

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: P367009

Luminaire Tested: **PMM-SA1D-727-U-T2-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P367009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA1D-727-U-T2-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4325 lumens  
Efficiency: N/A  
Efficacy: 64.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

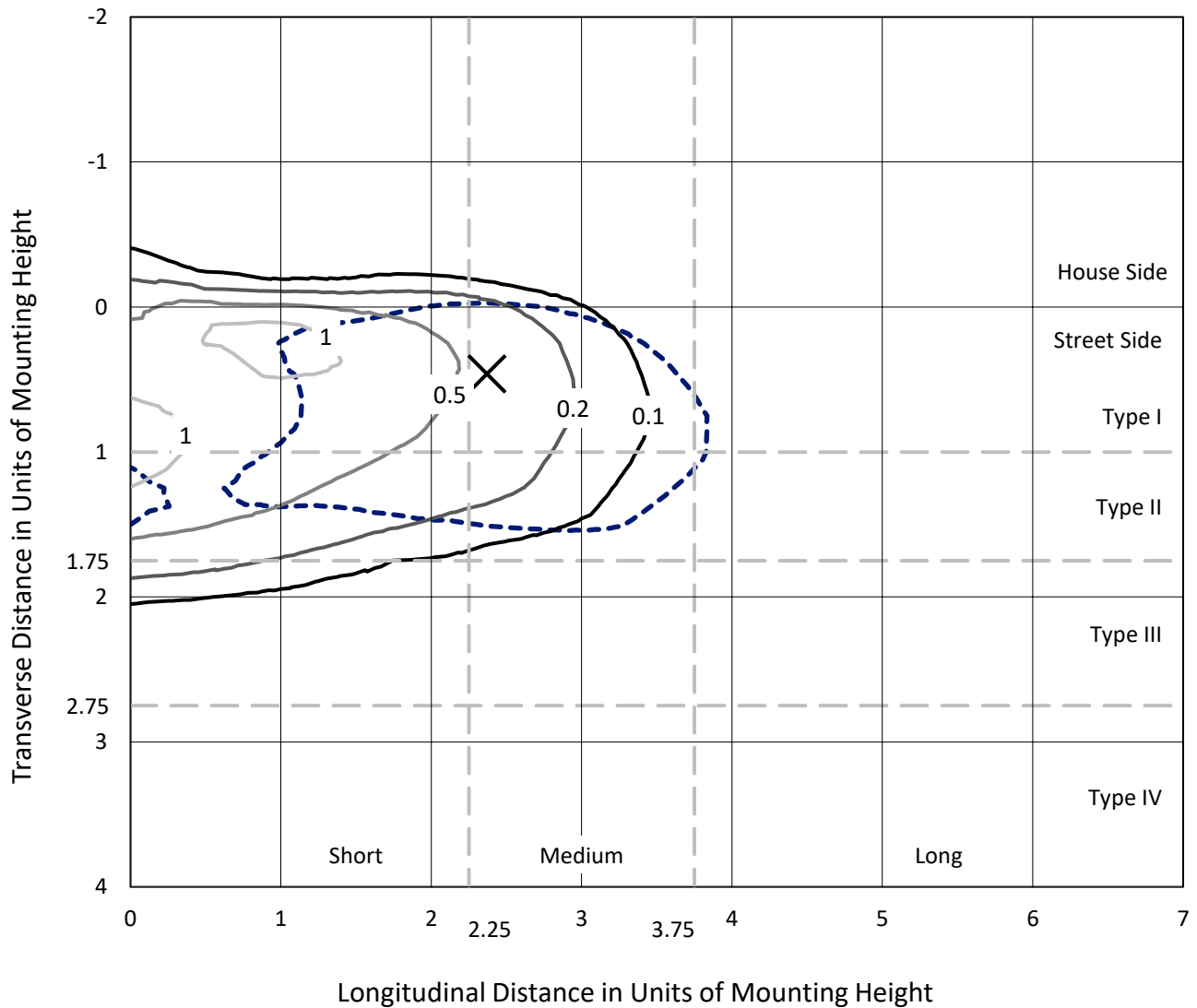
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

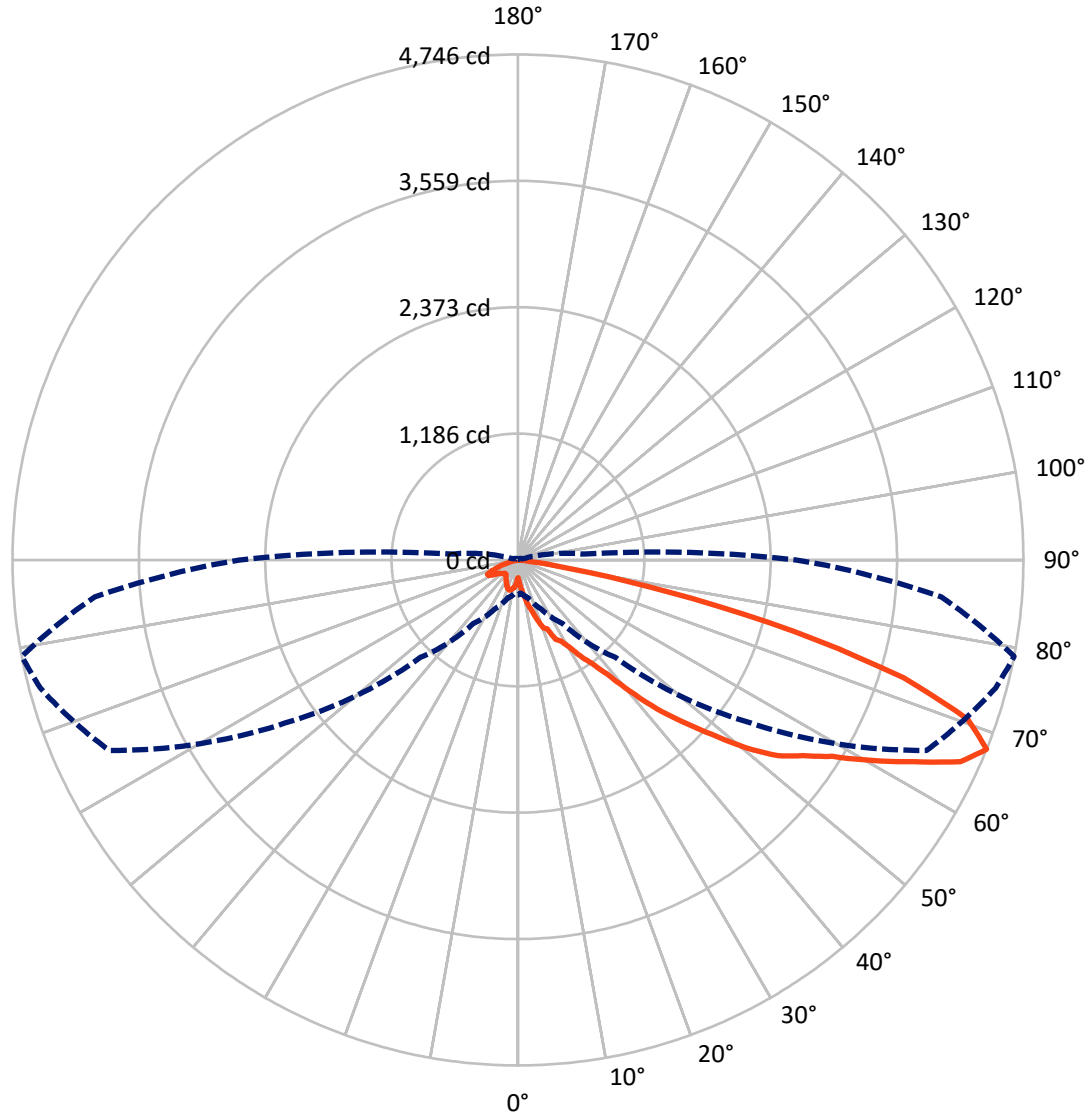
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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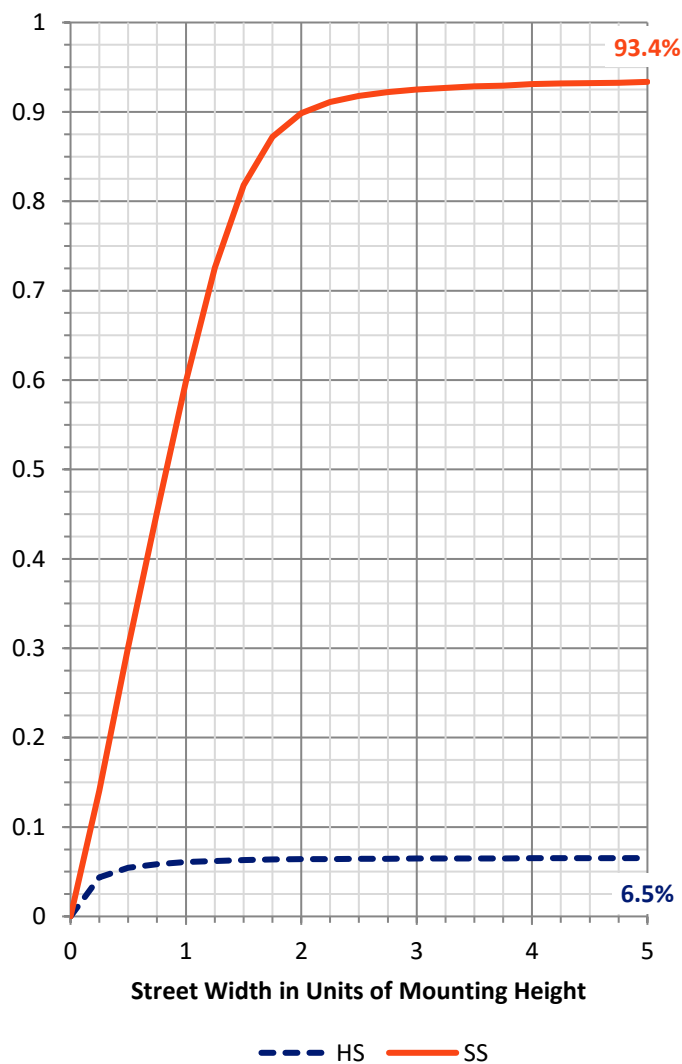
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	284.2	0.0	284.2
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	4040.8	0.0	4040.8
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	4325.0	0.0	4325.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.2	0.6
10°-20°	96.6	2.2
20°-30°	186.4	4.3
30°-40°	366.2	8.5
40°-50°	733.7	17.0
50°-60°	1172.7	27.1
60°-70°	1179.9	27.3
70°-80°	532.3	12.3
80°-90°	32.9	0.8
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°	4325.0	100.0
0°-180°	4325.0	100.0

**Coefficient of Utilization**

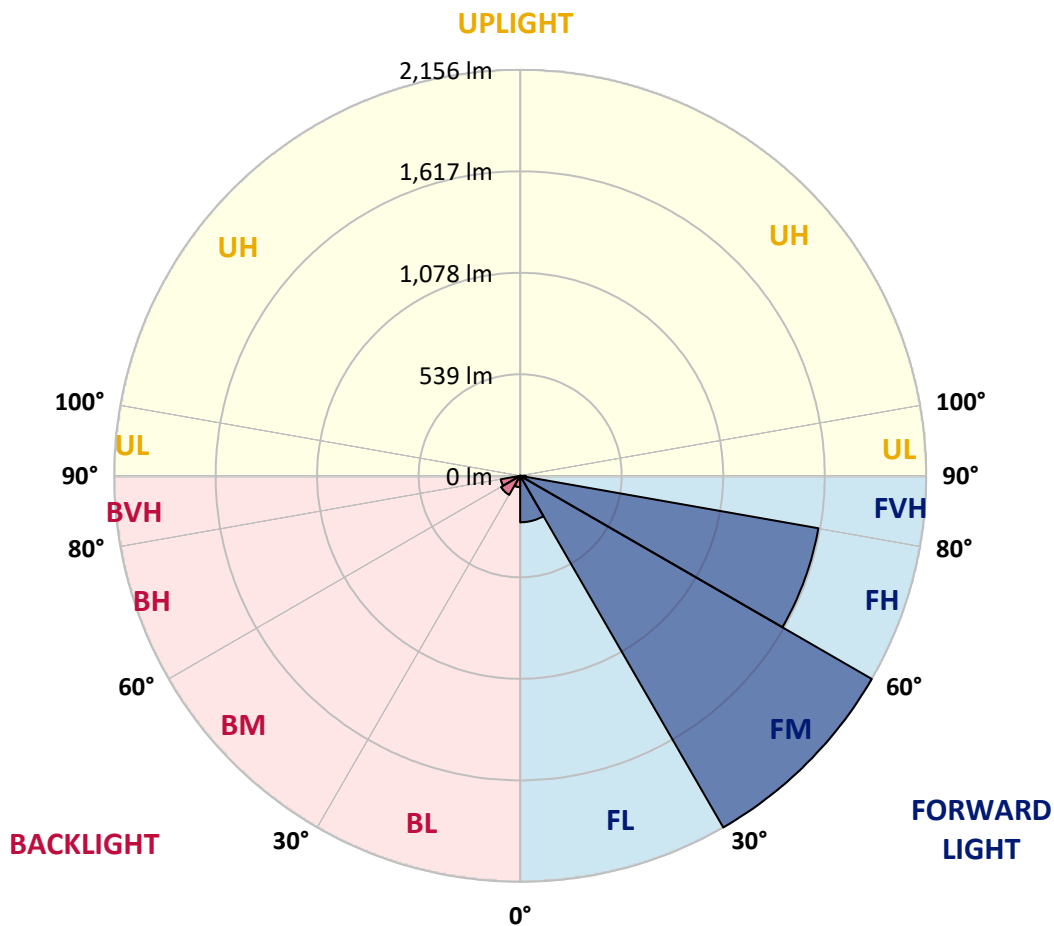


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.9	5.7			
FM (30°-60°)	2155.6	49.8			
FH (60°-80°)	1607.4	37.2			G1/1800
FVH (80°-90°)	30.8	0.7			G1/100
BL (0°-30°)	60.4	1.4	B0/110		
BM (30°-60°)	116.9	2.7	B0/220		
BH (60°-80°)	104.8	2.4	B0/110		G0/110
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7
2.5°	225.1	217.0	203.8	211.2	210.8	214.6	207.4	199.6	186.9	199.6	200.5
5°	324.0	309.0	299.5	297.5	287.1	277.3	275.1	267.0	260.8	249.6	259.6
7.5°	403.6	396.7	379.8	377.9	352.1	337.8	342.4	338.8	315.2	303.5	313.3
10°	437.5	425.6	428.0	425.6	414.6	418.7	409.4	398.6	379.8	360.5	336.2
12.5°	450.6	448.7	468.5	466.1	491.9	522.8	502.1	484.2	440.6	435.8	402.7
15°	478.7	490.7	487.8	497.8	514.3	567.0	566.5	570.8	524.5	499.7	451.8
17.5°	503.8	512.6	498.3	509.7	554.6	586.5	629.2	612.5	617.7	592.5	518.3
20°	493.0	503.1	488.8	481.8	560.8	621.3	678.3	666.1	697.6	681.9	579.6
22.5°	560.0	541.2	505.2	482.8	541.7	620.6	695.7	746.5	741.0	702.4	636.6
25°	642.8	631.3	588.2	548.6	553.8	616.3	750.5	825.2	841.4	824.9	690.7
27.5°	754.4	751.7	663.5	646.3	595.3	597.5	759.1	924.3	887.4	861.6	753.9
30°	900.0	879.3	774.6	752.2	676.9	639.9	811.6	1009.9	982.8	947.7	813.2
32.5°	1056.7	1059.8	926.3	852.3	791.8	747.9	790.8	1050.0	1100.8	1072.4	887.4
35°	1234.5	1248.4	1085.0	998.3	880.5	815.9	880.0	1173.0	1264.1	1189.5	986.8
37.5°	1508.5	1508.0	1317.3	1144.4	1058.8	988.7	1028.5	1284.8	1464.8	1359.9	1165.1
40°	1749.5	1697.1	1519.7	1321.1	1187.6	1168.5	1139.6	1437.9	1679.2	1616.0	1323.7
42.5°	1929.5	1892.6	1678.2	1523.7	1358.3	1297.7	1287.5	1662.2	1995.6	1907.1	1549.9
45°	2144.8	2023.7	1865.9	1726.6	1558.1	1540.4	1516.3	1889.9	2363.7	2164.3	1746.6
47.5°	2337.7	2223.7	2074.5	1895.7	1702.1	1847.5	1755.0	2090.0	2631.4	2444.3	1963.6
50°	2500.0	2378.9	2211.8	2075.7	1992.7	2091.4	1937.1	2254.7	2920.6	2769.0	2166.5
52.5°	2582.8	2445.7	2316.5	2232.3	2283.1	2260.9	2184.1	2454.3	3167.1	3053.6	2346.3
55°	2514.8	2380.8	2326.7	2368.4	2522.7	2458.6	2464.8	2763.5	3399.8	3243.4	2502.7
57.5°	2213.5	2091.2	2115.2	2229.4	2525.1	2692.9	2784.7	3063.9	3586.5	3479.9	2743.9
60°	1674.4	1575.9	1665.1	1867.8	2287.6	2646.2	3011.7	3364.3	3853.3	3819.9	3109.2
62.5°	1022.6	969.2	1095.5	1348.2	1822.9	2417.1	3144.0	3764.8	4138.7	4174.2	3496.6
65°	521.7	497.6	603.0	825.2	1231.7	1985.5	3048.4	4013.8	4433.6	4564.7	3865.9
67.5°	328.5	313.0	369.3	503.3	726.7	1295.1	2669.1	4231.4	4642.0	4745.7	3989.2
70°	227.7	217.9	266.6	345.5	458.5	697.6	1981.7	4028.3	4476.8	4481.5	3690.9
72.5°	144.5	136.9	184.3	255.8	338.3	360.2	1136.1	3160.9	3832.1	3788.0	2989.0
75°	93.7	89.9	117.1	187.4	259.9	222.2	561.5	2132.9	2747.8	2678.6	1985.3
77.5°	67.2	64.8	78.4	125.2	185.0	155.4	251.8	1271.2	1575.5	1424.3	963.7
80°	40.5	40.3	56.7	78.4	131.6	109.7	116.3	577.2	610.8	498.1	294.4
82.5°	20.3	21.0	31.7	50.5	84.6	71.8	53.2	192.2	164.0	120.9	59.6
85°	4.8	6.0	16.7	34.8	42.4	28.6	25.3	50.3	45.1	34.1	17.4
87.5°	0.0	0.0	5.2	8.3	11.4	4.8	8.6	9.5	12.2	9.5	3.6
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°	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7
2.5°	200.7	197.9	180.5	176.0	175.5	170.5	171.7	166.9	167.1	177.9	177.9
5°	255.8	239.1	222.4	207.7	197.6	183.3	178.1	176.0	174.0	178.3	181.0
7.5°	300.4	275.8	245.8	213.6	183.8	163.3	160.5	155.2	153.3	157.6	160.9
10°	320.2	289.7	248.4	201.5	173.6	156.9	143.1	135.7	134.2	134.0	135.2
12.5°	362.2	324.2	251.3	196.9	166.7	148.3	132.6	120.2	108.7	109.9	108.7
15°	395.8	350.9	251.3	186.0	150.0	131.6	103.9	97.8	96.1	98.7	96.6
17.5°	446.6	377.4	238.7	166.4	135.7	102.3	91.8	91.3	94.7	98.5	96.1
20°	477.1	381.0	217.4	144.0	111.3	88.7	84.9	81.1	85.8	88.9	87.7
22.5°	508.8	381.2	196.2	132.1	89.6	80.8	74.6	71.5	72.2	75.1	75.6
25°	522.4	371.9	176.4	116.3	81.3	72.2	65.8	62.5	61.3	62.7	62.2
27.5°	559.3	354.0	155.0	99.2	77.2	64.1	58.2	54.1	50.5	52.9	53.4
30°	564.6	348.3	143.3	88.2	72.0	56.7	51.5	47.2	44.6	47.9	47.9
32.5°	581.3	316.9	137.3	83.7	66.5	52.5	45.3	42.2	41.7	43.9	44.1
35°	607.0	303.0	128.5	80.1	61.5	47.4	40.8	39.3	38.9	40.5	40.5
37.5°	694.3	285.9	118.7	77.0	57.2	44.8	39.6	37.2	37.4	38.9	39.8
40°	752.2	288.0	104.2	73.2	52.2	42.4	37.2	35.5	35.3	36.0	36.7
42.5°	859.7	289.7	97.8	69.1	48.4	39.6	34.8	33.6	32.7	33.4	34.1
45°	979.9	298.5	94.4	65.8	46.3	37.9	32.7	31.9	29.8	30.3	31.2
47.5°	1095.8	330.7	90.4	61.0	44.3	37.0	30.5	28.8	27.4	27.2	28.1
50°	1227.4	361.9	85.8	55.8	42.4	35.5	28.4	25.7	24.8	24.8	25.5
52.5°	1345.1	391.7	81.5	52.2	41.0	32.9	26.5	23.8	23.1	23.1	24.1
55°	1469.1	423.0	77.7	48.9	39.1	30.3	24.8	22.4	22.2	21.7	22.4
57.5°	1688.0	491.1	73.0	46.0	36.5	28.1	23.4	21.0	20.5	19.8	20.5
60°	2006.8	595.8	66.8	43.2	33.4	26.7	22.2	19.3	18.6	17.4	17.6
62.5°	2318.4	680.4	59.6	39.6	30.5	25.3	20.3	17.4	16.2	14.8	15.0
65°	2585.4	713.8	52.0	35.3	27.7	21.9	17.6	15.3	13.6	11.7	11.4
67.5°	2616.9	630.4	44.6	31.2	24.8	18.6	15.0	13.6	11.0	9.3	8.8
70°	2355.1	469.7	37.2	27.7	21.5	15.7	12.9	11.9	10.3	8.8	8.1
72.5°	1875.4	346.7	31.2	24.6	18.8	13.4	11.0	11.2	10.3	8.6	7.6
75°	1240.2	198.4	25.5	20.5	15.7	10.7	10.0	10.0	9.8	8.1	7.2
77.5°	596.8	85.6	19.6	16.2	12.6	8.1	9.1	9.1	9.3	7.4	6.0
80°	169.3	25.7	12.2	11.0	9.3	5.5	7.2	6.9	6.2	4.3	2.6
82.5°	30.3	10.0	5.5	5.7	5.2	2.1	4.1	3.8	3.1	1.7	0.2
85°	8.3	3.8	3.1	3.3	2.6	0.7	1.7	2.1	1.7	1.0	0.0
87.5°	2.1	1.7	2.1	2.4	1.9	0.2	0.7	0.2	0.7	0.2	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)