

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: P799938

Luminaire Tested: **ARCH2-60-750-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6639 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.8
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

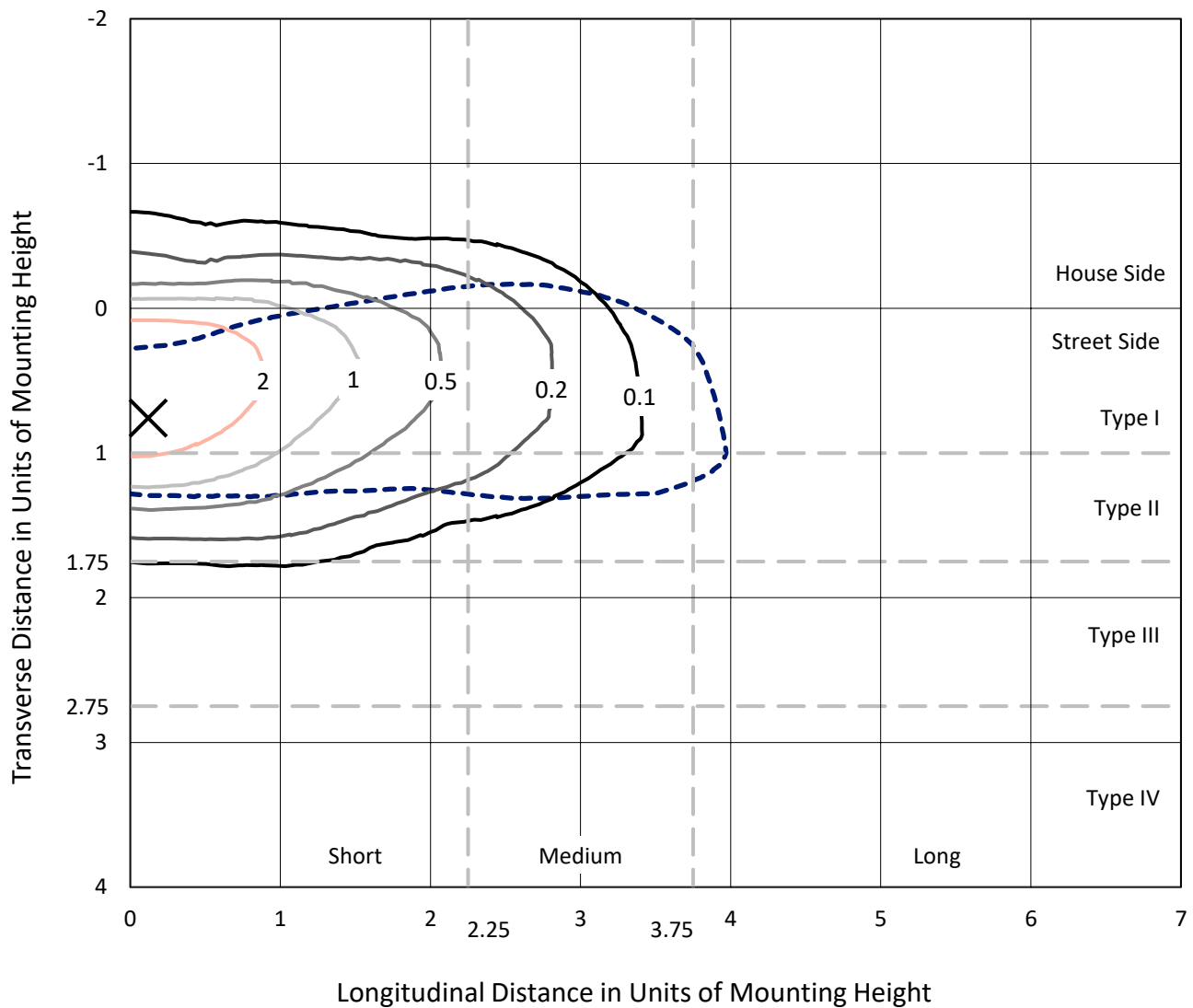


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

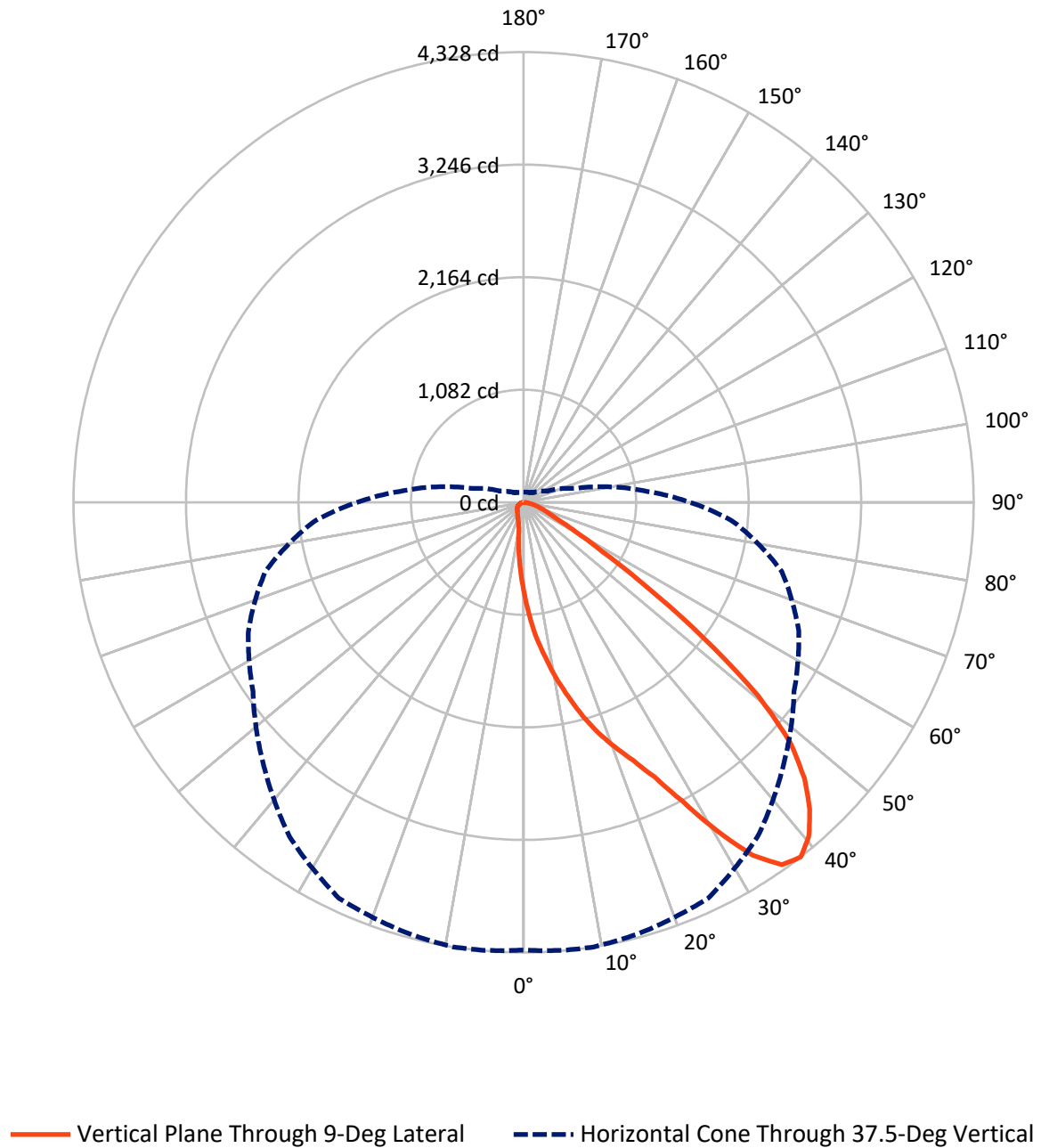


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.4	0.0	807.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	5831.6	0.0	5831.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	6639.0	0.0	6639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.3
10°-20°	306.6	4.6
20°-30°	630.0	9.5
30°-40°	1113.5	16.8
40°-50°	1479.2	22.3
50°-60°	1403.0	21.1
60°-70°	1070.3	16.1
70°-80°	518.9	7.8
80°-90°	29.2	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°	6639.0	100.0
0°-180°	6639.0	100.0

Coefficient of Utilization



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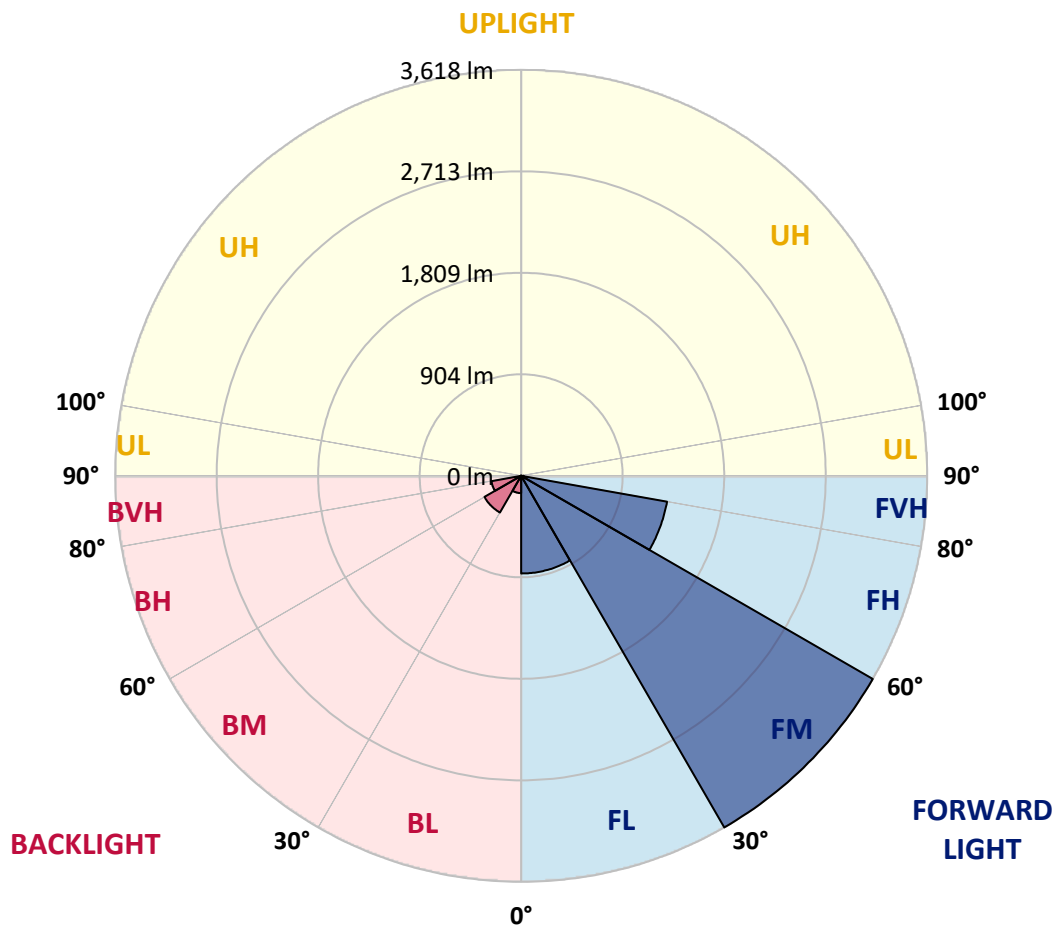
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.7	13.1			
FM	(30°-60°)	3617.9	54.5			
FH	(60°-80°)	1319.8	19.9			G1/1800
FVH	(80°-90°)	23.1	0.3			G1/100
BL	(0°-30°)	154.1	2.3	B1/500		
BM	(30°-60°)	377.8	5.7	B1/1000		
BH	(60°-80°)	269.4	4.1	B1/500		G1/500
BVH	(80°-90°)	6.1	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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6
2.5°	1087.5	1068.4	1090.2	1087.5	1068.4	1056.1	1018.0	1005.7	960.7	928.0	899.4
5°	1310.9	1291.9	1310.9	1305.5	1278.2	1248.3	1185.6	1144.7	1064.3	993.4	929.4
7.5°	1496.3	1496.3	1504.4	1505.8	1473.1	1426.8	1349.1	1287.8	1174.7	1065.7	963.4
10°	1696.6	1698.0	1715.7	1703.4	1659.8	1597.1	1499.0	1421.3	1285.1	1142.0	996.2
12.5°	1910.5	1911.9	1917.4	1911.9	1860.1	1779.7	1661.2	1559.0	1402.2	1229.2	1041.1
15°	2124.5	2125.9	2132.7	2123.1	2065.9	1971.9	1837.0	1711.6	1526.3	1327.3	1095.6
17.5°	2324.8	2327.5	2333.0	2320.7	2260.8	2149.0	2011.4	1860.1	1658.4	1432.2	1157.0
20°	2504.7	2507.4	2511.5	2495.2	2435.2	2323.4	2174.9	2016.8	1793.3	1539.9	1223.7
22.5°	2685.9	2688.7	2695.5	2673.7	2606.9	2478.8	2333.0	2169.5	1936.4	1658.4	1301.4
25°	2917.6	2920.3	2925.8	2894.4	2803.1	2653.2	2499.2	2331.6	2091.8	1792.0	1396.8
27.5°	3256.9	3254.2	3254.2	3197.0	3040.2	2845.4	2666.9	2496.5	2259.4	1935.1	1501.7
30°	3676.6	3669.8	3665.7	3588.1	3364.6	3062.0	2838.6	2650.5	2420.2	2086.3	1614.8
32.5°	4052.7	4052.7	4044.6	3962.8	3725.7	3353.7	3021.2	2800.4	2575.6	2239.0	1732.0
35°	4274.9	4284.4	4280.3	4219.0	4045.9	3667.1	3267.8	2980.3	2739.1	2398.4	1872.4
37.5°	4304.9	4323.9	4328.0	4291.2	4199.9	3923.3	3541.7	3175.2	2919.0	2570.1	2008.7
40°	4183.6	4224.5	4224.5	4219.0	4186.3	4044.6	3772.0	3401.4	3104.3	2748.6	2146.3
42.5°	3996.9	4039.1	4033.7	4054.1	4045.9	4016.0	3901.5	3612.6	3289.6	2932.6	2271.7
45°	3752.9	3796.6	3785.7	3822.4	3838.8	3871.5	3887.9	3759.8	3472.2	3132.9	2412.0
47.5°	3361.8	3435.4	3451.8	3517.2	3585.3	3687.5	3765.2	3812.9	3642.6	3348.2	2564.7
50°	2784.0	2887.6	2920.3	3058.0	3244.7	3455.9	3581.2	3747.5	3762.5	3569.0	2729.5
52.5°	1993.7	2113.6	2164.0	2390.2	2774.5	3142.4	3368.7	3603.0	3808.8	3780.2	2908.1
55°	1289.1	1391.3	1440.4	1653.0	2164.0	2741.8	3117.9	3416.4	3782.9	3973.7	3112.5
57.5°	794.5	853.1	885.8	1068.4	1538.5	2228.1	2789.5	3244.7	3703.9	4141.3	3325.1
60°	535.6	569.6	586.0	671.8	1045.2	1665.3	2338.4	3064.8	3600.3	4254.4	3518.6
62.5°	355.7	366.6	382.9	436.1	689.5	1169.2	1796.1	2743.2	3522.6	4261.2	3661.6
65°	275.3	280.7	287.5	310.7	425.2	817.6	1263.2	2222.6	3406.8	4116.8	3706.6
67.5°	216.7	222.1	230.3	242.6	308.0	554.6	859.9	1628.5	3169.7	3890.6	3633.0
70°	170.3	174.4	179.9	190.8	239.8	402.0	568.3	1082.0	2691.4	3675.3	3401.4
72.5°	134.9	139.0	144.4	155.4	194.9	294.3	389.7	674.5	2075.4	3412.3	2955.8
75°	106.3	109.0	113.1	124.0	156.7	228.9	264.4	403.4	1410.4	2931.2	2303.0
77.5°	53.1	65.4	74.9	85.9	114.5	158.1	175.8	223.5	595.5	1504.4	1098.4
80°	31.3	38.2	40.9	47.7	74.9	95.4	95.4	89.9	188.1	577.8	448.3
82.5°	17.7	24.5	25.9	27.3	45.0	54.5	43.6	32.7	38.2	193.5	130.8
85°	5.5	8.2	9.5	10.9	15.0	16.4	15.0	13.6	10.9	19.1	12.3
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	2.7	2.7	4.1	4.1	4.1
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°	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6	877.6
2.5°	883.0	865.3	831.3	799.9	769.9	748.1	727.7	708.6	695.0	684.1	682.7
5°	895.3	859.9	794.5	733.1	677.3	630.9	591.4	560.1	536.9	520.6	519.2
7.5°	911.7	857.2	757.7	666.4	583.2	516.5	459.2	417.0	387.0	374.7	365.2
10°	925.3	854.4	720.9	599.6	490.6	406.1	338.0	295.7	273.9	265.7	261.6
12.5°	948.5	857.2	689.5	538.3	410.2	310.7	258.9	235.8	226.2	219.4	218.0
15°	982.5	869.4	659.6	478.3	328.4	250.7	220.8	205.8	196.2	194.9	193.5
17.5°	1016.6	880.3	632.3	417.0	272.5	218.0	197.6	185.3	178.5	177.2	177.2
20°	1056.1	893.9	602.3	358.4	233.0	196.2	179.9	170.3	162.2	160.8	160.8
22.5°	1102.4	913.0	573.7	306.6	207.1	179.9	166.3	155.4	148.5	147.2	147.2
25°	1165.1	941.6	550.5	268.5	189.4	166.3	154.0	144.4	139.0	136.3	136.3
27.5°	1234.6	981.2	534.2	245.3	177.2	155.4	143.1	134.9	129.5	126.7	126.7
30°	1312.3	1024.8	523.3	235.8	170.3	145.8	134.9	126.7	119.9	118.6	118.6
32.5°	1398.2	1075.2	516.5	237.1	169.0	139.0	126.7	118.6	113.1	110.4	110.4
35°	1493.5	1131.1	512.4	245.3	171.7	133.5	119.9	111.7	106.3	103.6	103.6
37.5°	1599.8	1196.5	512.4	253.5	178.5	132.2	113.1	104.9	100.8	98.1	98.1
40°	1699.3	1266.0	517.8	263.0	185.3	132.2	107.7	100.8	95.4	92.7	92.7
42.5°	1777.0	1305.5	521.9	272.5	189.4	130.8	102.2	95.4	91.3	88.6	88.6
45°	1865.6	1347.7	513.7	276.6	189.4	128.1	98.1	91.3	87.2	84.5	84.5
47.5°	1963.7	1399.5	512.4	279.4	185.3	122.6	94.0	87.2	84.5	81.8	81.8
50°	2063.2	1456.8	515.1	278.0	179.9	114.5	88.6	84.5	80.4	77.7	77.7
52.5°	2176.3	1516.7	520.6	275.3	167.6	104.9	84.5	80.4	76.3	73.6	72.2
55°	2301.6	1582.1	531.5	269.8	151.3	95.4	80.4	76.3	70.9	68.1	66.8
57.5°	2446.1	1662.5	543.7	258.9	133.5	87.2	76.3	70.9	62.7	58.6	57.2
60°	2583.7	1753.8	557.4	233.0	115.8	79.0	72.2	64.0	55.9	53.1	51.8
62.5°	2713.2	1843.8	564.2	186.7	98.1	72.2	68.1	58.6	50.4	47.7	46.3
65°	2796.3	1941.9	549.2	126.7	80.4	66.8	62.7	54.5	46.3	42.2	42.2
67.5°	2801.8	1988.2	497.4	83.1	65.4	60.0	57.2	49.1	40.9	38.2	36.8
70°	2664.1	1918.7	380.2	65.4	54.5	51.8	51.8	43.6	35.4	32.7	31.3
72.5°	2348.0	1699.3	242.6	53.1	46.3	43.6	43.6	36.8	31.3	27.3	25.9
75°	1853.3	1310.9	129.5	43.6	38.2	36.8	34.1	30.0	25.9	23.2	21.8
77.5°	851.7	577.8	60.0	31.3	28.6	28.6	25.9	21.8	20.4	17.7	17.7
80°	336.6	196.2	30.0	20.4	19.1	19.1	19.1	15.0	15.0	12.3	10.9
82.5°	92.7	40.9	15.0	12.3	12.3	12.3	10.9	9.5	9.5	8.2	8.2
85°	9.5	6.8	6.8	6.8	6.8	5.5	5.5	4.1	2.7	2.7	2.7
87.5°	4.1	4.1	4.1	4.1	4.1	2.7	1.4	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)