

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: P836810

Luminaire Tested: **ARCH3-80-722-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836810
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8065 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 81.9
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

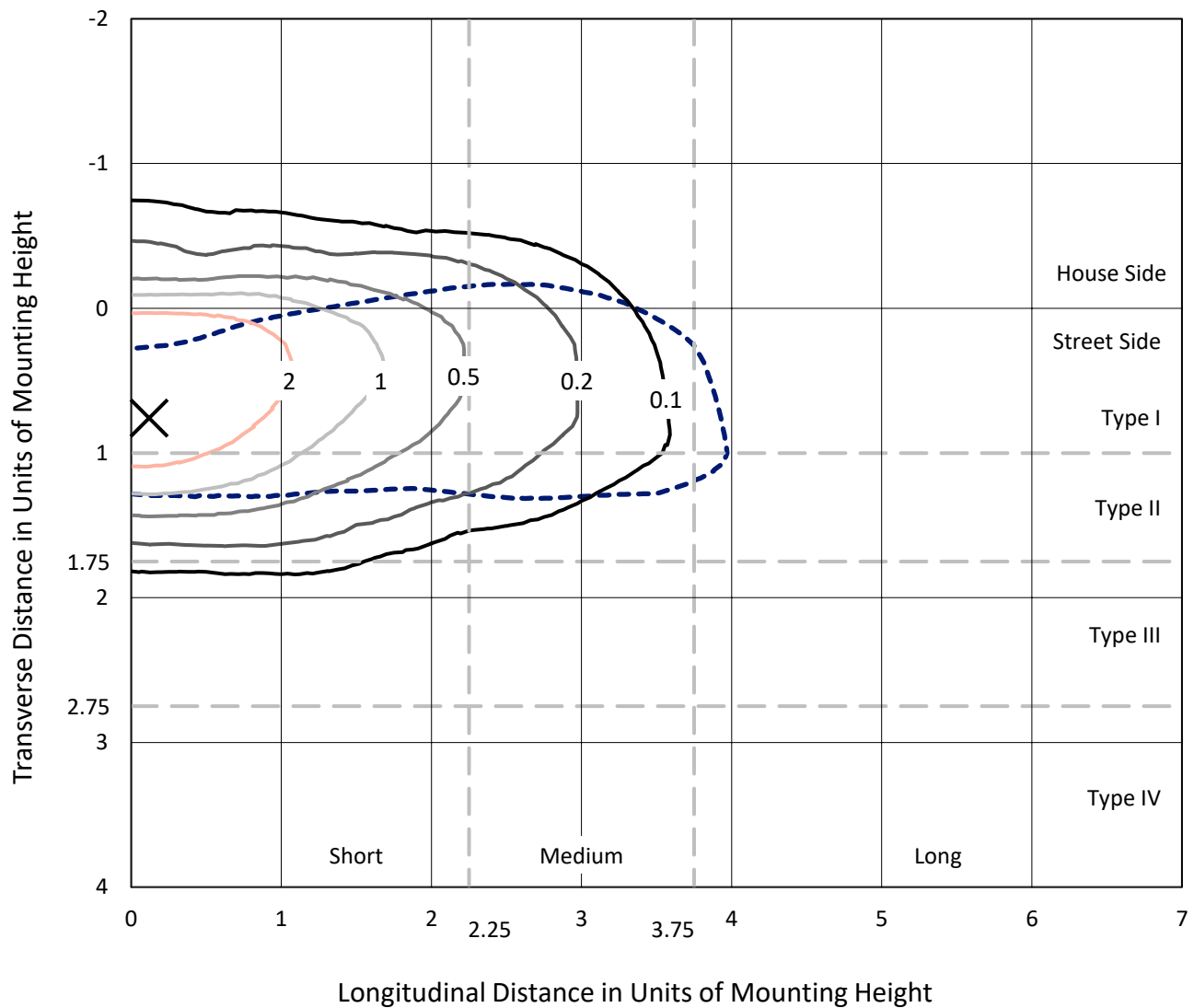


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Iso-Footcandle Lines of Horizontal Illumination

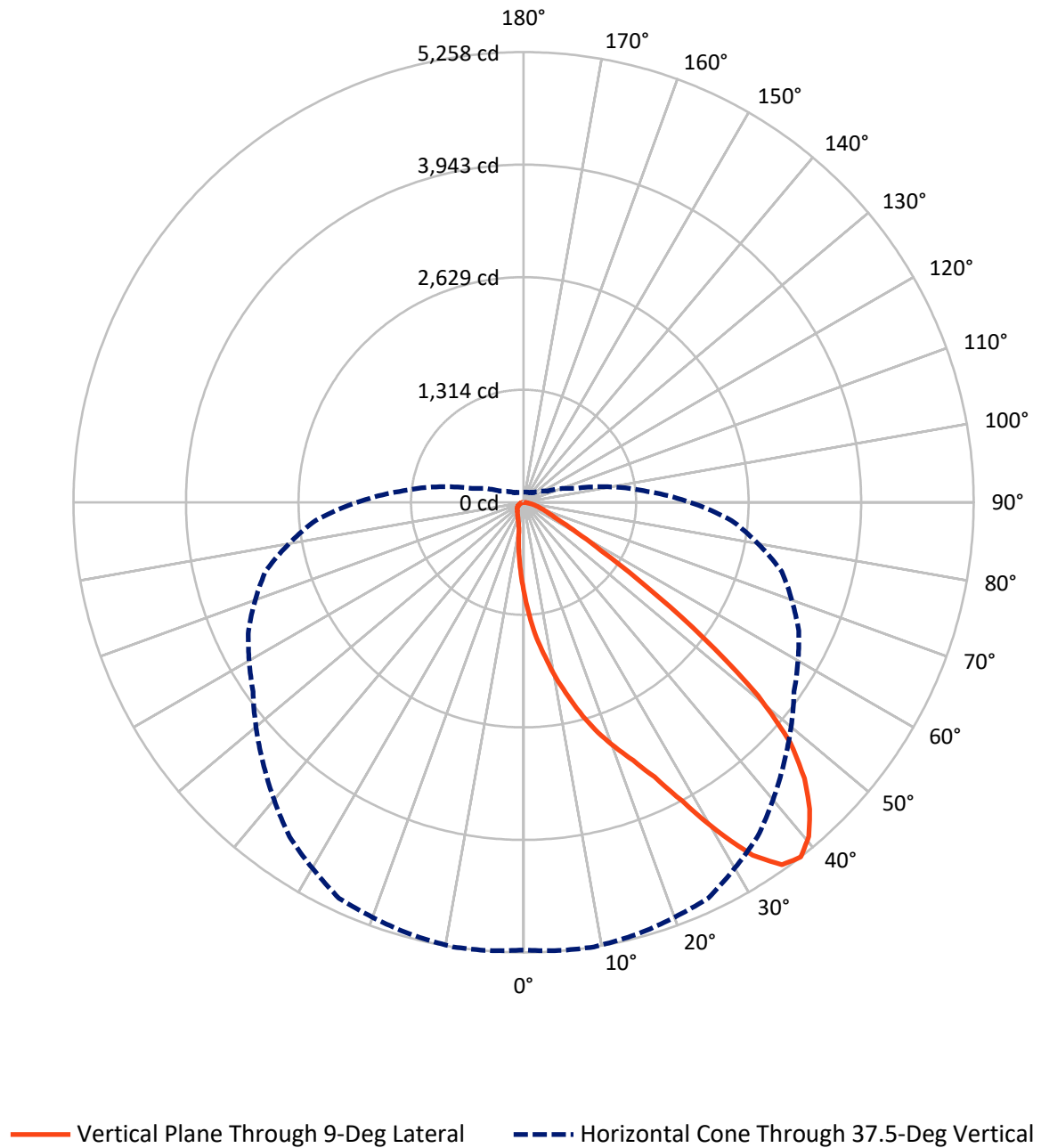
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	980.9	0.0	980.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7084.2	0.0	7084.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	8065.0	0.0	8065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.3
10°-20°	372.5	4.6
20°-30°	765.3	9.5
30°-40°	1352.7	16.8
40°-50°	1797.0	22.3
50°-60°	1704.3	21.1
60°-70°	1300.2	16.1
70°-80°	630.4	7.8
80°-90°	35.5	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°	8065.0	100.0
0°-180°	8065.0	100.0

Coefficient of Utilization



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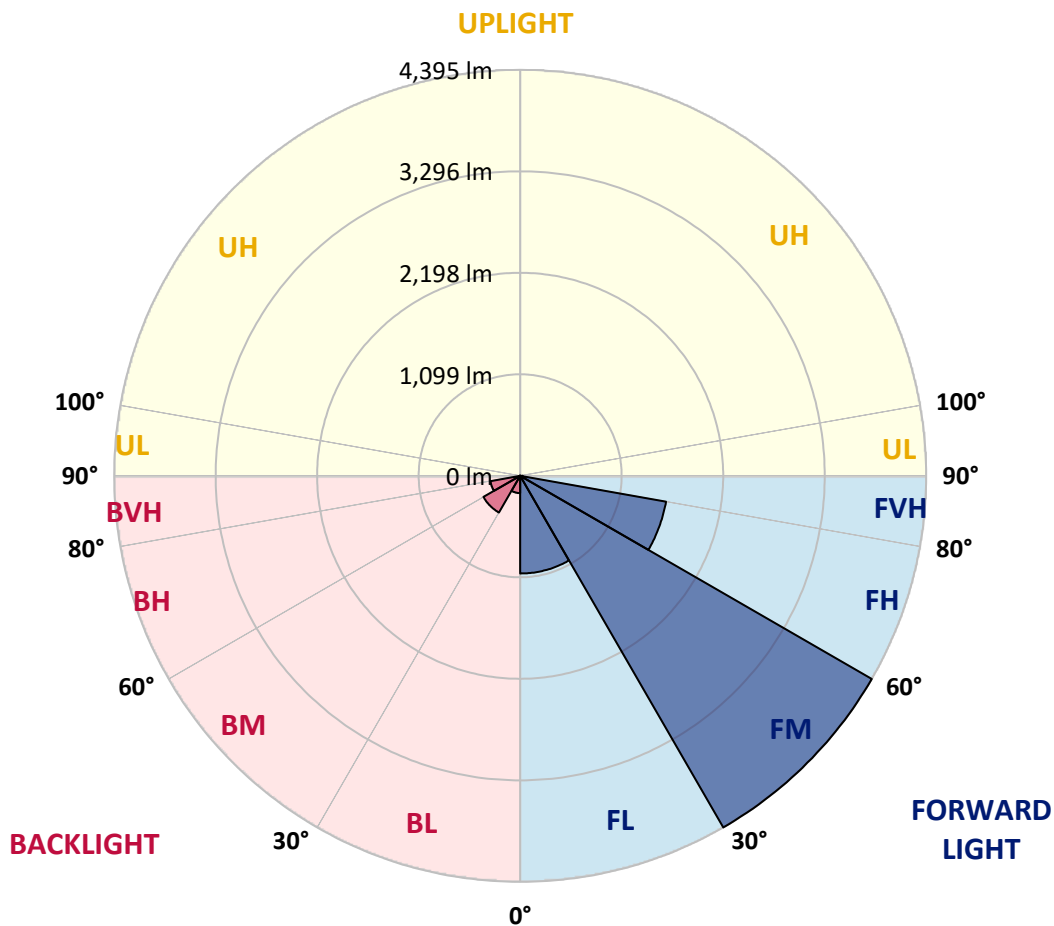
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1057.7	13.1			
FM	(30°-60°)	4395.0	54.5			
FH	(60°-80°)	1603.3	19.9			G1/1800
FVH	(80°-90°)	28.1	0.3			G1/100
BL	(0°-30°)	187.2	2.3	B1/500		
BM	(30°-60°)	459.0	5.7	B1/1000		
BH	(60°-80°)	327.3	4.1	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1321.0	1297.9	1324.3	1321.0	1297.9	1283.0	1236.6	1221.7	1167.1	1127.3	1092.6
5°	1592.5	1569.3	1592.5	1585.9	1552.8	1516.4	1440.2	1390.6	1292.9	1206.8	1129.0
7.5°	1817.7	1817.7	1827.6	1829.2	1789.5	1733.2	1638.9	1564.4	1427.0	1294.5	1170.4
10°	2061.0	2062.7	2084.2	2069.3	2016.3	1940.2	1821.0	1726.6	1561.1	1387.2	1210.1
12.5°	2320.9	2322.6	2329.2	2322.6	2259.7	2162.0	2018.0	1893.8	1703.4	1493.2	1264.7
15°	2580.8	2582.5	2590.7	2579.2	2509.6	2395.4	2231.5	2079.2	1854.1	1612.4	1331.0
17.5°	2824.2	2827.5	2834.1	2819.2	2746.4	2610.6	2443.4	2259.7	2014.7	1739.9	1405.5
20°	3042.7	3046.0	3051.0	3031.1	2958.2	2822.5	2642.1	2450.0	2178.5	1870.6	1486.6
22.5°	3262.8	3266.2	3274.4	3247.9	3166.8	3011.2	2834.1	2635.4	2352.4	2014.7	1580.9
25°	3544.3	3547.6	3554.2	3516.1	3405.2	3223.1	3036.1	2832.4	2541.1	2176.9	1696.8
27.5°	3956.5	3953.2	3953.2	3883.6	3693.3	3456.5	3239.7	3032.7	2744.7	2350.7	1824.3
30°	4466.3	4458.1	4453.1	4358.7	4087.3	3719.7	3448.3	3219.8	2940.0	2534.5	1961.7
32.5°	4923.2	4923.2	4913.3	4814.0	4525.9	4074.0	3670.1	3401.9	3128.8	2719.9	2104.0
35°	5193.1	5204.7	5199.7	5125.2	4915.0	4454.8	3969.7	3620.4	3327.4	2913.6	2274.6
37.5°	5229.5	5252.7	5257.6	5212.9	5102.0	4766.0	4302.5	3857.1	3545.9	3122.1	2440.1
40°	5082.2	5131.8	5131.8	5125.2	5085.5	4913.3	4582.2	4131.9	3771.1	3339.0	2607.3
42.5°	4855.4	4906.7	4900.1	4924.9	4915.0	4878.5	4739.5	4388.5	3996.2	3562.5	2759.6
45°	4559.0	4612.0	4598.8	4643.5	4663.3	4703.1	4722.9	4567.3	4218.0	3805.8	2930.1
47.5°	4083.9	4173.3	4193.2	4272.7	4355.4	4479.6	4573.9	4631.9	4425.0	4067.4	3115.5
50°	3382.0	3507.9	3547.6	3714.8	3941.6	4198.2	4350.5	4552.4	4570.6	4335.6	3315.8
52.5°	2421.9	2567.6	2628.8	2903.6	3370.5	3817.4	4092.2	4377.0	4626.9	4592.2	3532.7
55°	1566.0	1690.2	1749.8	2008.0	2628.8	3330.7	3787.6	4150.2	4595.5	4827.2	3781.0
57.5°	965.1	1036.3	1076.0	1297.9	1869.0	2706.6	3388.7	3941.6	4499.5	5030.8	4039.2
60°	650.6	692.0	711.8	816.1	1269.7	2022.9	2840.7	3723.1	4373.6	5168.2	4274.3
62.5°	432.1	445.3	465.2	529.7	837.6	1420.4	2181.9	3332.4	4279.3	5176.5	4448.1
65°	334.4	341.0	349.3	377.4	516.5	993.3	1534.6	2700.0	4138.6	5001.0	4502.8
67.5°	263.2	269.8	279.8	294.7	374.1	673.8	1044.6	1978.2	3850.5	4726.2	4413.4
70°	206.9	211.9	218.5	231.8	291.4	488.4	690.3	1314.4	3269.5	4464.7	4131.9
72.5°	163.9	168.9	175.5	188.7	236.7	357.6	473.5	819.4	2521.2	4145.2	3590.6
75°	129.1	132.4	137.4	150.6	190.4	278.1	321.2	490.0	1713.4	3560.8	2797.7
77.5°	64.6	79.5	91.0	104.3	139.1	192.0	213.6	271.5	723.4	1827.6	1334.3
80°	38.1	46.4	49.7	57.9	91.0	115.9	115.9	109.3	228.4	701.9	544.6
82.5°	21.5	29.8	31.5	33.1	54.6	66.2	53.0	39.7	46.4	235.1	158.9
85°	6.6	9.9	11.6	13.2	18.2	19.9	18.2	16.6	13.2	23.2	14.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.3	3.3	3.3	5.0	5.0	5.0
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°	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1072.7	1051.2	1009.8	971.7	935.3	908.8	884.0	860.8	844.3	831.0	829.4
5°	1087.6	1044.6	965.1	890.6	822.7	766.5	718.5	680.4	652.2	632.4	630.7
7.5°	1107.5	1041.3	920.4	809.5	708.5	627.4	557.9	506.6	470.1	455.2	443.7
10°	1124.0	1038.0	875.7	728.4	596.0	493.3	410.5	359.2	332.7	322.8	317.8
12.5°	1152.2	1041.3	837.6	653.9	498.3	377.4	314.5	286.4	274.8	266.5	264.9
15°	1193.6	1056.2	801.2	581.1	399.0	304.6	268.2	250.0	238.4	236.7	235.1
17.5°	1234.9	1069.4	768.1	506.6	331.1	264.9	240.0	225.1	216.9	215.2	215.2
20°	1283.0	1086.0	731.7	435.4	283.1	238.4	218.5	206.9	197.0	195.3	195.3
22.5°	1339.2	1109.1	696.9	372.5	251.6	218.5	202.0	188.7	180.4	178.8	178.8
25°	1415.4	1143.9	668.8	326.1	230.1	202.0	187.1	175.5	168.9	165.5	165.5
27.5°	1499.8	1191.9	648.9	298.0	215.2	188.7	173.8	163.9	157.3	154.0	154.0
30°	1594.2	1244.9	635.7	286.4	206.9	177.1	163.9	154.0	145.7	144.0	144.0
32.5°	1698.5	1306.1	627.4	288.0	205.3	168.9	154.0	144.0	137.4	134.1	134.1
35°	1814.3	1374.0	622.4	298.0	208.6	162.2	145.7	135.7	129.1	125.8	125.8
37.5°	1943.5	1453.5	622.4	307.9	216.9	160.6	137.4	127.5	122.5	119.2	119.2
40°	2064.3	1537.9	629.1	319.5	225.1	160.6	130.8	122.5	115.9	112.6	112.6
42.5°	2158.7	1585.9	634.0	331.1	230.1	158.9	124.2	115.9	110.9	107.6	107.6
45°	2266.3	1637.2	624.1	336.1	230.1	155.6	119.2	110.9	105.9	102.6	102.6
47.5°	2385.5	1700.1	622.4	339.4	225.1	149.0	114.2	105.9	102.6	99.3	99.3
50°	2506.3	1769.7	625.8	337.7	218.5	139.1	107.6	102.6	97.7	94.4	94.4
52.5°	2643.7	1842.5	632.4	334.4	203.6	127.5	102.6	97.7	92.7	89.4	87.7
55°	2796.0	1922.0	645.6	327.8	183.8	115.9	97.7	92.7	86.1	82.8	81.1
57.5°	2971.5	2019.6	660.5	314.5	162.2	105.9	92.7	86.1	76.1	71.2	69.5
60°	3138.7	2130.5	677.1	283.1	140.7	96.0	87.7	77.8	67.9	64.6	62.9
62.5°	3296.0	2239.8	685.3	226.8	119.2	87.7	82.8	71.2	61.3	57.9	56.3
65°	3396.9	2359.0	667.1	154.0	97.7	81.1	76.1	66.2	56.3	51.3	51.3
67.5°	3403.6	2415.3	604.2	101.0	79.5	72.8	69.5	59.6	49.7	46.4	44.7
70°	3236.4	2330.8	461.9	79.5	66.2	62.9	62.9	53.0	43.0	39.7	38.1
72.5°	2852.3	2064.3	294.7	64.6	56.3	53.0	53.0	44.7	38.1	33.1	31.5
75°	2251.4	1592.5	157.3	53.0	46.4	44.7	41.4	36.4	31.5	28.1	26.5
77.5°	1034.6	701.9	72.8	38.1	34.8	34.8	31.5	26.5	24.8	21.5	21.5
80°	408.9	238.4	36.4	24.8	23.2	23.2	23.2	18.2	18.2	14.9	13.2
82.5°	112.6	49.7	18.2	14.9	14.9	14.9	13.2	11.6	11.6	9.9	9.9
85°	11.6	8.3	8.3	8.3	8.3	6.6	6.6	5.0	3.3	3.3	3.3
87.5°	5.0	5.0	5.0	5.0	5.0	3.3	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)