

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: P366604

Luminaire Tested: **PMM-SA1A-727-U-SL2**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-16)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1A-727-U-SL2
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

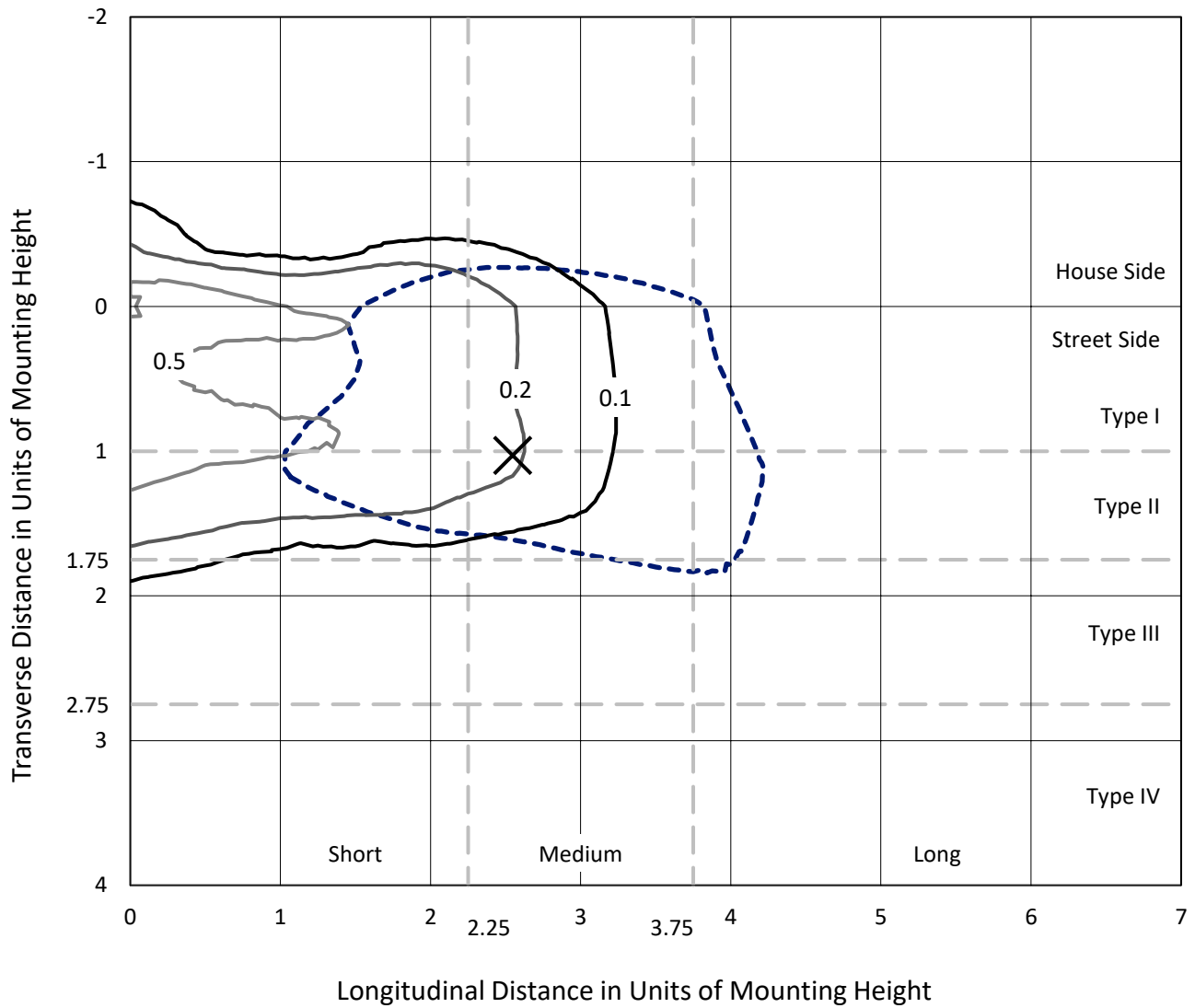
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

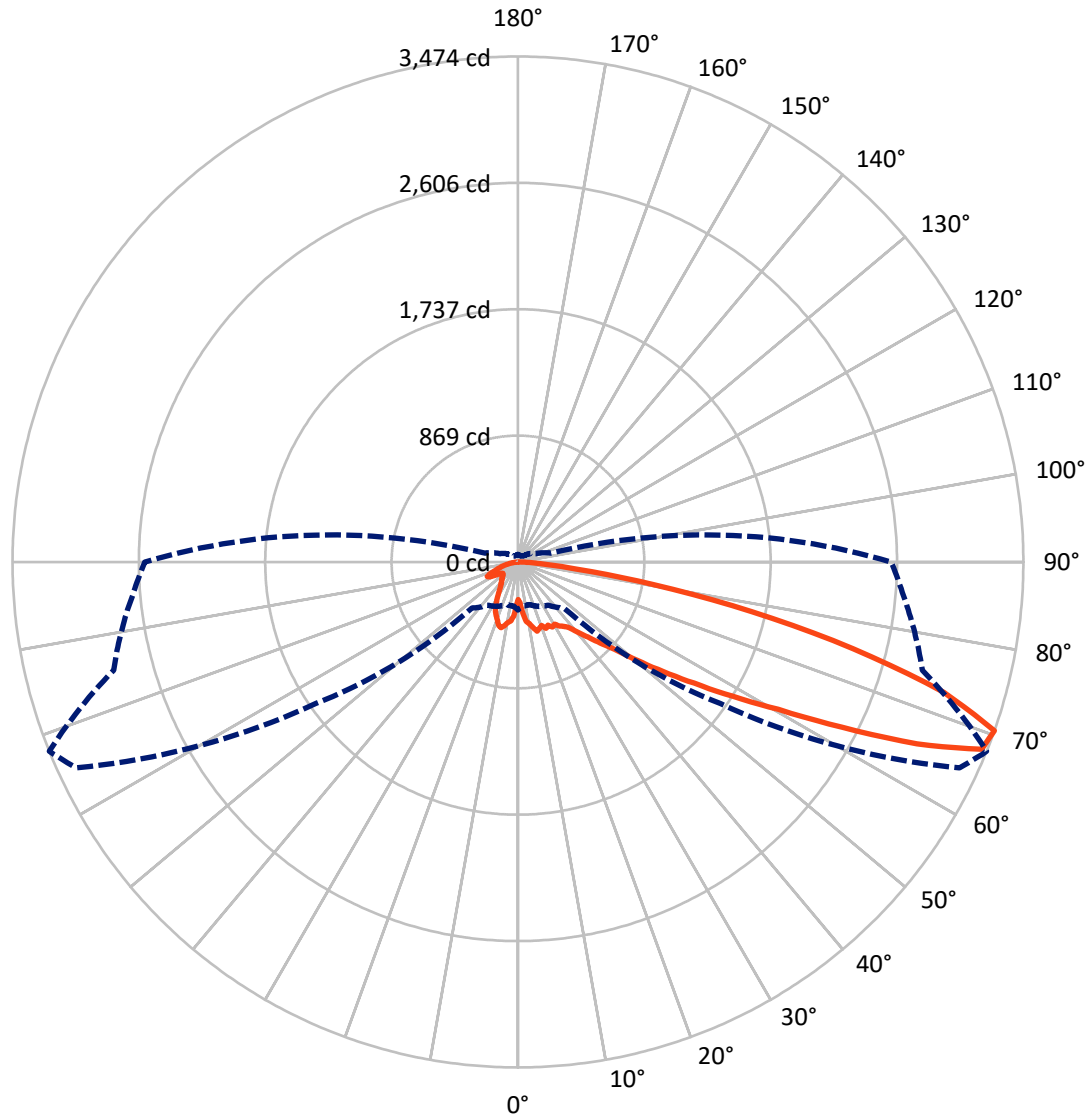
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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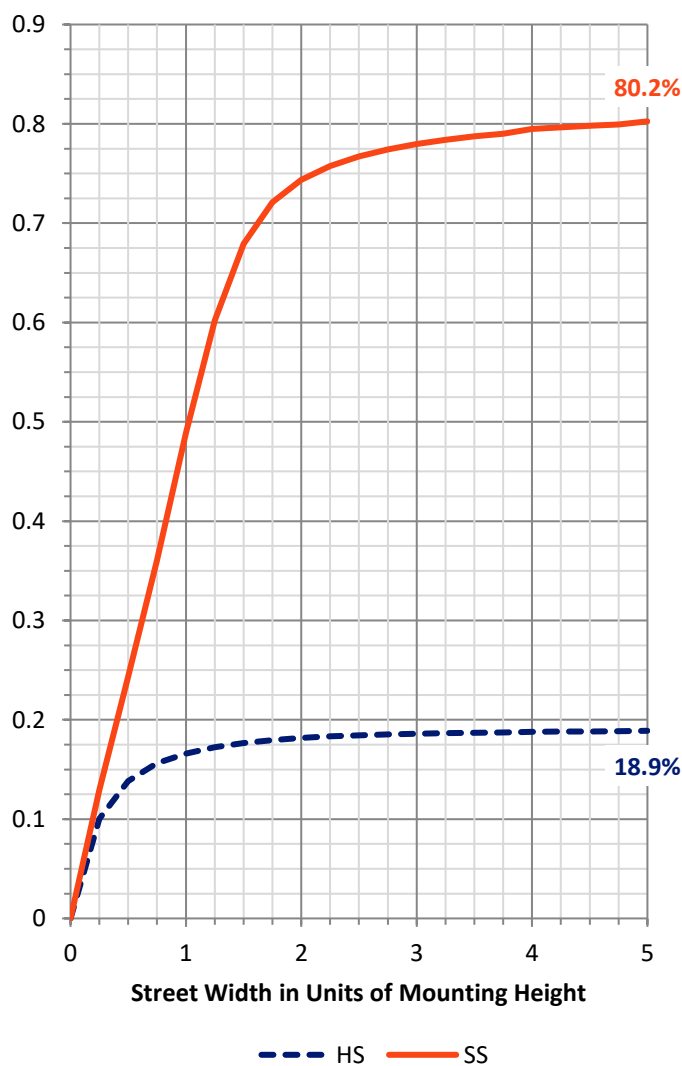
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	640.9	0.0	640.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	2716.1	0.0	2716.1
	% Fixture	80.9	0.0	80.9
Total	Lumens	3357.0	0.0	3357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	1.0
10°-20°	112.0	3.3
20°-30°	170.4	5.1
30°-40°	260.3	7.8
40°-50°	447.6	13.3
50°-60°	740.9	22.1
60°-70°	913.5	27.2
70°-80°	586.8	17.5
80°-90°	91.0	2.7
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°	3357.0	100.0
0°-180°	3357.0	100.0

Coefficient of Utilization



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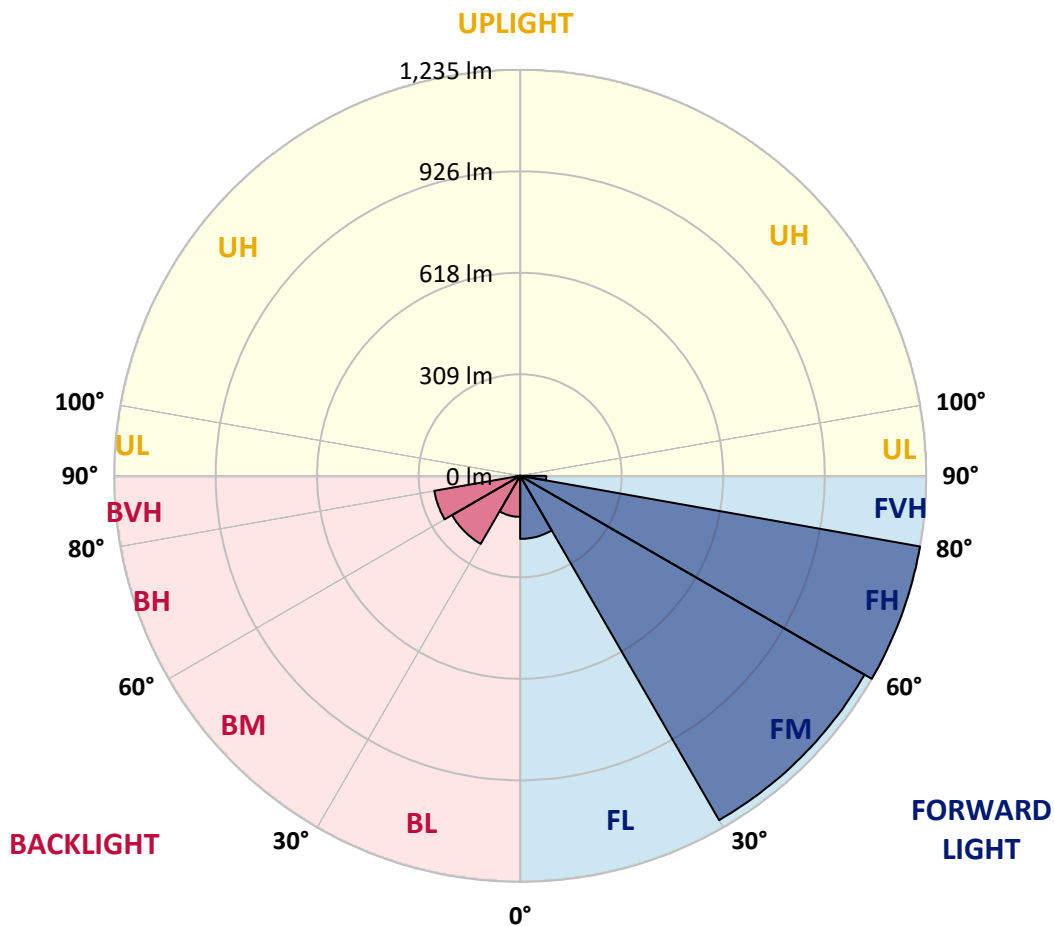
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	192.0	5.7			
FM (30°-60°)	1209.7	36.0			
FH (60°-80°)	1235.1	36.8			G1/1800
FVH (80°-90°)	79.3	2.4			G1/100
BL (0°-30°)	124.9	3.7	B1/500		
BM (30°-60°)	239.2	7.1	B1/1000		
BH (60°-80°)	265.1	7.9	B1/500		G1/500
BVH (80°-90°)	11.7	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4
2.5°	295.7	283.8	271.7	277.6	287.0	295.3	293.6	294.6	283.2	281.7	311.6
5°	348.4	327.9	327.5	327.8	328.6	319.1	342.4	354.5	357.1	369.5	398.9
7.5°	366.7	358.4	350.0	354.2	343.5	344.5	373.2	404.6	412.1	421.1	461.3
10°	362.9	355.0	357.6	358.3	360.2	376.1	394.5	424.7	431.0	459.7	470.1
12.5°	363.5	362.1	373.9	374.3	395.4	423.9	431.2	459.0	461.5	482.6	526.0
15°	382.7	392.4	385.8	389.3	393.4	427.5	438.1	478.0	493.1	520.3	552.9
17.5°	420.2	423.0	403.2	398.0	411.4	421.8	445.8	463.1	479.0	554.7	599.6
20°	428.9	436.5	412.9	386.1	414.3	428.8	445.5	453.4	465.8	559.7	623.5
22.5°	466.3	450.6	422.1	398.7	408.0	422.1	434.1	463.8	496.2	545.3	647.4
25°	487.5	478.4	453.0	428.0	420.1	420.5	443.8	470.4	481.6	566.5	652.2
27.5°	538.8	524.2	467.0	462.2	432.6	409.6	445.4	486.7	506.4	549.9	675.5
30°	603.0	591.9	516.9	510.6	465.3	425.1	465.0	498.8	496.0	560.7	691.7
32.5°	655.0	673.5	597.8	547.9	515.8	477.3	458.9	496.7	524.6	585.9	719.1
35°	729.2	746.6	660.9	627.2	557.4	501.4	502.0	525.6	542.9	615.2	749.7
37.5°	857.6	842.3	773.3	720.1	675.4	591.9	566.9	558.6	572.5	651.2	809.7
40°	950.2	937.3	856.1	825.7	738.7	690.3	621.7	613.8	638.4	688.3	858.7
42.5°	1059.9	1036.9	961.3	936.3	845.4	758.0	688.9	693.4	705.3	758.3	925.0
45°	1171.6	1115.7	1072.8	1070.9	1010.2	889.5	796.6	793.0	793.4	861.3	999.5
47.5°	1260.3	1210.0	1160.9	1137.6	1107.0	1117.0	953.1	910.3	897.4	964.9	1111.2
50°	1320.3	1262.4	1206.9	1201.4	1283.2	1337.0	1100.1	1054.3	1062.3	1113.3	1260.1
52.5°	1321.5	1252.8	1194.9	1233.3	1425.9	1502.9	1353.3	1225.3	1250.9	1285.6	1454.4
55°	1229.6	1158.4	1120.8	1208.1	1481.7	1699.7	1709.0	1499.3	1469.8	1482.5	1686.7
57.5°	1035.9	964.0	942.0	1046.7	1375.9	1889.6	2138.7	1826.6	1740.1	1686.7	1924.7
60°	779.8	717.5	703.9	770.6	1140.7	1833.8	2486.5	2234.1	2057.7	1914.7	2163.4
62.5°	584.8	540.1	519.6	529.1	789.3	1652.4	2715.0	2748.9	2499.2	2163.7	2396.6
65°	475.2	439.1	420.8	408.4	490.9	1277.7	2673.7	3182.1	3014.8	2425.1	2578.1
67.5°	396.9	364.9	356.4	368.5	388.1	741.3	2350.5	3424.5	3435.9	2683.1	2684.2
70°	329.5	305.7	302.6	336.9	362.6	447.3	1697.8	3348.4	3474.0	2876.6	2659.4
72.5°	254.6	241.8	241.4	295.2	360.2	381.3	1011.0	2892.6	3061.3	2814.7	2416.0
75°	176.6	167.8	174.5	242.6	351.9	386.8	577.0	2253.0	2379.3	2395.2	1935.4
77.5°	121.5	114.1	121.4	175.5	314.3	396.1	403.7	1629.1	1643.1	1606.2	1108.5
80°	84.6	79.4	85.0	124.2	244.6	392.0	343.7	1025.6	941.1	716.8	354.9
82.5°	52.4	50.9	57.0	88.5	172.3	356.6	325.7	529.3	404.1	197.8	126.7
85°	27.5	25.3	33.2	57.7	107.8	279.9	305.2	241.5	156.0	70.2	50.9
87.5°	8.1	7.3	12.8	23.3	45.7	125.5	174.6	102.4	58.2	20.7	15.9
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°	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4	257.4
2.5°	313.7	312.2	291.4	294.1	298.6	299.7	299.5	292.0	283.9	306.3	305.6
5°	399.6	385.7	375.3	373.0	360.2	347.5	351.9	350.4	348.4	358.6	359.8
7.5°	461.4	442.1	430.1	399.0	369.5	343.9	352.1	354.6	349.6	367.8	373.3
10°	477.7	462.5	449.5	409.6	393.3	378.4	356.3	331.2	327.8	317.2	318.5
12.5°	519.7	517.6	473.1	437.9	416.7	387.1	339.4	309.0	282.8	284.1	276.5
15°	552.9	554.0	500.5	451.3	394.4	349.1	293.1	255.1	228.3	223.0	217.5
17.5°	597.4	595.2	502.7	435.3	363.2	296.9	228.2	190.5	186.0	189.1	184.3
20°	616.8	597.0	488.4	395.5	314.4	225.5	172.4	152.4	161.2	173.5	173.8
22.5°	634.2	600.3	480.9	363.5	249.5	164.0	138.4	134.7	145.0	161.7	163.1
25°	633.5	615.9	467.6	331.2	193.5	128.0	120.3	122.9	135.2	152.6	153.6
27.5°	665.4	604.0	432.9	288.7	145.7	109.6	111.6	116.5	122.2	138.8	142.0
30°	665.1	626.2	415.5	237.2	117.0	100.5	105.5	109.7	114.5	129.7	131.5
32.5°	680.9	611.7	404.9	184.5	105.0	98.2	99.5	103.7	110.6	120.8	122.1
35°	699.8	628.2	371.2	146.5	100.5	96.2	97.2	99.6	105.9	115.3	116.6
37.5°	760.7	631.3	357.8	123.5	100.2	95.4	95.3	96.5	103.7	112.3	116.1
40°	784.4	659.5	318.9	115.3	99.2	95.4	93.4	94.1	100.0	111.0	113.9
42.5°	841.3	668.9	290.1	112.5	99.2	93.7	90.6	91.7	98.6	108.3	113.0
45°	899.9	682.3	255.8	112.0	99.1	93.6	87.7	90.2	95.8	104.0	109.0
47.5°	983.3	730.3	221.6	110.3	97.9	94.3	87.0	86.8	91.7	98.8	103.5
50°	1119.5	805.3	195.0	108.2	98.1	93.7	85.6	83.6	86.8	93.0	97.6
52.5°	1309.0	933.2	184.6	107.1	96.9	91.5	83.2	80.1	81.9	86.8	91.3
55°	1529.0	1105.9	194.9	107.1	94.7	88.0	79.8	76.2	77.1	80.5	84.9
57.5°	1786.2	1320.4	244.5	105.5	91.9	83.7	75.7	71.5	71.8	74.7	78.7
60°	2054.6	1560.1	355.6	104.2	89.9	79.1	71.0	66.6	66.2	69.0	72.5
62.5°	2323.6	1781.2	472.5	107.2	89.4	75.2	65.9	61.5	61.4	63.9	66.9
65°	2537.4	1932.4	501.6	119.1	93.0	70.7	60.7	56.6	56.3	58.4	61.7
67.5°	2642.4	1954.3	381.0	134.0	100.7	66.5	55.6	51.8	51.6	53.8	56.6
70°	2564.7	1804.6	235.2	135.6	100.3	61.5	50.4	47.2	46.6	49.0	51.1
72.5°	2277.2	1578.5	178.7	120.0	86.8	54.5	45.2	42.4	41.6	43.7	45.7
75°	1827.7	1253.2	143.2	96.8	68.4	45.9	40.0	37.4	36.4	38.4	40.0
77.5°	1064.7	705.0	104.7	75.6	51.7	37.5	34.1	31.8	30.6	32.7	34.0
80°	346.2	234.9	65.8	54.2	37.8	29.4	27.7	26.0	24.9	26.3	26.7
82.5°	124.3	87.4	36.4	33.3	25.1	21.1	20.9	20.0	18.5	19.1	19.1
85°	55.1	39.9	21.6	17.8	15.0	11.2	13.2	12.5	11.1	10.8	10.4
87.5°	15.5	13.2	7.9	6.0	4.9	1.8	4.2	3.8	3.1	2.8	2.0
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)