

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: P573222

Luminaire Tested: **ARCH-S-PA2-50-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-50-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5015 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

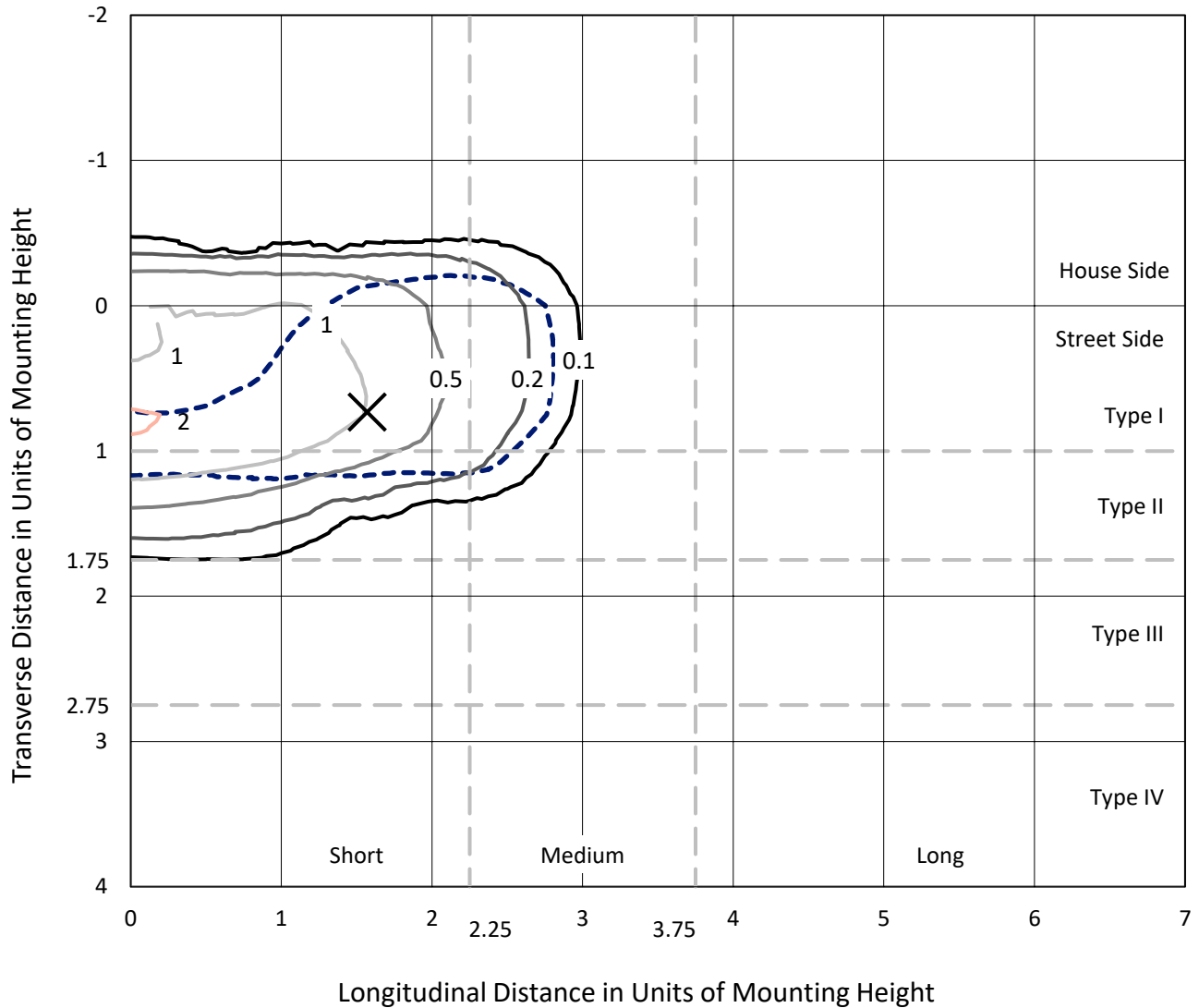
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

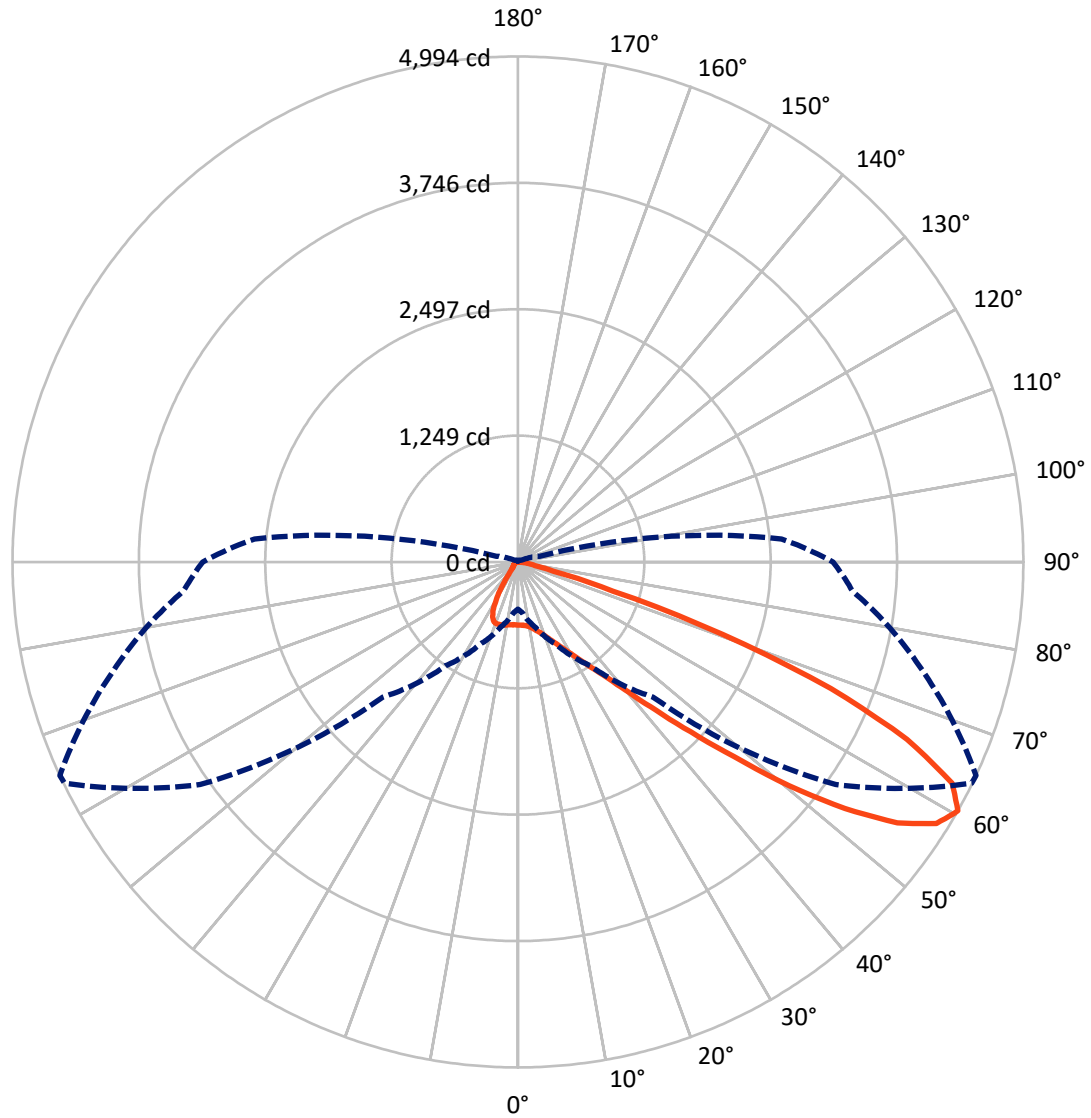
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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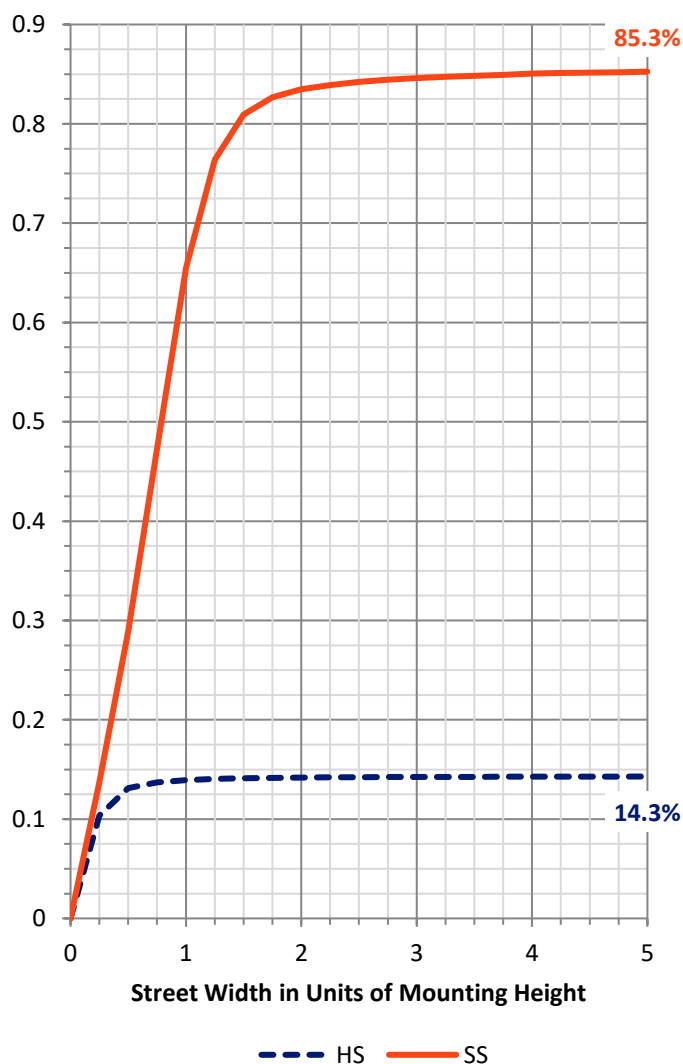
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.0	0.0	726.0
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	4289.0	0.0	4289.0
	% Fixture	85.5	0.0	85.5
Total	Lumens	5015.0	0.0	5015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.2
10°-20°	167.5	3.3
20°-30°	284.6	5.7
30°-40°	587.2	11.7
40°-50°	1180.9	23.5
50°-60°	1445.0	28.8
60°-70°	1022.3	20.4
70°-80°	246.4	4.9
80°-90°	22.3	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°	5015.0	100.0
0°-180°	5015.0	100.0

Coefficient of Utilization



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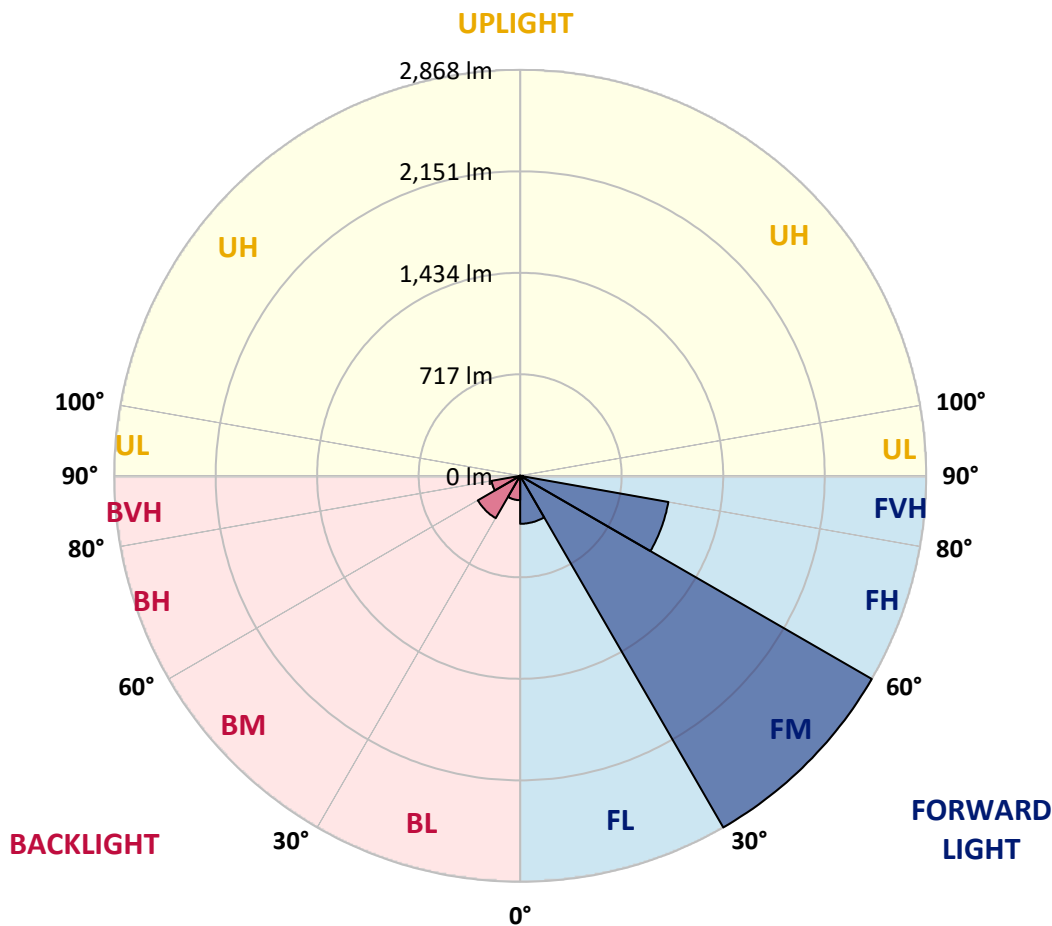
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	339.0	6.8			
FM (30°-60°)	2867.8	57.2			
FH (60°-80°)	1062.8	21.2			G1/1800
FVH (80°-90°)	19.4	0.4			G1/100
BL (0°-30°)	172.1	3.4	B1/500		
BM (30°-60°)	345.2	6.9	B1/1000		
BH (60°-80°)	205.8	4.1	B1/500		G1/500
BVH (80°-90°)	2.9	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7
2.5°	626.7	624.7	624.7	624.7	626.7	626.7	628.7	624.7	624.7	624.7	624.7
5°	622.8	620.8	620.8	622.8	624.7	624.7	628.7	628.7	628.7	630.7	630.7
7.5°	630.7	626.7	626.7	628.7	630.7	630.7	634.6	636.6	636.6	640.6	642.5
10°	640.6	638.6	638.6	642.5	646.5	646.5	652.4	652.4	652.4	656.4	658.4
12.5°	654.4	652.4	652.4	658.4	664.3	668.2	672.2	674.2	676.1	676.1	676.1
15°	674.2	672.2	672.2	678.1	686.0	695.9	701.8	701.8	705.8	703.8	695.9
17.5°	701.8	699.9	701.8	705.8	715.7	725.6	737.4	739.4	737.4	733.5	721.6
20°	747.3	741.4	745.3	755.2	755.2	761.2	777.0	782.9	784.9	773.0	751.3
22.5°	794.8	794.8	798.7	810.6	802.7	810.6	824.4	834.3	838.3	828.4	792.8
25°	883.7	887.7	881.8	877.8	858.0	862.0	879.8	899.6	899.6	891.6	840.2
27.5°	1079.5	1075.5	1034.0	976.7	925.3	929.2	947.0	972.7	974.7	956.9	887.7
30°	1360.2	1364.2	1283.1	1152.6	1039.9	1010.3	1030.0	1059.7	1063.6	1034.0	949.0
32.5°	1799.1	1765.5	1615.2	1441.3	1229.7	1123.0	1130.9	1162.5	1174.4	1148.7	1045.9
35°	2366.5	2287.4	2062.0	1846.6	1540.1	1324.6	1263.3	1296.9	1302.9	1289.0	1166.5
37.5°	2704.6	2641.3	2495.0	2299.3	1939.5	1593.5	1437.3	1470.9	1465.0	1437.3	1287.1
40°	2914.2	2878.6	2799.5	2708.5	2479.2	2016.6	1724.0	1696.3	1698.3	1658.7	1482.8
42.5°	3032.8	3001.1	2971.5	2995.2	2928.0	2783.7	2139.2	2012.6	2000.8	1925.6	1710.1
45°	3038.7	2991.3	3026.8	3165.2	3272.0	3463.8	2680.9	2388.3	2394.2	2269.6	1992.9
47.5°	2811.3	2773.8	2876.6	3147.4	3501.3	3908.6	3311.5	2902.3	2874.6	2629.5	2279.5
50°	2362.6	2360.6	2497.0	2880.5	3501.3	4137.9	3987.7	3505.3	3475.6	3005.1	2540.5
52.5°	1870.3	1907.8	2000.8	2364.5	3179.1	4116.2	4485.9	4128.1	4045.0	3339.2	2758.0
55°	1455.1	1441.3	1554.0	1805.0	2520.7	3740.6	4648.0	4618.4	4549.2	3635.8	2949.7
57.5°	893.6	945.0	1097.3	1320.7	1834.7	2941.8	4414.7	4916.9	4875.4	3912.6	3149.4
60°	464.6	504.1	668.2	901.5	1253.4	1886.1	3831.5	4986.1	4994.0	4136.0	3319.4
62.5°	292.6	290.6	365.8	632.7	806.6	1059.7	2975.4	4740.9	4816.1	4308.0	3481.6
65°	219.5	221.4	251.1	419.1	547.6	553.6	1765.5	4100.4	4224.9	4353.4	3536.9
67.5°	203.6	205.6	219.5	274.8	411.2	369.7	777.0	3161.3	3335.3	3934.3	3323.4
70°	181.9	183.9	205.6	227.4	310.4	270.9	349.9	1903.9	2145.1	2854.8	2659.1
72.5°	142.3	146.3	172.0	215.5	231.3	205.6	243.2	842.2	982.6	1569.8	1522.3
75°	104.8	106.8	130.5	166.1	203.6	146.3	187.8	334.1	365.8	589.2	502.2
77.5°	73.2	73.2	90.9	124.6	170.0	102.8	134.4	179.9	183.9	219.5	144.3
80°	45.5	47.4	57.3	85.0	104.8	98.9	83.0	120.6	120.6	114.7	59.3
82.5°	25.7	27.7	39.5	57.3	71.2	67.2	53.4	69.2	71.2	73.2	33.6
85°	11.9	13.8	23.7	35.6	41.5	31.6	31.6	35.6	35.6	47.4	19.8
87.5°	2.0	2.0	11.9	15.8	13.8	15.8	15.8	19.8	19.8	23.7	9.9
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°	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7	624.7
2.5°	622.8	622.8	622.8	620.8	620.8	618.8	614.9	614.9	614.9	614.9	616.8
5°	630.7	628.7	626.7	620.8	616.8	608.9	601.0	599.0	593.1	593.1	595.1
7.5°	640.6	640.6	634.6	624.7	614.9	601.0	587.2	577.3	567.4	565.4	563.5
10°	658.4	654.4	648.5	630.7	614.9	593.1	571.4	545.7	525.9	516.0	512.1
12.5°	672.2	670.2	658.4	638.6	612.9	579.3	529.8	470.5	423.1	397.4	397.4
15°	692.0	688.0	670.2	642.5	607.0	527.9	427.0	336.1	284.7	257.0	253.1
17.5°	711.7	703.8	682.1	644.5	581.2	434.9	298.5	215.5	179.9	166.1	162.1
20°	735.5	721.6	690.0	646.5	518.0	316.3	193.7	144.3	130.5	124.6	126.5
22.5°	767.1	743.4	697.9	634.6	423.1	205.6	136.4	116.6	108.7	102.8	102.8
25°	806.6	773.0	711.7	601.0	306.4	138.4	108.7	96.9	89.0	85.0	83.0
27.5°	842.2	800.7	725.6	541.7	195.7	108.7	90.9	81.1	73.2	71.2	69.2
30°	889.7	832.3	739.4	446.8	128.5	89.0	77.1	67.2	61.3	59.3	59.3
32.5°	970.7	893.6	765.1	340.1	96.9	77.1	65.2	57.3	53.4	51.4	51.4
35°	1065.6	968.7	786.9	237.2	83.0	65.2	55.4	49.4	47.4	45.5	45.5
37.5°	1164.5	1057.7	790.8	150.3	73.2	57.3	49.4	45.5	41.5	41.5	41.5
40°	1342.4	1213.9	773.0	100.8	63.3	51.4	43.5	41.5	37.6	37.6	37.6
42.5°	1550.0	1403.7	727.5	81.1	57.3	45.5	41.5	37.6	33.6	33.6	31.6
45°	1818.9	1619.2	650.4	71.2	51.4	41.5	37.6	33.6	31.6	29.7	29.7
47.5°	2071.9	1864.3	577.3	63.3	47.4	39.5	33.6	29.7	27.7	27.7	27.7
50°	2313.1	2052.2	492.3	59.3	43.5	37.6	31.6	27.7	25.7	23.7	23.7
52.5°	2487.1	2200.4	413.2	53.4	39.5	33.6	29.7	25.7	21.7	19.8	19.8
55°	2680.9	2350.7	342.0	47.4	37.6	31.6	25.7	21.7	17.8	15.8	15.8
57.5°	2898.3	2497.0	276.8	43.5	35.6	27.7	21.7	17.8	13.8	11.9	11.9
60°	3113.8	2613.6	221.4	39.5	31.6	25.7	19.8	13.8	9.9	7.9	7.9
62.5°	3329.3	2692.7	170.0	35.6	29.7	21.7	15.8	9.9	5.9	4.0	4.0
65°	3418.3	2671.0	126.5	31.6	25.7	17.8	13.8	9.9	5.9	4.0	4.0
67.5°	3171.2	2402.1	89.0	31.6	23.7	17.8	11.9	7.9	4.0	2.0	2.0
70°	2475.3	1854.5	65.2	31.6	23.7	17.8	11.9	7.9	4.0	2.0	2.0
72.5°	1403.7	1032.0	49.4	27.7	21.7	15.8	11.9	7.9	4.0	2.0	2.0
75°	500.2	332.1	37.6	25.7	19.8	13.8	11.9	7.9	4.0	2.0	2.0
77.5°	120.6	85.0	29.7	21.7	17.8	13.8	9.9	7.9	5.9	2.0	2.0
80°	49.4	35.6	23.7	17.8	13.8	11.9	9.9	7.9	4.0	2.0	2.0
82.5°	21.7	17.8	9.9	9.9	7.9	7.9	7.9	7.9	4.0	2.0	2.0
85°	9.9	7.9	4.0	4.0	2.0	2.0	2.0	4.0	4.0	2.0	2.0
87.5°	5.9	4.0	4.0	4.0	2.0	2.0	2.0	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)