

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: P1210744

Luminaire Tested: **ARCH3-60-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

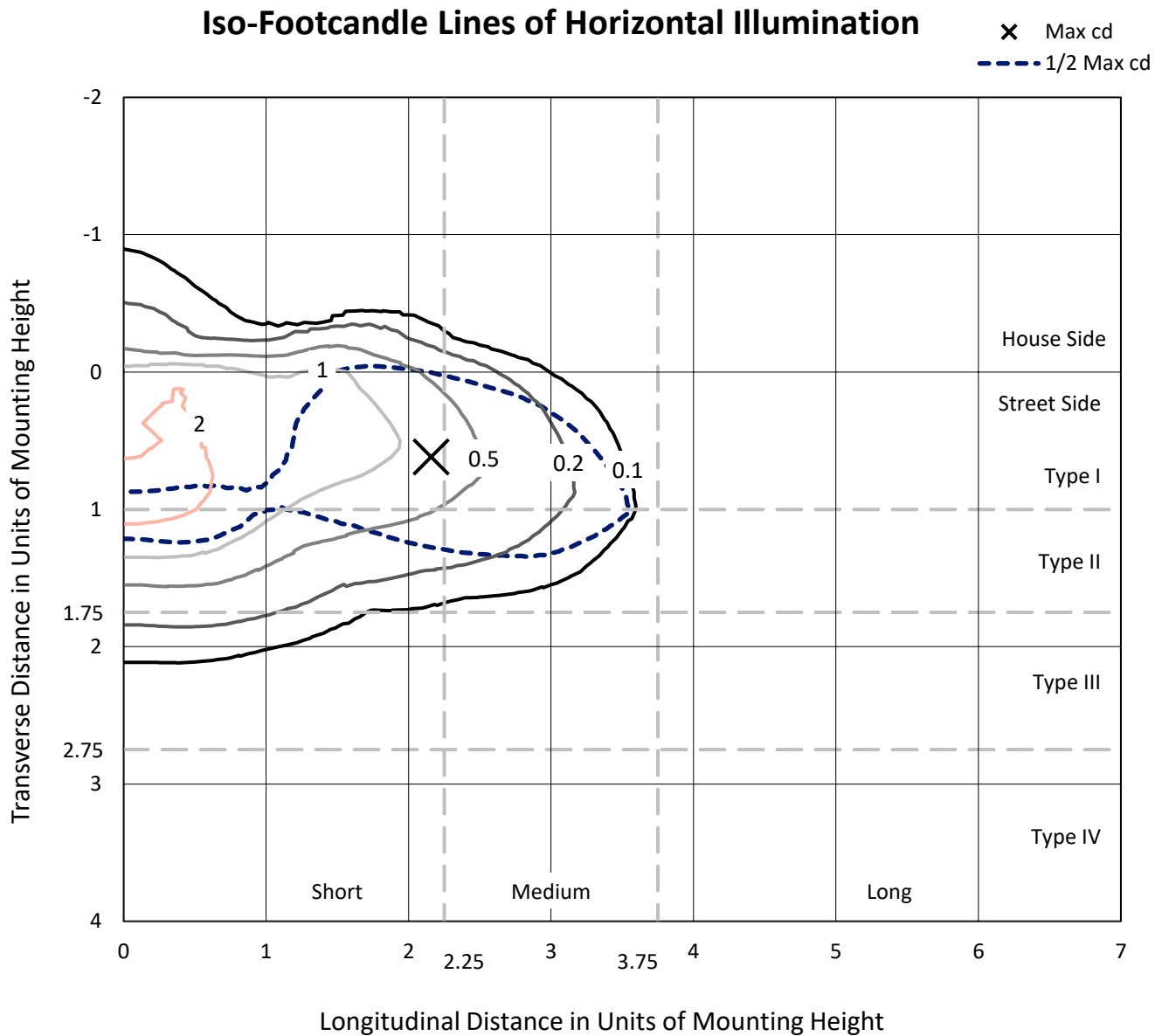
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6991 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.2
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

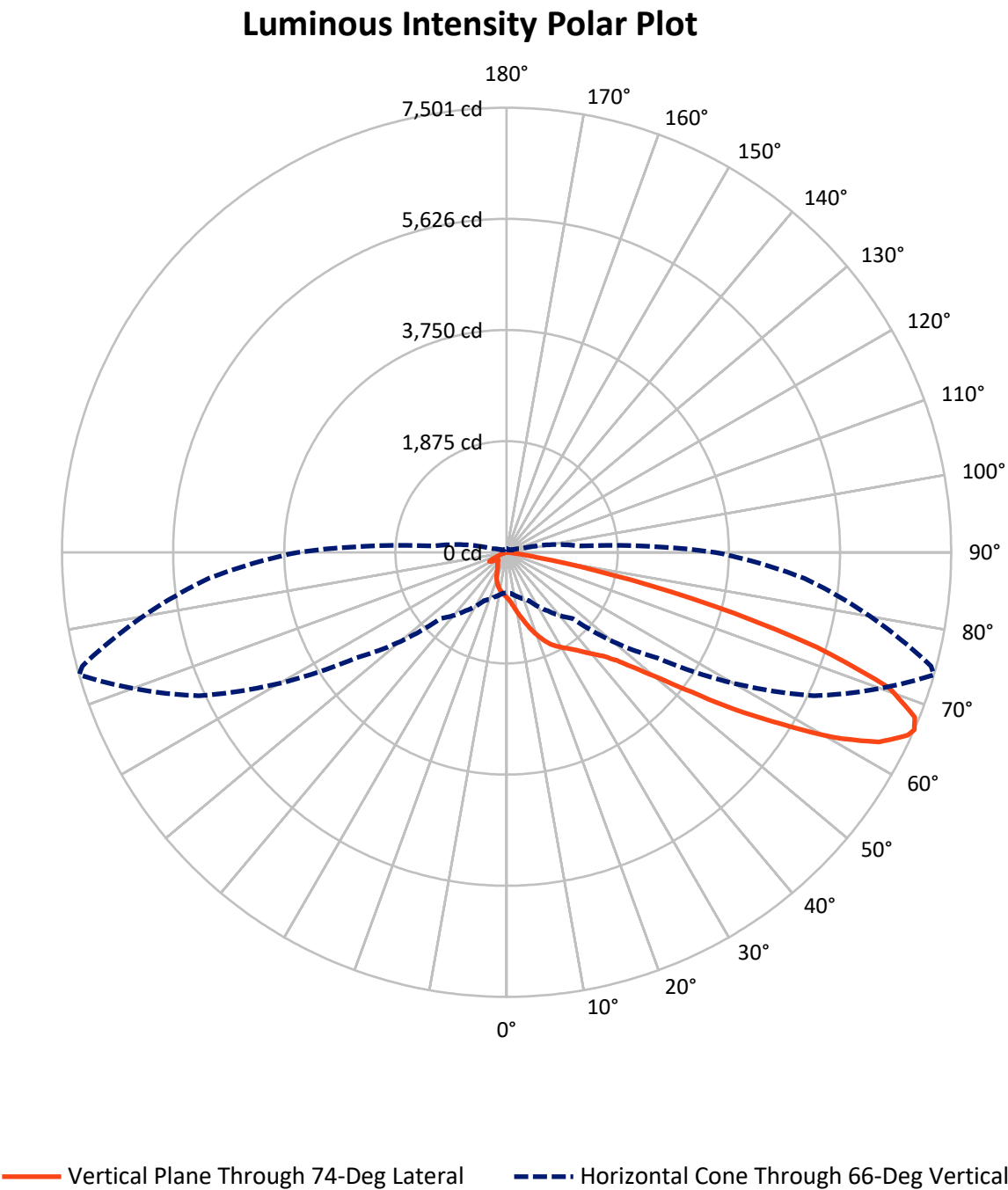


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Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	685.3	0.0	685.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	6305.7	0.0	6305.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	6991.0	0.0	6991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.1
10°-20°	238.8	3.4
20°-30°	455.7	6.5
30°-40°	798.8	11.4
40°-50°	1369.7	19.6
50°-60°	1781.4	25.5
60°-70°	1612.6	23.1
70°-80°	622.2	8.9
80°-90°	37.4	0.5
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°	6991.0	100.0
0°-180°	6991.0	100.0

Coefficient of Utilization



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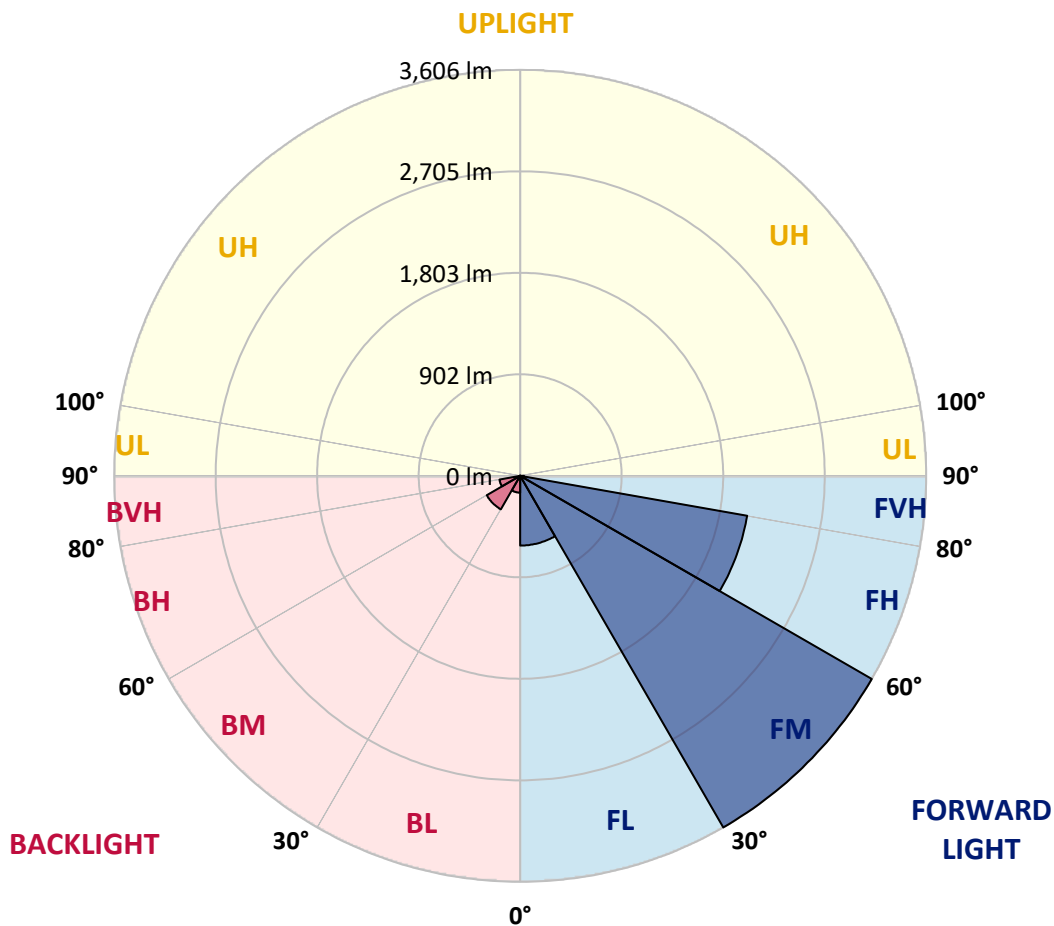
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	619.5	8.9			
FM	(30°-60°)	3606.3	51.6			
FH	(60°-80°)	2047.4	29.3			G2/5000
FVH	(80°-90°)	32.4	0.5			G1/100
BL	(0°-30°)	149.5	2.1	B1/500		
BM	(30°-60°)	343.5	4.9	B1/1000		
BH	(60°-80°)	187.4	2.7	B1/500		G1/500
BVH	(80°-90°)	5.0	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	916.3	908.7	894.9	893.7	882.4	868.6	844.7	819.6	802.0	799.5	778.2
5°	1097.0	1093.2	1079.4	1070.6	1049.3	1016.7	961.4	906.2	859.8	854.8	807.1
7.5°	1144.7	1147.2	1149.7	1158.5	1151.0	1135.9	1094.5	1016.7	943.9	932.6	849.7
10°	1152.2	1149.7	1149.7	1161.0	1182.3	1203.7	1198.7	1132.1	1038.0	1024.2	908.7
12.5°	1233.8	1237.6	1228.8	1223.8	1220.0	1231.3	1269.0	1240.1	1137.2	1125.9	980.3
15°	1339.2	1338.0	1325.4	1325.4	1314.1	1295.3	1319.2	1340.5	1256.4	1242.6	1061.9
17.5°	1415.8	1420.8	1419.6	1427.1	1423.3	1398.2	1385.7	1429.6	1379.4	1361.8	1154.7
20°	1477.3	1491.1	1496.1	1520.0	1531.3	1513.7	1481.1	1508.7	1497.4	1481.1	1248.9
22.5°	1542.6	1553.9	1562.7	1604.1	1635.5	1631.7	1590.3	1584.0	1611.6	1596.5	1341.7
25°	1607.8	1612.9	1639.2	1689.4	1739.6	1752.2	1709.5	1660.6	1714.5	1700.7	1424.6
27.5°	1679.4	1681.9	1713.3	1774.8	1845.1	1871.4	1837.5	1747.2	1793.6	1793.6	1499.9
30°	1809.9	1835.0	1847.6	1902.8	1964.3	2000.7	1960.5	1838.8	1863.9	1875.2	1579.0
32.5°	2091.1	2094.8	2091.1	2114.9	2127.5	2148.8	2102.4	1941.7	1935.4	1948.0	1656.8
35°	2520.3	2505.3	2465.1	2430.0	2357.2	2317.0	2256.8	2073.5	2023.3	2040.9	1733.4
37.5°	3041.2	3019.9	2928.3	2820.3	2664.7	2504.0	2428.7	2234.2	2135.0	2157.6	1816.2
40°	3538.3	3524.4	3415.2	3282.2	3016.1	2741.2	2581.8	2369.7	2259.3	2268.0	1900.3
42.5°	3947.4	3944.9	3853.3	3714.0	3372.6	2997.3	2762.6	2502.8	2389.8	2403.6	1988.1
45°	4257.5	4233.6	4165.8	4065.4	3717.7	3263.4	2981.0	2704.8	2599.4	2615.7	2119.9
47.5°	4257.5	4261.2	4305.1	4295.1	3958.7	3513.2	3219.4	2959.6	2909.4	2924.5	2337.1
50°	3911.0	3946.2	4142.0	4306.4	4084.2	3707.7	3476.8	3278.4	3329.9	3352.5	2716.1
52.5°	3225.7	3284.7	3624.9	4000.1	3991.4	3805.6	3742.8	3683.9	3914.8	3955.0	3275.9
55°	2451.3	2490.2	2933.3	3426.5	3587.2	3725.3	3975.0	4198.5	4689.2	4680.4	3844.5
57.5°	1831.3	1867.7	2249.2	2796.5	3008.6	3377.6	4094.3	4787.1	5457.4	5491.3	4377.9
60°	1346.8	1374.4	1699.5	2148.8	2455.1	2845.4	4046.6	5367.0	6342.2	6303.3	4848.6
62.5°	996.6	1011.6	1246.4	1538.8	1945.5	2318.3	3746.6	5763.6	7048.9	6969.8	5110.9
65°	770.7	775.7	897.4	1053.1	1414.5	1802.4	3299.8	5823.9	7439.2	7355.1	5105.9
66°	686.6	690.3	779.4	899.9	1203.7	1577.7	3104.0	5727.2	7500.7	7411.6	5043.2
67.5°	576.1	573.6	626.3	705.4	903.7	1217.5	2756.3	5444.8	7427.9	7382.8	4842.3
70°	426.7	428.0	454.4	473.2	528.4	674.0	1990.7	4723.1	6845.6	6843.0	4291.3
72.5°	316.3	320.1	340.1	343.9	330.1	365.2	1147.2	3756.6	5476.2	5477.5	3208.2
75°	237.2	243.5	249.8	252.3	239.7	230.9	518.4	2527.9	3602.3	3575.9	1816.2
77.5°	180.7	183.3	188.3	184.5	182.0	159.4	215.9	1232.6	1778.5	1620.4	588.7
80°	131.8	131.8	136.8	131.8	130.5	114.2	118.0	395.4	522.1	434.3	126.8
82.5°	82.8	81.6	85.3	84.1	81.6	72.8	69.0	110.5	120.5	107.9	61.5
85°	46.4	45.2	43.9	42.7	38.9	32.6	37.7	41.4	55.2	56.5	43.9
87.5°	16.3	16.3	15.1	13.8	11.3	11.3	13.8	13.8	20.1	20.1	22.6
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°	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1	763.1
2.5°	768.1	754.3	734.3	707.9	689.1	670.2	650.2	638.9	622.6	618.8	623.8
5°	782.0	756.9	706.6	651.4	603.7	561.0	520.9	497.0	473.2	464.4	468.2
7.5°	810.8	768.1	682.8	593.7	514.6	450.6	402.9	375.3	354.0	345.2	347.7
10°	853.5	788.2	660.2	528.4	426.7	359.0	318.8	301.2	288.7	283.7	284.9
12.5°	905.0	817.1	631.3	463.1	351.4	292.4	273.6	269.9	267.3	264.8	266.1
15°	962.7	842.2	597.4	399.1	292.4	259.8	253.5	252.3	251.0	251.0	251.0
17.5°	1022.9	864.8	559.8	338.9	254.8	239.7	236.0	236.0	236.0	237.2	237.2
20°	1079.4	882.4	515.9	284.9	233.5	220.9	218.4	218.4	219.7	220.9	220.9
22.5°	1134.7	889.9	464.4	247.3	215.9	204.6	200.8	200.8	200.8	202.1	202.1
25°	1182.3	889.9	412.9	223.4	200.8	189.5	184.5	183.3	184.5	184.5	184.5
27.5°	1222.5	886.1	362.7	207.1	185.8	174.5	169.4	168.2	170.7	172.0	172.0
30°	1265.2	881.1	322.6	192.0	173.2	161.9	156.9	156.9	160.7	165.7	165.7
32.5°	1306.6	884.9	291.2	179.5	160.7	151.9	146.9	148.1	155.6	163.2	163.2
35°	1350.5	892.4	272.4	170.7	151.9	143.1	139.3	143.1	150.6	158.1	158.1
37.5°	1394.5	901.2	261.1	163.2	144.3	135.6	133.0	138.1	146.9	154.4	155.6
40°	1440.9	908.7	248.5	155.6	139.3	129.3	128.0	133.0	144.3	151.9	153.1
42.5°	1498.6	923.8	233.5	149.4	134.3	121.7	123.0	126.8	138.1	149.4	150.6
45°	1611.6	971.5	218.4	143.1	128.0	118.0	115.5	118.0	130.5	143.1	145.6
47.5°	1823.7	1079.4	202.1	136.8	121.7	115.5	105.4	107.9	119.2	133.0	134.3
50°	2230.4	1309.1	193.3	130.5	116.7	106.7	95.4	95.4	104.2	116.7	116.7
52.5°	2864.2	1720.8	198.3	125.5	110.5	97.9	86.6	85.3	90.4	99.2	99.2
55°	3548.3	2172.7	217.1	120.5	102.9	92.9	80.3	74.1	77.8	82.8	82.8
57.5°	4090.5	2399.8	268.6	118.0	94.1	89.1	72.8	64.0	67.8	72.8	72.8
60°	4329.0	2266.8	326.3	120.5	87.9	82.8	65.3	56.5	62.8	67.8	69.0
62.5°	4135.7	1866.4	350.2	114.2	79.1	74.1	64.0	52.7	60.2	64.0	65.3
65°	3717.7	1418.3	273.6	99.2	72.8	64.0	57.7	50.2	56.5	60.2	60.2
66°	3519.4	1236.3	233.5	91.6	70.3	60.2	55.2	50.2	55.2	57.7	59.0
67.5°	3211.9	975.2	173.2	80.3	65.3	55.2	51.5	47.7	52.7	55.2	55.2
70°	2511.5	581.1	104.2	62.8	56.5	49.0	46.4	43.9	47.7	49.0	49.0
72.5°	1572.7	276.1	66.5	46.4	47.7	46.4	38.9	41.4	42.7	43.9	43.9
75°	761.9	109.2	45.2	33.9	38.9	43.9	31.4	36.4	37.7	40.2	38.9
77.5°	212.1	52.7	28.9	25.1	33.9	33.9	23.8	28.9	33.9	42.7	38.9
80°	61.5	33.9	18.8	18.8	23.8	23.8	16.3	20.1	22.6	25.1	26.4
82.5°	42.7	22.6	12.6	13.8	13.8	15.1	10.0	10.0	12.6	12.6	13.8
85°	33.9	10.0	7.5	8.8	6.3	7.5	5.0	5.0	6.3	5.0	5.0
87.5°	13.8	5.0	5.0	5.0	3.8	3.8	2.5	1.3	1.3	1.3	1.3
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)