

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: P366745

Luminaire Tested: **PMM-SA1B-727-U-T2-HSS**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P366745  
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-SA1B-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: 3194 lumens  
Efficiency: N/A  
Efficacy: 72.6 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

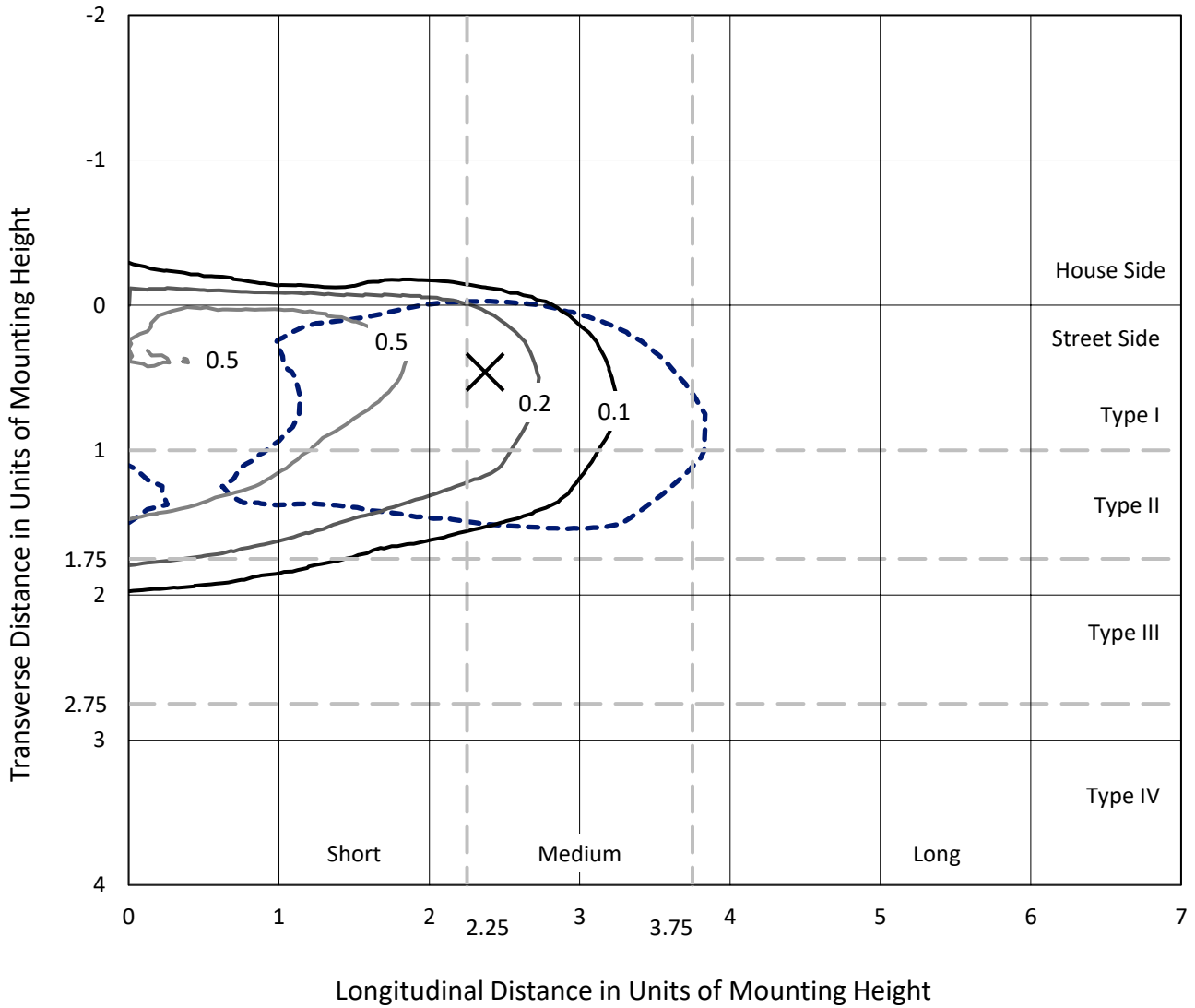
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

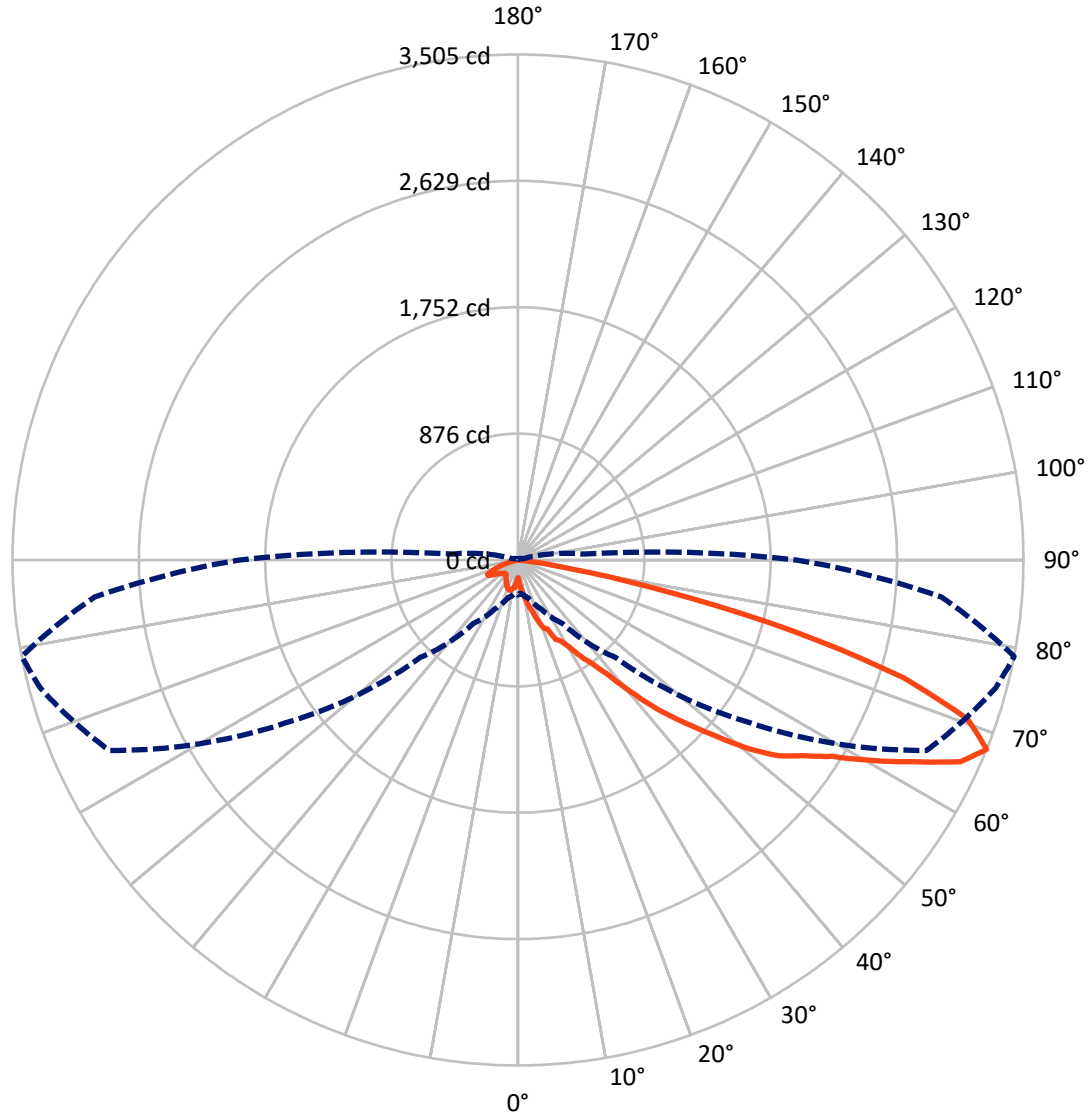
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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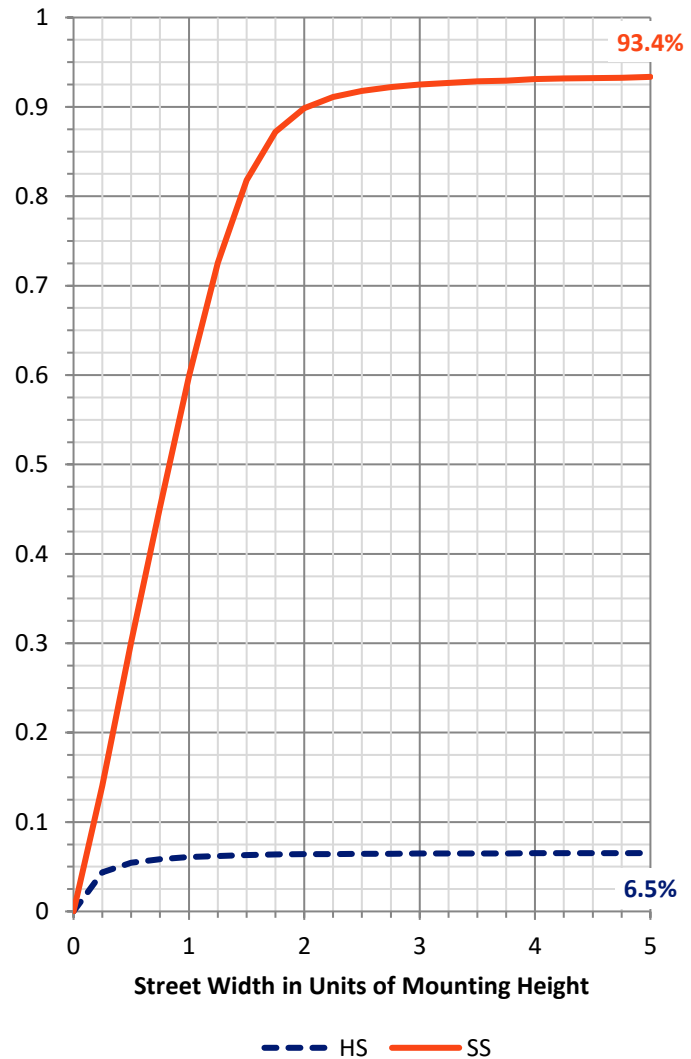
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	209.9	0.0	209.9
	% Fixture	6.6	0.0	6.6
<b>Street Side</b>	Lumens	2984.1	0.0	2984.1
	% Fixture	93.4	0.0	93.4
<b>Total</b>	Lumens	3194.0	0.0	3194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.9	0.6
10°-20°	71.4	2.2
20°-30°	137.7	4.3
30°-40°	270.5	8.5
40°-50°	541.8	17.0
50°-60°	866.0	27.1
60°-70°	871.3	27.3
70°-80°	393.1	12.3
80°-90°	24.3	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°	3194.0	100.0
0°-180°	3194.0	100.0

**Coefficient of Utilization**

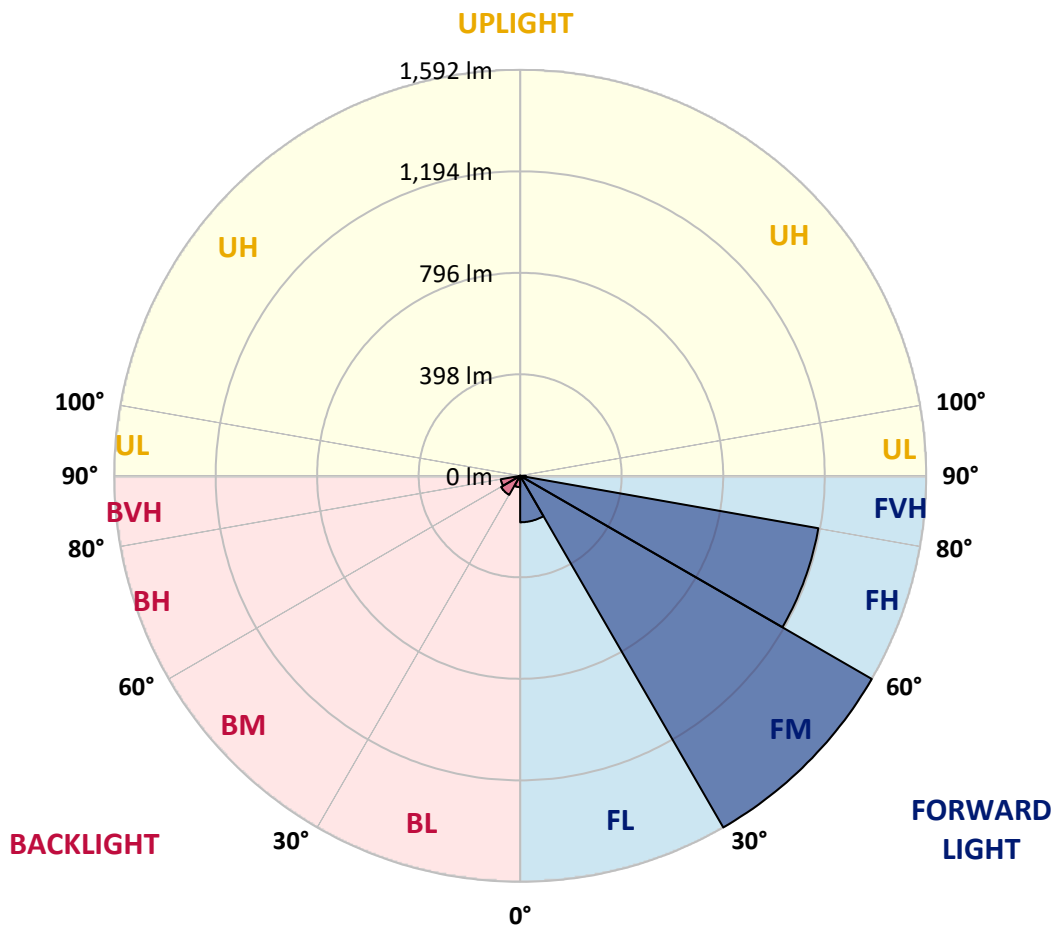


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	182.3	5.7			
FM (30°-60°)	1591.9	49.8			
FH (60°-80°)	1187.1	37.2			G1/1800
FVH (80°-90°)	22.8	0.7			G1/100
BL (0°-30°)	44.6	1.4	B0/110		
BM (30°-60°)	86.3	2.7	B0/220		
BH (60°-80°)	77.4	2.4	B0/110		G0/110
BVH (80°-90°)	1.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1
2.5°	166.2	160.2	150.5	156.0	155.6	158.5	153.2	147.4	138.0	147.4	148.1
5°	239.3	228.2	221.1	219.7	212.0	204.8	203.2	197.2	192.6	184.3	191.7
7.5°	298.1	293.0	280.5	279.1	260.1	249.5	252.8	250.2	232.8	224.1	231.4
10°	323.1	314.3	316.0	314.3	306.2	309.2	302.3	294.4	280.5	266.2	248.3
12.5°	332.8	331.4	346.0	344.2	363.2	386.1	370.8	357.6	325.4	321.9	297.4
15°	353.5	362.4	360.2	367.6	379.8	418.7	418.3	421.5	387.4	369.0	333.7
17.5°	372.0	378.6	368.0	376.4	409.5	433.1	464.6	452.3	456.2	437.5	382.8
20°	364.1	371.5	360.9	355.8	414.1	458.8	500.9	491.9	515.2	503.6	428.0
22.5°	413.6	399.7	373.1	356.5	400.0	458.3	513.8	551.3	547.2	518.7	470.1
25°	474.7	466.2	434.4	405.1	409.0	455.1	554.3	609.4	621.4	609.2	510.1
27.5°	557.1	555.1	490.0	477.3	439.6	441.2	560.6	682.6	655.3	636.3	556.7
30°	664.7	649.3	572.1	555.5	499.9	472.6	599.3	745.8	725.8	699.9	600.6
32.5°	780.3	782.6	684.0	629.5	584.7	552.3	584.0	775.4	812.9	792.0	655.3
35°	911.7	921.9	801.3	737.2	650.2	602.5	649.9	866.3	933.5	878.4	728.8
37.5°	1114.0	1113.6	972.8	845.1	781.9	730.2	759.6	948.8	1081.8	1004.3	860.5
40°	1292.0	1253.3	1122.3	975.6	877.0	862.9	841.6	1061.9	1240.1	1193.4	977.5
42.5°	1424.9	1397.6	1239.4	1125.3	1003.1	958.4	950.8	1227.6	1473.7	1408.4	1144.6
45°	1583.9	1494.5	1377.9	1275.1	1150.6	1137.6	1119.8	1395.7	1745.6	1598.4	1289.9
47.5°	1726.4	1642.2	1532.0	1399.9	1257.0	1364.4	1296.1	1543.4	1943.3	1805.1	1450.1
50°	1846.3	1756.8	1633.4	1532.9	1471.6	1544.5	1430.6	1665.1	2156.9	2044.9	1600.0
52.5°	1907.4	1806.1	1710.7	1648.5	1686.0	1669.7	1613.0	1812.5	2338.9	2255.1	1732.7
55°	1857.2	1758.2	1718.3	1749.1	1863.0	1815.6	1820.2	2040.8	2510.8	2395.3	1848.2
57.5°	1634.6	1544.3	1562.1	1646.4	1864.8	1988.7	2056.5	2262.7	2648.6	2569.9	2026.4
60°	1236.5	1163.8	1229.7	1379.3	1689.4	1954.2	2224.1	2484.5	2845.6	2821.0	2296.1
62.5°	755.2	715.7	809.0	995.7	1346.2	1785.0	2321.8	2780.3	3056.4	3082.6	2582.2
65°	385.2	367.5	445.3	609.4	909.6	1466.3	2251.2	2964.1	3274.2	3371.0	2855.0
67.5°	242.6	231.2	272.7	371.7	536.7	956.4	1971.1	3124.9	3428.1	3504.7	2946.0
70°	168.1	160.9	196.8	255.1	338.6	515.2	1463.5	2974.9	3306.1	3309.6	2725.7
72.5°	106.7	101.1	136.1	188.9	249.8	266.0	839.0	2334.3	2830.0	2797.4	2207.4
75°	69.2	66.4	86.5	138.4	191.9	164.1	414.6	1575.1	2029.2	1978.1	1466.1
77.5°	49.7	47.9	57.9	92.4	136.6	114.8	185.9	938.8	1163.5	1051.8	711.7
80°	29.9	29.8	41.9	57.9	97.2	81.0	85.9	426.3	451.1	367.8	217.4
82.5°	15.0	15.5	23.4	37.3	62.5	53.0	39.3	141.9	121.1	89.3	44.0
85°	3.5	4.4	12.3	25.7	31.3	21.1	18.7	37.2	33.3	25.2	12.9
87.5°	0.0	0.0	3.9	6.2	8.5	3.5	6.3	7.0	9.0	7.0	2.6
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°	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1	123.1
2.5°	148.3	146.1	133.3	129.9	129.6	125.9	126.8	123.2	123.4	131.3	131.3
5°	188.9	176.6	164.3	153.4	146.0	135.4	131.5	129.9	128.5	131.7	133.6
7.5°	221.8	203.7	181.5	157.8	135.8	120.6	118.5	114.6	113.2	116.4	118.8
10°	236.5	213.9	183.5	148.8	128.2	115.9	105.6	100.2	99.1	99.0	99.8
12.5°	267.5	239.5	185.6	145.4	123.1	109.5	97.9	88.7	80.3	81.2	80.3
15°	292.3	259.2	185.6	137.3	110.7	97.2	76.8	72.2	71.0	72.9	71.3
17.5°	329.8	278.7	176.2	122.9	100.2	75.5	67.8	67.4	69.9	72.7	71.0
20°	352.3	281.4	160.6	106.3	82.2	65.5	62.7	59.9	63.4	65.7	64.8
22.5°	375.7	281.5	144.9	97.5	66.2	59.7	55.1	52.8	53.3	55.5	55.8
25°	385.8	274.7	130.3	85.9	60.0	53.3	48.6	46.1	45.3	46.3	46.0
27.5°	413.1	261.5	114.4	73.2	57.0	47.4	43.0	40.0	37.3	39.1	39.4
30°	416.9	257.2	105.8	65.1	53.2	41.9	38.0	34.9	32.9	35.4	35.4
32.5°	429.3	234.0	101.4	61.8	49.1	38.7	33.5	31.2	30.8	32.4	32.6
35°	448.3	223.8	94.9	59.2	45.4	35.0	30.1	29.1	28.7	29.9	29.9
37.5°	512.7	211.1	87.7	56.9	42.3	33.1	29.2	27.5	27.6	28.7	29.4
40°	555.5	212.7	76.9	54.1	38.6	31.3	27.5	26.2	26.1	26.6	27.1
42.5°	634.9	213.9	72.2	51.1	35.7	29.2	25.7	24.8	24.1	24.6	25.2
45°	723.6	220.4	69.7	48.6	34.2	28.0	24.1	23.6	22.0	22.4	23.1
47.5°	809.2	244.2	66.7	45.1	32.7	27.3	22.5	21.3	20.2	20.1	20.8
50°	906.4	267.3	63.4	41.2	31.3	26.2	21.0	19.0	18.3	18.3	18.8
52.5°	993.4	289.3	60.2	38.6	30.3	24.3	19.5	17.6	17.1	17.1	17.8
55°	1084.9	312.3	57.4	36.1	28.9	22.4	18.3	16.6	16.4	16.0	16.6
57.5°	1246.6	362.7	53.9	34.0	26.9	20.8	17.3	15.5	15.1	14.6	15.1
60°	1482.0	440.0	49.3	31.9	24.6	19.7	16.4	14.3	13.7	12.9	13.0
62.5°	1712.1	502.5	44.0	29.2	22.5	18.7	15.0	12.9	12.0	10.9	11.1
65°	1909.3	527.2	38.4	26.1	20.4	16.2	13.0	11.3	10.0	8.6	8.5
67.5°	1932.5	465.5	32.9	23.1	18.3	13.7	11.1	10.0	8.1	6.9	6.5
70°	1739.2	346.9	27.5	20.4	15.8	11.6	9.5	8.8	7.6	6.5	6.0
72.5°	1385.0	256.0	23.1	18.1	13.9	9.9	8.1	8.3	7.6	6.3	5.6
75°	915.9	146.5	18.8	15.1	11.6	7.9	7.4	7.4	7.2	6.0	5.3
77.5°	440.7	63.2	14.4	12.0	9.3	6.0	6.7	6.7	6.9	5.5	4.4
80°	125.0	19.0	9.0	8.1	6.9	4.0	5.3	5.1	4.6	3.2	1.9
82.5°	22.4	7.4	4.0	4.2	3.9	1.6	3.0	2.8	2.3	1.2	0.2
85°	6.2	2.8	2.3	2.5	1.9	0.5	1.2	1.6	1.2	0.7	0.0
87.5°	1.6	1.2	1.6	1.8	1.4	0.2	0.5	0.2	0.5	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)