

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: P573141

Luminaire Tested: **ARCH-S-PA2-40-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573141
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-PA2-40-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA 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: 4192 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

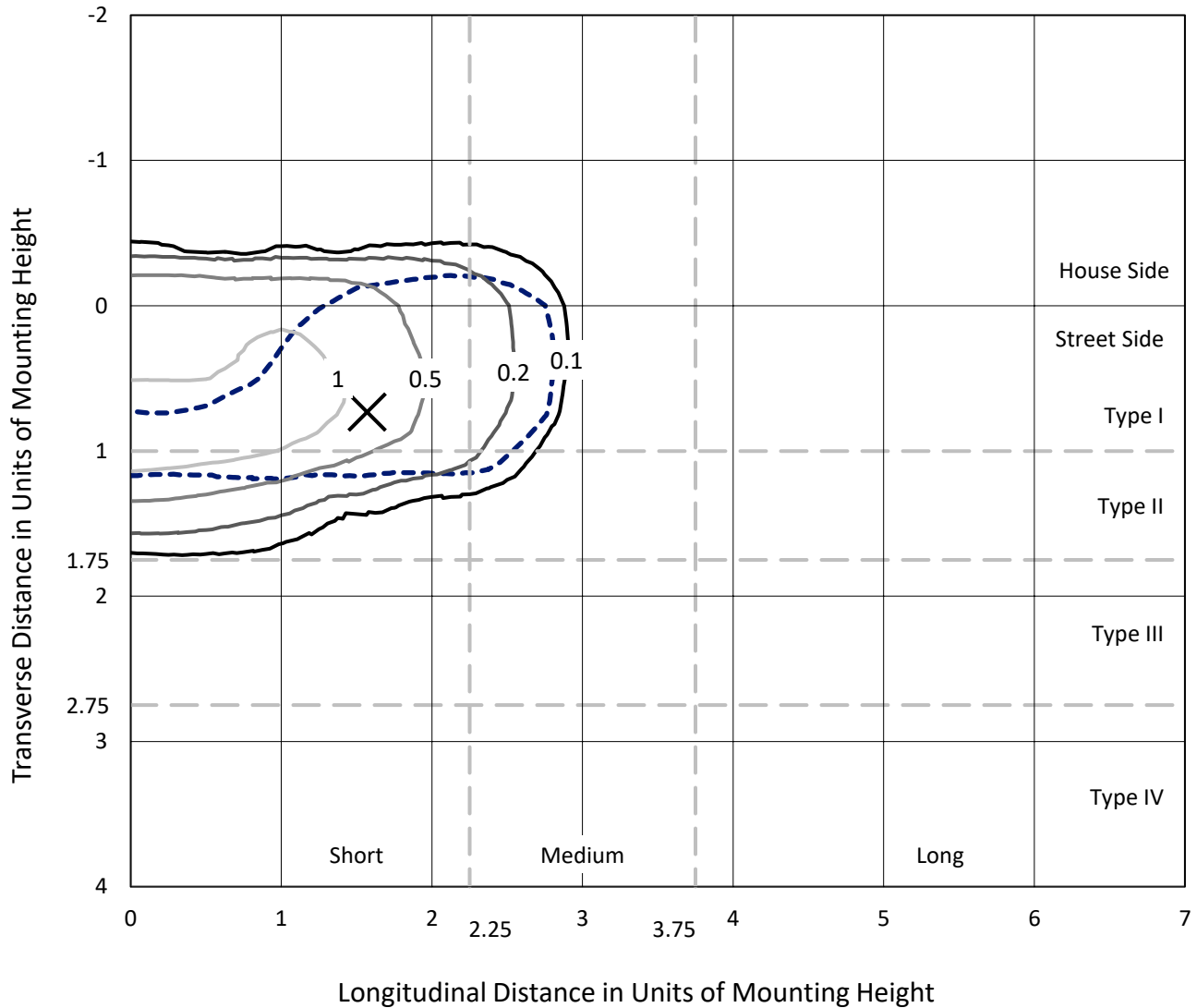
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

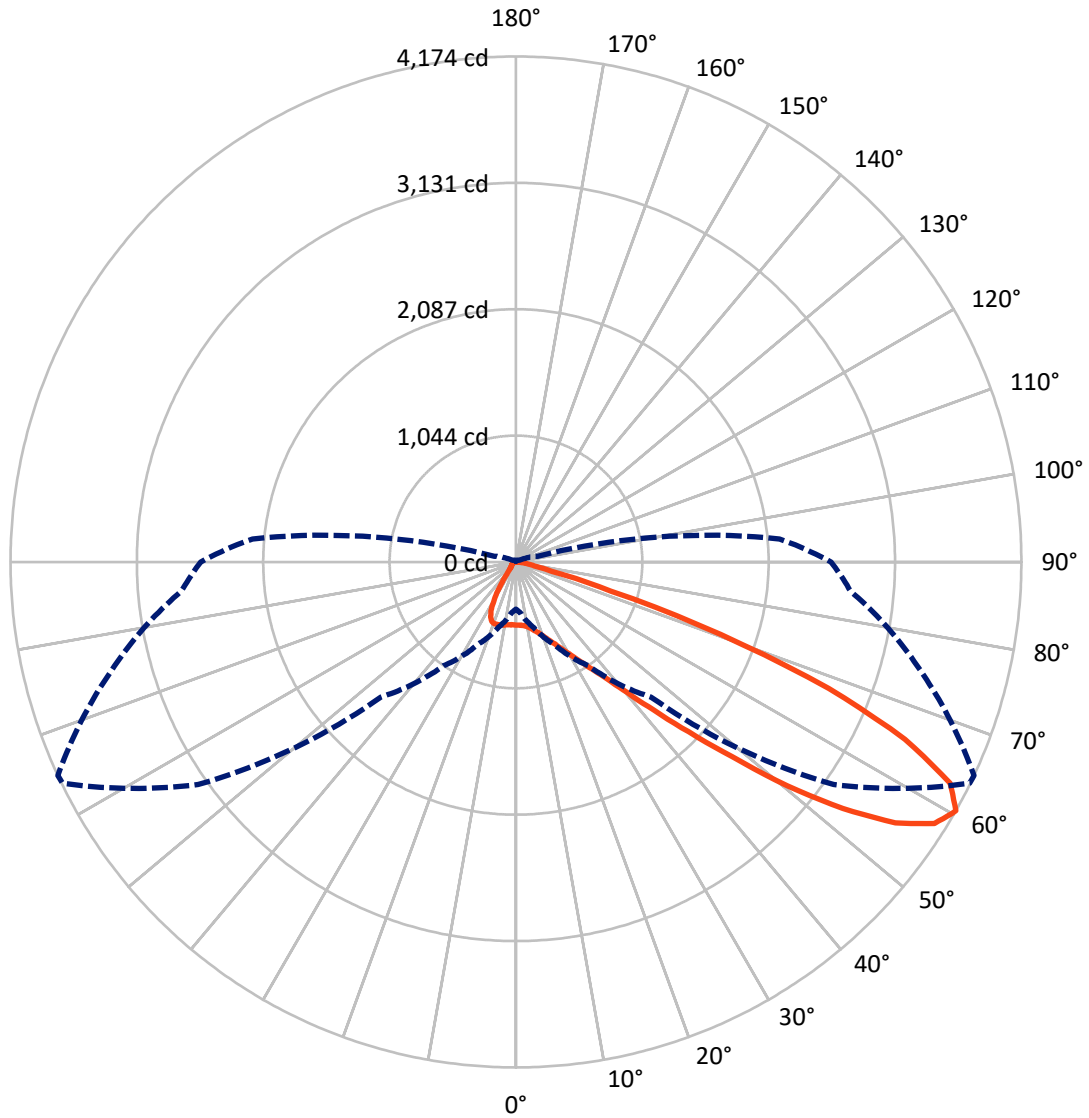
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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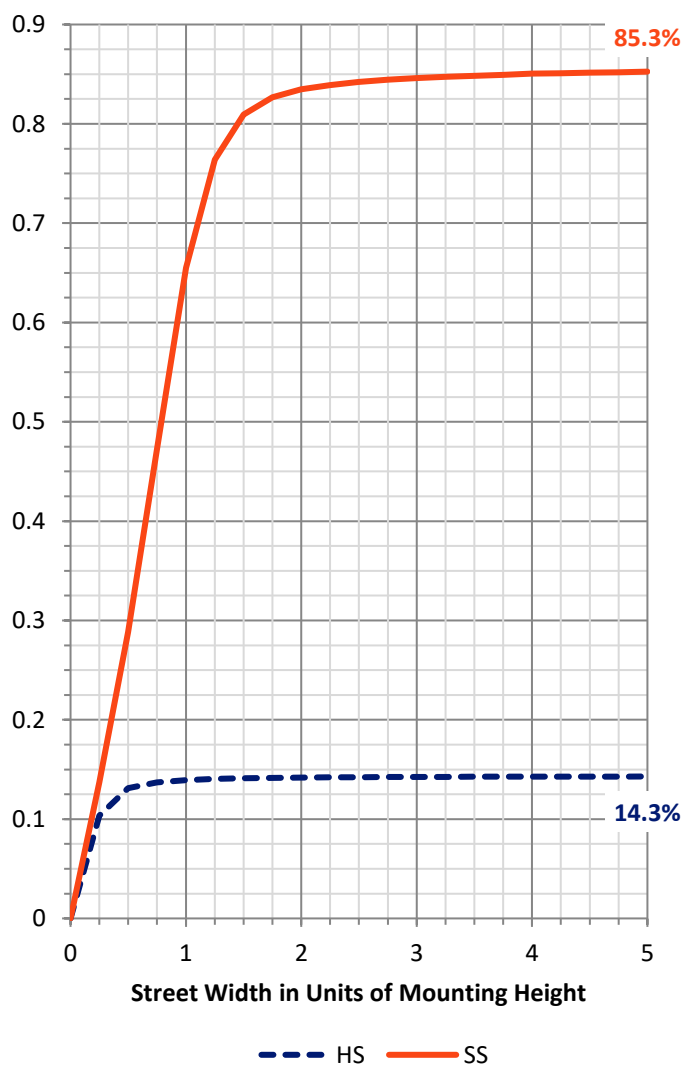
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	606.9	0.0	606.9
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	3585.1	0.0	3585.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	4192.0	0.0	4192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.2
10°-20°	140.0	3.3
20°-30°	237.9	5.7
30°-40°	490.8	11.7
40°-50°	987.1	23.5
50°-60°	1207.9	28.8
60°-70°	854.5	20.4
70°-80°	205.9	4.9
80°-90°	18.6	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°	4192.0	100.0
0°-180°	4192.0	100.0

Coefficient of Utilization

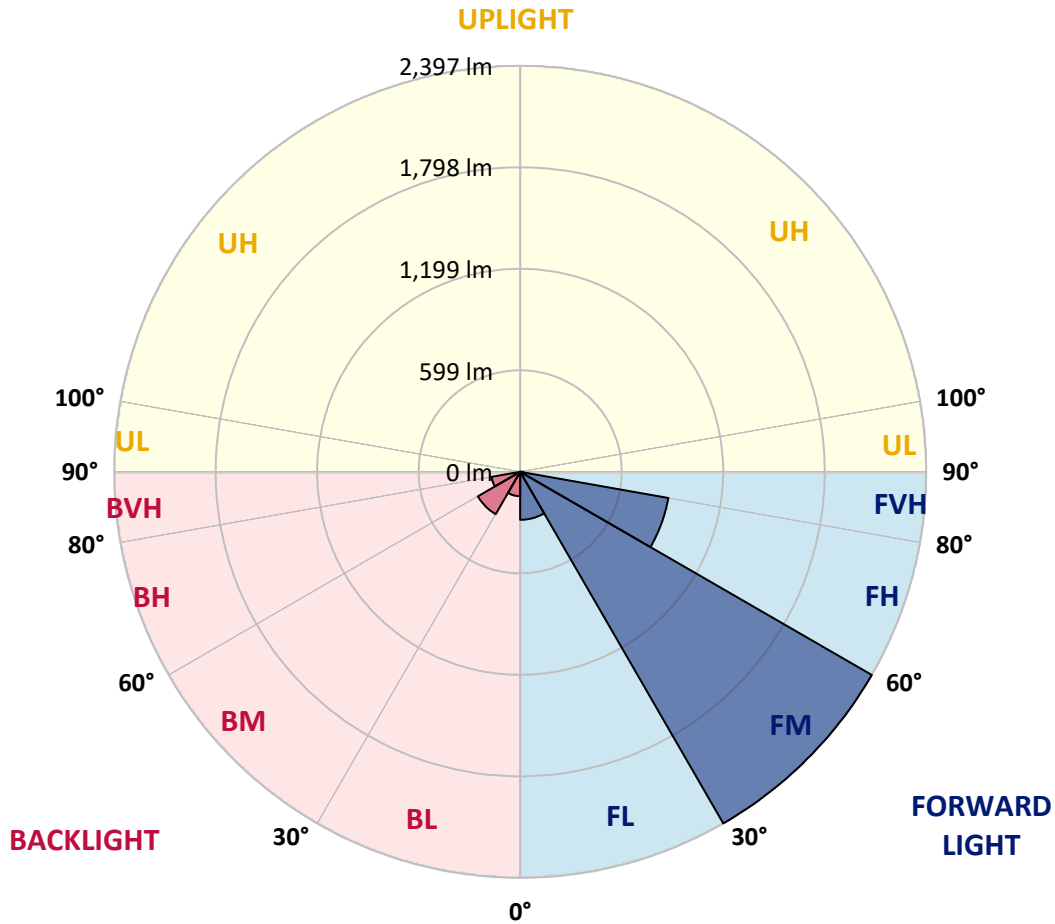


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.4	6.8			
FM (30°-60°)	2397.2	57.2			
FH (60°-80°)	888.4	21.2			G1/1800
FVH (80°-90°)	16.2	0.4			G1/100
BL (0°-30°)	143.9	3.4	B1/500		
BM (30°-60°)	288.6	6.9	B1/1000		
BH (60°-80°)	172.0	4.1	B1/500		G1/500
BVH (80°-90°)	2.4	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°	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
2.5°	523.9	522.2	522.2	522.2	523.9	523.9	525.5	522.2	522.2	522.2	522.2
5°	520.6	518.9	518.9	520.6	522.2	522.2	525.5	525.5	525.5	527.2	527.2
7.5°	527.2	523.9	523.9	525.5	527.2	527.2	530.5	532.1	532.1	535.4	537.1
10°	535.4	533.8	533.8	537.1	540.4	540.4	545.4	545.4	545.4	548.7	550.3
12.5°	547.0	545.4	545.4	550.3	555.3	558.6	561.9	563.5	565.2	565.2	565.2
15°	563.5	561.9	561.9	566.8	573.4	581.7	586.7	586.7	590.0	588.3	581.7
17.5°	586.7	585.0	586.7	590.0	598.2	606.5	616.4	618.1	616.4	613.1	603.2
20°	624.7	619.7	623.0	631.3	631.3	636.2	649.5	654.4	656.1	646.2	628.0
22.5°	664.3	664.3	667.6	677.6	671.0	677.6	689.1	697.4	700.7	692.4	662.7
25°	738.7	742.0	737.1	733.7	717.2	720.5	735.4	751.9	751.9	745.3	702.4
27.5°	902.3	899.0	864.3	816.4	773.4	776.7	791.6	813.1	814.7	799.9	742.0
30°	1137.0	1140.3	1072.5	963.5	869.3	844.5	861.0	885.8	889.1	864.3	793.2
32.5°	1503.9	1475.8	1350.2	1204.7	1027.9	938.7	945.3	971.7	981.6	960.2	874.2
35°	1978.2	1912.0	1723.7	1543.5	1287.4	1107.2	1056.0	1084.1	1089.1	1077.5	975.0
37.5°	2260.7	2207.9	2085.6	1922.0	1621.2	1332.0	1201.4	1229.5	1224.6	1201.4	1075.8
40°	2435.9	2406.2	2340.1	2264.0	2072.3	1685.6	1441.1	1417.9	1419.6	1386.5	1239.4
42.5°	2535.1	2508.6	2483.8	2503.7	2447.5	2326.8	1788.1	1682.3	1672.4	1609.6	1429.5
45°	2540.0	2500.4	2530.1	2645.8	2735.0	2895.3	2240.9	1996.3	2001.3	1897.2	1665.8
47.5°	2350.0	2318.6	2404.5	2630.9	2926.7	3267.2	2768.1	2426.0	2402.9	2197.9	1905.4
50°	1974.8	1973.2	2087.2	2407.8	2926.7	3458.9	3333.3	2930.0	2905.3	2511.9	2123.6
52.5°	1563.4	1594.7	1672.4	1976.5	2657.4	3440.7	3749.7	3450.6	3381.2	2791.2	2305.4
55°	1216.3	1204.7	1298.9	1508.8	2107.1	3126.7	3885.2	3860.5	3802.6	3039.1	2465.7
57.5°	747.0	789.9	917.2	1103.9	1533.6	2459.1	3690.2	4110.0	4075.3	3270.5	2632.6
60°	388.4	421.4	558.6	753.6	1047.7	1576.6	3202.7	4167.8	4174.4	3457.2	2774.7
62.5°	244.6	242.9	305.7	528.8	674.3	885.8	2487.1	3962.9	4025.7	3601.0	2910.2
65°	183.4	185.1	209.9	350.3	457.8	462.7	1475.8	3427.5	3531.6	3639.0	2956.5
67.5°	170.2	171.9	183.4	229.7	343.7	309.0	649.5	2642.5	2787.9	3288.7	2778.0
70°	152.0	153.7	171.9	190.0	259.5	226.4	292.5	1591.4	1793.1	2386.3	2222.7
72.5°	119.0	122.3	143.8	180.1	193.4	171.9	203.3	704.0	821.3	1312.2	1272.5
75°	87.6	89.2	109.1	138.8	170.2	122.3	157.0	279.3	305.7	492.5	419.8
77.5°	61.1	61.1	76.0	104.1	142.1	85.9	112.4	150.4	153.7	183.4	120.6
80°	38.0	39.7	47.9	71.1	87.6	82.6	69.4	100.8	100.8	95.9	49.6
82.5°	21.5	23.1	33.1	47.9	59.5	56.2	44.6	57.8	59.5	61.1	28.1
85°	9.9	11.6	19.8	29.7	34.7	26.4	26.4	29.7	29.7	39.7	16.5
87.5°	1.7	1.7	9.9	13.2	11.6	13.2	13.2	16.5	16.5	19.8	8.3
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°	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2	522.2
2.5°	520.6	520.6	520.6	518.9	518.9	517.3	514.0	514.0	514.0	514.0	515.6
5°	527.2	525.5	523.9	518.9	515.6	509.0	502.4	500.7	495.8	495.8	497.4
7.5°	535.4	535.4	530.5	522.2	514.0	502.4	490.8	482.6	474.3	472.6	471.0
10°	550.3	547.0	542.0	527.2	514.0	495.8	477.6	456.1	439.6	431.3	428.0
12.5°	561.9	560.2	550.3	533.8	512.3	484.2	442.9	393.3	353.7	332.2	332.2
15°	578.4	575.1	560.2	537.1	507.3	441.2	357.0	280.9	238.0	214.8	211.5
17.5°	594.9	588.3	570.1	538.7	485.9	363.6	249.5	180.1	150.4	138.8	135.5
20°	614.8	603.2	576.8	540.4	433.0	264.4	162.0	120.6	109.1	104.1	105.8
22.5°	641.2	621.4	583.4	530.5	353.7	171.9	114.0	97.5	90.9	85.9	85.9
25°	674.3	646.2	594.9	502.4	256.2	115.7	90.9	81.0	74.4	71.1	69.4
27.5°	704.0	669.3	606.5	452.8	163.6	90.9	76.0	67.8	61.1	59.5	57.8
30°	743.7	695.7	618.1	373.5	107.4	74.4	64.5	56.2	51.2	49.6	49.6
32.5°	811.4	747.0	639.6	284.2	81.0	64.5	54.5	47.9	44.6	43.0	43.0
35°	890.7	809.8	657.7	198.3	69.4	54.5	46.3	41.3	39.7	38.0	38.0
37.5°	973.4	884.1	661.0	125.6	61.1	47.9	41.3	38.0	34.7	34.7	34.7
40°	1122.1	1014.7	646.2	84.3	52.9	43.0	36.4	34.7	31.4	31.4	31.4
42.5°	1295.6	1173.3	608.2	67.8	47.9	38.0	34.7	31.4	28.1	28.1	26.4
45°	1520.4	1353.5	543.7	59.5	43.0	34.7	31.4	28.1	26.4	24.8	24.8
47.5°	1731.9	1558.4	482.6	52.9	39.7	33.1	28.1	24.8	23.1	23.1	23.1
50°	1933.5	1715.4	411.5	49.6	36.4	31.4	26.4	23.1	21.5	19.8	19.8
52.5°	2079.0	1839.3	345.4	44.6	33.1	28.1	24.8	21.5	18.2	16.5	16.5
55°	2240.9	1964.9	285.9	39.7	31.4	26.4	21.5	18.2	14.9	13.2	13.2
57.5°	2422.7	2087.2	231.4	36.4	29.7	23.1	18.2	14.9	11.6	9.9	9.9
60°	2602.8	2184.7	185.1	33.1	26.4	21.5	16.5	11.6	8.3	6.6	6.6
62.5°	2783.0	2250.8	142.1	29.7	24.8	18.2	13.2	8.3	5.0	3.3	3.3
65°	2857.3	2232.6	105.8	26.4	21.5	14.9	11.6	8.3	5.0	3.3	3.3
67.5°	2650.8	2007.9	74.4	26.4	19.8	14.9	9.9	6.6	3.3	1.7	1.7
70°	2069.0	1550.1	54.5	26.4	19.8	14.9	9.9	6.6	3.3	1.7	1.7
72.5°	1173.3	862.7	41.3	23.1	18.2	13.2	9.9	6.6	3.3	1.7	1.7
75°	418.1	277.6	31.4	21.5	16.5	11.6	9.9	6.6	3.3	1.7	1.7
77.5°	100.8	71.1	24.8	18.2	14.9	11.6	8.3	6.6	5.0	1.7	1.7
80°	41.3	29.7	19.8	14.9	11.6	9.9	8.3	6.6	3.3	1.7	1.7
82.5°	18.2	14.9	8.3	8.3	6.6	6.6	6.6	6.6	3.3	1.7	1.7
85°	8.3	6.6	3.3	3.3	1.7	1.7	1.7	3.3	3.3	1.7	1.7
87.5°	5.0	3.3	3.3	3.3	1.7	1.7	1.7	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)