248.9	252.3	248.2	252.3
12.5°	375.8	367.9	350.5	328.8	314.5	295.4	253.7	218.9	197.4	197.7	196.2
15°	420.1	419.7	393.7	357.7	316.2	261.8	196.7	152.8	132.6	126.9	124.9
17.5°	478.1	470.9	423.5	370.3	295.7	202.7	134.0	104.7	102.8	106.1	104.7
20°	515.0	504.5	438.3	351.9	243.7	137.1	101.1	92.8	98.5	103.2	102.1
22.5°	552.0	536.3	449.5	329.5	173.3	100.4	91.3	89.9	93.5	99.4	100.4
25°	572.3	569.2	471.4	287.6	118.7	88.0	88.0	87.5	88.7	93.0	92.3
27.5°	631.2	589.2	455.0	224.4	91.8	80.8	82.0	81.5	77.3	81.5	81.8
30°	667.9	648.6	456.1	159.8	80.8	71.5	74.6	70.8	64.4	68.0	67.2
32.5°	741.8	693.6	452.6	107.8	73.7	68.2	63.4	57.9	53.2	54.6	53.4
35°	827.9	791.2	404.2	86.6	68.7	60.3	52.7	47.2	42.2	43.4	43.2
37.5°	999.1	882.5	364.1	78.0	65.3	55.3	46.5	38.9	36.2	37.0	37.7
40°	1157.6	1034.8	289.5	74.2	59.6	49.4	38.4	32.9	31.2	31.7	32.4
42.5°	1394.7	1156.0	218.7	70.3	53.9	41.7	32.0	28.4	26.7	27.7	28.1
45°	1624.0	1259.0	163.3	67.0	49.1	36.0	26.9	24.6	22.7	23.4	24.3
47.5°	1853.2	1373.4	121.8	61.8	43.9	31.0	23.1	21.5	20.3	20.5	21.7
50°	2058.2	1426.8	95.9	55.3	39.6	26.9	21.0	19.3	18.8	19.1	20.0
52.5°	2208.9	1427.3	80.8	49.6	35.5	23.8	19.8	17.9	17.6	18.1	19.1
55°	2345.1	1389.2	70.1	44.6	32.0	21.7	18.8	17.2	17.2	17.6	18.6
57.5°	2435.5	1319.1	60.8	39.3	28.9	20.5	18.1	16.5	16.2	16.0	16.7
60°	2479.6	1223.5	51.5	34.6	26.0	19.8	17.6	14.5	14.3	13.8	14.3
62.5°	2451.7	1103.8	43.2	29.8	23.1	18.8	15.5	12.6	12.2	11.2	11.9
65°	2309.1	958.3	36.5	25.5	20.0	16.0	13.1	10.7	9.5	8.3	8.1
67.5°	2017.5	778.5	30.5	21.9	17.2	13.1	10.7	9.5	7.4	6.4	6.2
70°	1512.0	531.5	25.3	18.8	14.3	11.2	9.1	8.6	6.9	6.2	5.7
72.5°	887.0	286.8	21.2	16.5	12.2	9.3	7.4	7.9	6.9	5.7	5.2
75°	354.3	95.4	16.9	13.1	9.8	6.7	6.2	6.4	6.2	5.2	4.3
77.5°	80.8	30.0	13.1	10.3	7.6	4.3	5.0	5.5	5.5	4.3	3.1
80°	25.3	11.9	7.6	6.4	5.5	2.4	3.6	3.8	2.6	1.2	0.0
82.5°	8.1	3.3	2.6	2.6	2.4	0.5	0.7	0.5	0.0	0.0	0.0
85°	3.1	2.1	1.7	1.7	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.0	0.7	1.0	0.5	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)