

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: P800018

Luminaire Tested: **ARCH2-70-730-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800018
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: ARCH2-70-730-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

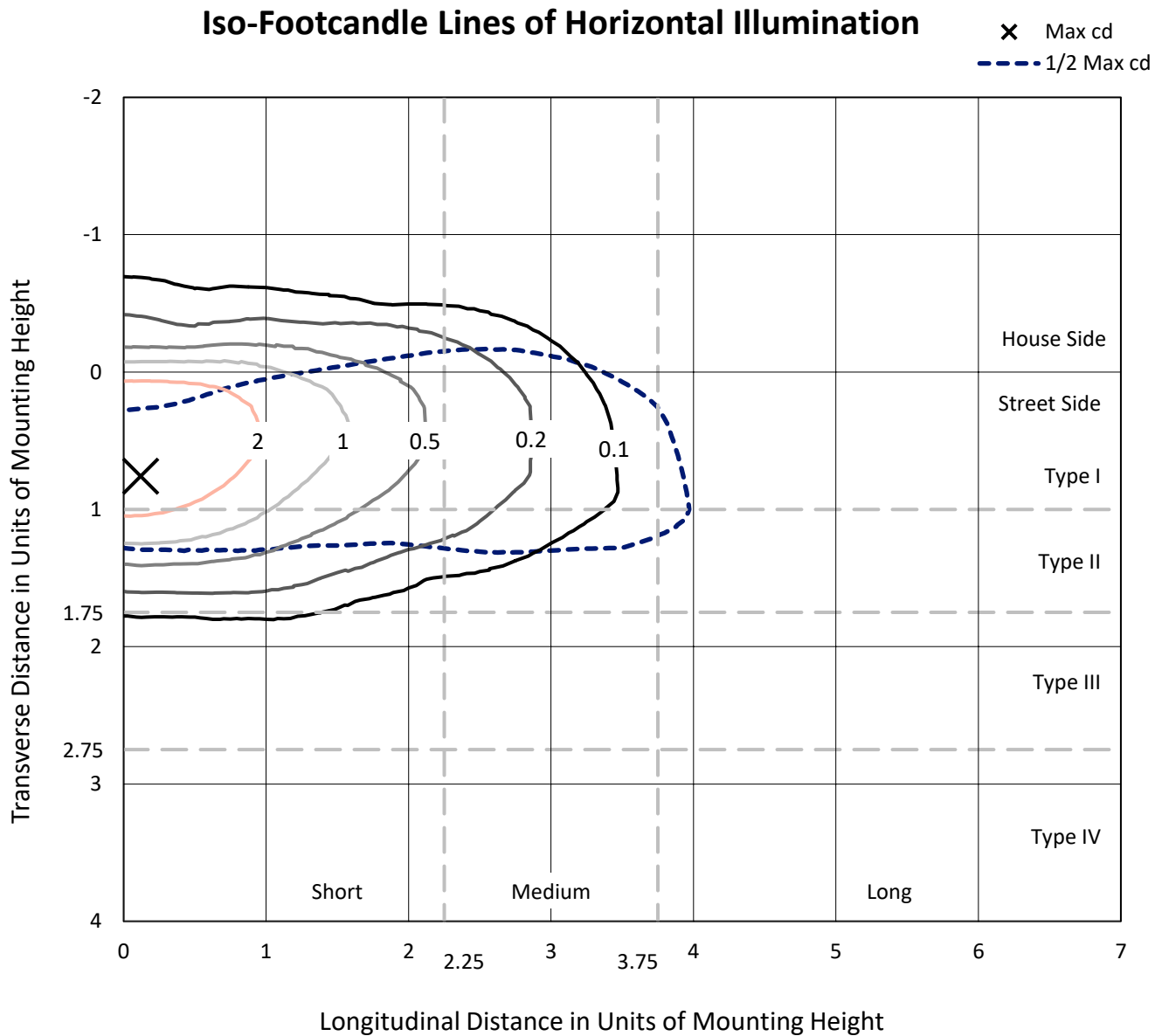
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7083 lumens
Efficiency: N/A
Efficacy: 96.2 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): 73.6
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



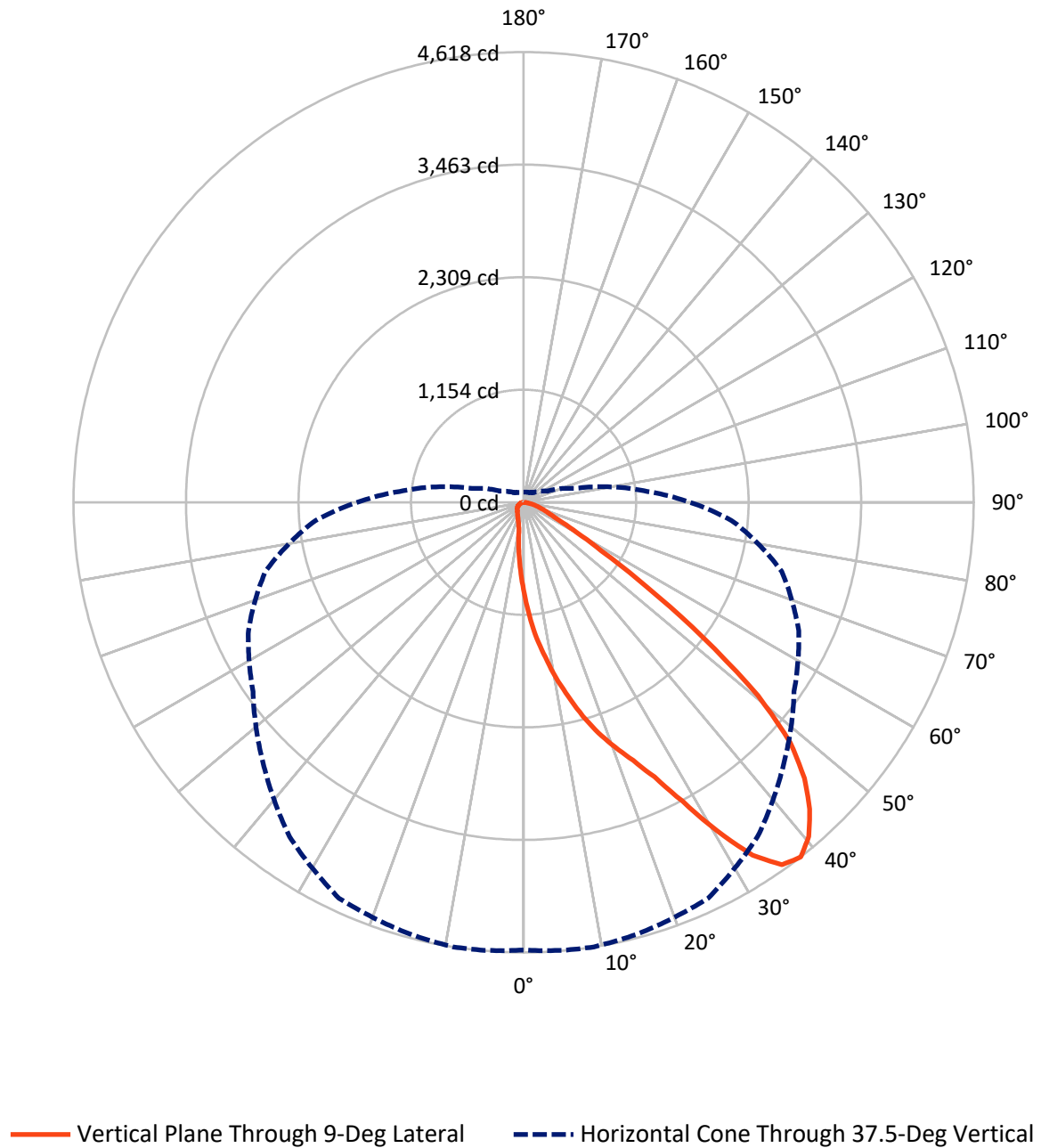
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Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	861.4	0.0	861.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6221.6	0.0	6221.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	7083.0	0.0	7083.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	1.3
10°-20°	327.1	4.6
20°-30°	672.1	9.5
30°-40°	1188.0	16.8
40°-50°	1578.2	22.3
50°-60°	1496.8	21.1
60°-70°	1141.9	16.1
70°-80°	553.6	7.8
80°-90°	31.2	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°	7083.0	100.0
0°-180°	7083.0	100.0

Coefficient of Utilization



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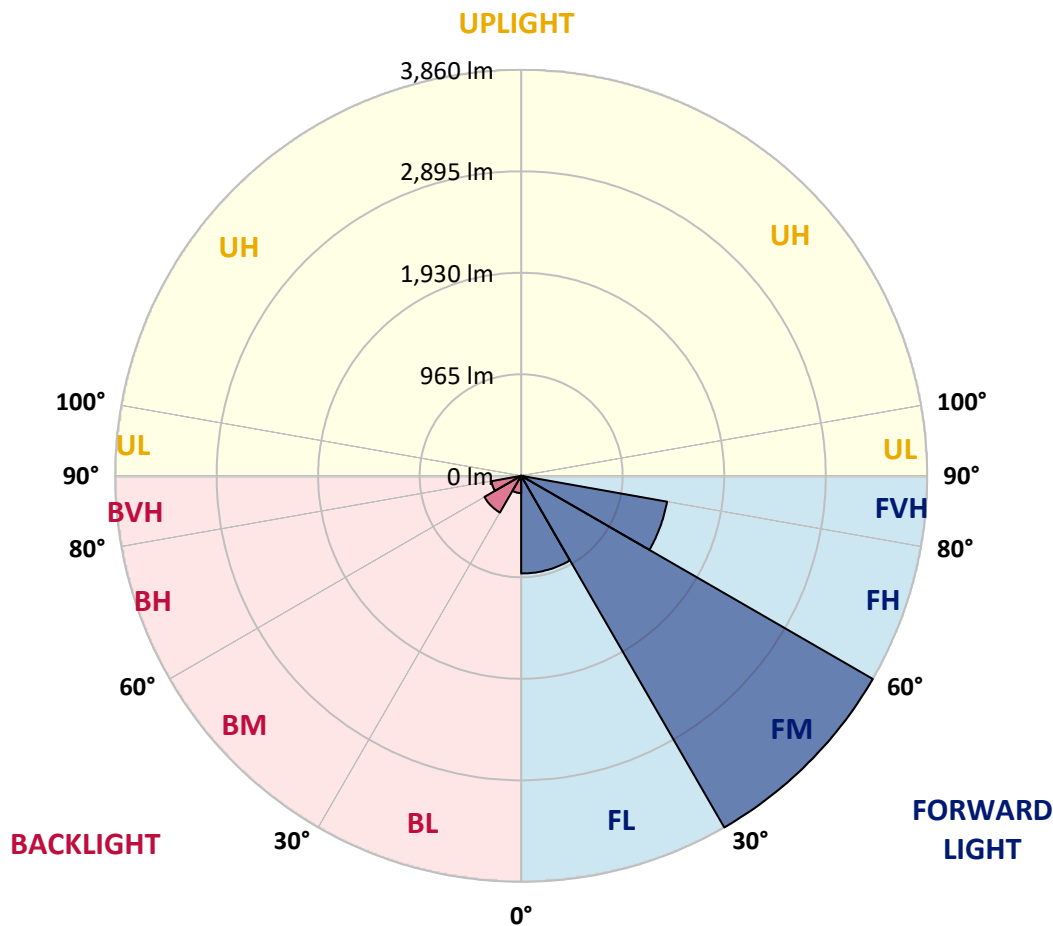
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	928.9	13.1			
FM	(30°-60°)	3859.9	54.5			
FH	(60°-80°)	1408.1	19.9			G1/1800
FVH	(80°-90°)	24.7	0.3			G1/100
BL	(0°-30°)	164.4	2.3	B1/500		
BM	(30°-60°)	403.1	5.7	B1/1000		
BH	(60°-80°)	287.5	4.1	B1/500		G1/500
BVH	(80°-90°)	6.5	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°	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3
2.5°	1160.2	1139.8	1163.1	1160.2	1139.8	1126.7	1086.0	1072.9	1025.0	990.1	959.5
5°	1398.6	1378.3	1398.6	1392.8	1363.7	1331.7	1264.9	1221.2	1135.5	1059.9	991.5
7.5°	1596.3	1596.3	1605.1	1606.5	1571.6	1522.2	1439.3	1373.9	1253.2	1136.9	1027.9
10°	1810.1	1811.5	1830.4	1817.3	1770.8	1703.9	1599.2	1516.4	1371.0	1218.3	1062.8
12.5°	2038.3	2039.8	2045.6	2039.8	1984.5	1898.7	1772.3	1663.2	1496.0	1311.4	1110.8
15°	2266.6	2268.0	2275.3	2265.1	2204.1	2103.7	1959.8	1826.1	1628.3	1416.1	1168.9
17.5°	2480.3	2483.2	2489.0	2475.9	2412.0	2292.7	2145.9	1984.5	1769.3	1528.0	1234.3
20°	2672.2	2675.1	2679.5	2662.0	2598.1	2478.8	2320.4	2151.7	1913.3	1642.9	1305.6
22.5°	2865.6	2868.5	2875.7	2852.5	2781.2	2644.6	2489.0	2314.5	2065.9	1769.3	1388.4
25°	3112.7	3115.6	3121.4	3088.0	2990.6	2830.7	2666.4	2487.6	2231.7	1911.8	1490.2
27.5°	3474.7	3471.8	3471.8	3410.8	3243.6	3035.7	2845.2	2663.5	2410.5	2064.5	1602.2
30°	3922.5	3915.2	3910.9	3828.0	3589.6	3266.8	3028.4	2827.8	2582.1	2225.9	1722.8
32.5°	4323.8	4323.8	4315.1	4227.8	3974.9	3578.0	3223.2	2987.7	2747.8	2388.7	1847.9
35°	4560.8	4570.9	4566.6	4501.2	4316.5	3912.3	3486.4	3179.6	2922.3	2558.8	1997.6
37.5°	4592.7	4613.1	4617.5	4578.2	4480.8	4185.7	3778.6	3387.5	3114.2	2742.0	2143.0
40°	4463.4	4507.0	4507.0	4501.2	4466.3	4315.1	4024.3	3628.8	3311.9	2932.4	2289.8
42.5°	4264.2	4309.2	4303.4	4325.2	4316.5	4284.5	4162.4	3854.2	3509.6	3128.7	2423.6
45°	4003.9	4050.5	4038.8	4078.1	4095.5	4130.4	4147.9	4011.2	3704.4	3342.4	2573.3
47.5°	3586.7	3665.2	3682.6	3752.4	3825.1	3934.1	4017.0	4067.9	3886.2	3572.1	2736.2
50°	2970.2	3080.7	3115.6	3262.5	3461.6	3687.0	3820.7	3998.1	4014.1	3807.7	2912.1
52.5°	2127.0	2254.9	2308.7	2550.1	2960.1	3352.6	3593.9	3844.0	4063.5	4033.0	3102.5
55°	1375.4	1484.4	1536.7	1763.5	2308.7	2925.2	3326.4	3644.8	4035.9	4239.5	3320.6
57.5°	847.6	910.1	945.0	1139.8	1641.4	2377.1	2976.1	3461.6	3951.6	4418.3	3547.4
60°	571.4	607.7	625.2	716.8	1115.1	1776.6	2494.8	3269.7	3841.1	4539.0	3753.9
62.5°	379.5	391.1	408.5	465.2	735.7	1247.4	1916.2	2926.6	3758.2	4546.2	3906.5
65°	293.7	299.5	306.8	331.5	453.6	872.3	1347.7	2371.2	3634.7	4392.1	3954.5
67.5°	231.2	237.0	245.7	258.8	328.6	591.7	917.4	1737.4	3381.7	4150.8	3876.0
70°	181.7	186.1	191.9	203.5	255.9	428.9	606.3	1154.4	2871.4	3921.1	3628.8
72.5°	143.9	148.3	154.1	165.7	207.9	314.0	415.8	719.7	2214.2	3640.5	3153.4
75°	113.4	116.3	120.7	132.3	167.2	244.2	282.0	430.3	1504.7	3127.3	2457.0
77.5°	56.7	69.8	80.0	91.6	122.1	168.6	187.5	238.4	635.3	1605.1	1171.8
80°	33.4	40.7	43.6	50.9	80.0	101.8	101.8	96.0	200.6	616.4	478.3
82.5°	18.9	26.2	27.6	29.1	48.0	58.2	46.5	34.9	40.7	206.4	139.6
85°	5.8	8.7	10.2	11.6	16.0	17.4	16.0	14.5	11.6	20.4	13.1
87.5°	0.0	0.0	0.0	0.0	1.5	2.9	2.9	2.9	4.4	4.4	4.4
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°	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3	936.3
2.5°	942.1	923.2	886.9	853.4	821.4	798.2	776.4	756.0	741.5	729.8	728.4
5°	955.2	917.4	847.6	782.2	722.6	673.1	631.0	597.5	572.8	555.4	553.9
7.5°	972.6	914.5	808.3	710.9	622.3	551.0	490.0	444.9	412.9	399.8	389.6
10°	987.2	911.6	769.1	639.7	523.4	433.3	360.6	315.5	292.2	283.5	279.1
12.5°	1011.9	914.5	735.7	574.3	437.6	331.5	276.2	251.5	241.3	234.1	232.6
15°	1048.2	927.6	703.7	510.3	350.4	267.5	235.5	219.5	209.4	207.9	206.4
17.5°	1084.6	939.2	674.6	444.9	290.8	232.6	210.8	197.7	190.5	189.0	189.0
20°	1126.7	953.7	642.6	382.4	248.6	209.4	191.9	181.7	173.0	171.6	171.6
22.5°	1176.2	974.1	612.1	327.1	221.0	191.9	177.4	165.7	158.5	157.0	157.0
25°	1243.1	1004.6	587.4	286.4	202.1	177.4	164.3	154.1	148.3	145.4	145.4
27.5°	1317.2	1046.8	569.9	261.7	189.0	165.7	152.7	143.9	138.1	135.2	135.2
30°	1400.1	1093.3	558.3	251.5	181.7	155.6	143.9	135.2	127.9	126.5	126.5
32.5°	1491.7	1147.1	551.0	253.0	180.3	148.3	135.2	126.5	120.7	117.8	117.8
35°	1593.4	1206.7	546.7	261.7	183.2	142.5	127.9	119.2	113.4	110.5	110.5
37.5°	1706.8	1276.5	546.7	270.4	190.5	141.0	120.7	111.9	107.6	104.7	104.7
40°	1813.0	1350.6	552.5	280.6	197.7	141.0	114.9	107.6	101.8	98.9	98.9
42.5°	1895.8	1392.8	556.8	290.8	202.1	139.6	109.0	101.8	97.4	94.5	94.5
45°	1990.3	1437.9	548.1	295.1	202.1	136.7	104.7	97.4	93.0	90.1	90.1
47.5°	2095.0	1493.1	546.7	298.0	197.7	130.8	100.3	93.0	90.1	87.2	87.2
50°	2201.1	1554.2	549.6	296.6	191.9	122.1	94.5	90.1	85.8	82.9	82.9
52.5°	2321.8	1618.1	555.4	293.7	178.8	111.9	90.1	85.8	81.4	78.5	77.1
55°	2455.6	1687.9	567.0	287.9	161.4	101.8	85.8	81.4	75.6	72.7	71.2
57.5°	2609.7	1773.7	580.1	276.2	142.5	93.0	81.4	75.6	66.9	62.5	61.1
60°	2756.5	1871.1	594.6	248.6	123.6	84.3	77.1	68.3	59.6	56.7	55.2
62.5°	2894.6	1967.1	601.9	199.2	104.7	77.1	72.7	62.5	53.8	50.9	49.4
65°	2983.3	2071.8	585.9	135.2	85.8	71.2	66.9	58.2	49.4	45.1	45.1
67.5°	2989.1	2121.2	530.7	88.7	69.8	64.0	61.1	52.3	43.6	40.7	39.3
70°	2842.3	2047.0	405.6	69.8	58.2	55.2	55.2	46.5	37.8	34.9	33.4
72.5°	2505.0	1813.0	258.8	56.7	49.4	46.5	46.5	39.3	33.4	29.1	27.6
75°	1977.3	1398.6	138.1	46.5	40.7	39.3	36.3	32.0	27.6	24.7	23.3
77.5°	908.7	616.4	64.0	33.4	30.5	30.5	27.6	23.3	21.8	18.9	18.9
80°	359.1	209.4	32.0	21.8	20.4	20.4	20.4	16.0	16.0	13.1	11.6
82.5°	98.9	43.6	16.0	13.1	13.1	13.1	11.6	10.2	10.2	8.7	8.7
85°	10.2	7.3	7.3	7.3	7.3	5.8	5.8	4.4	2.9	2.9	2.9
87.5°	4.4	4.4	4.4	4.4	4.4	2.9	1.5	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)