

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: P1210696

Luminaire Tested: **ARCH3-40-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210696
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: ARCH3-40-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 345mA 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: 5310 lumens
Efficiency: N/A
Efficacy: 121.8 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): 43.6
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



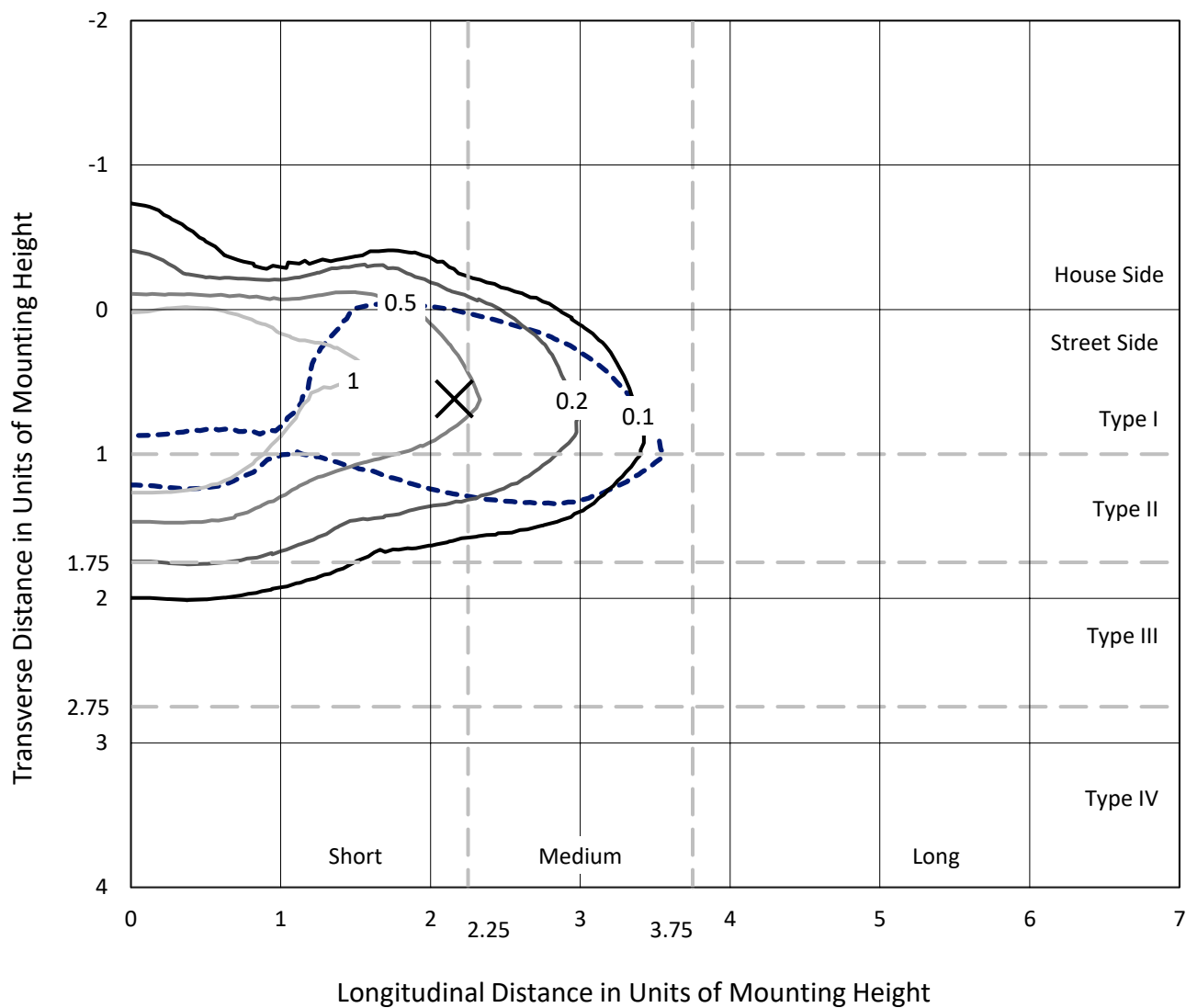
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Iso-Footcandle Lines of Horizontal Illumination

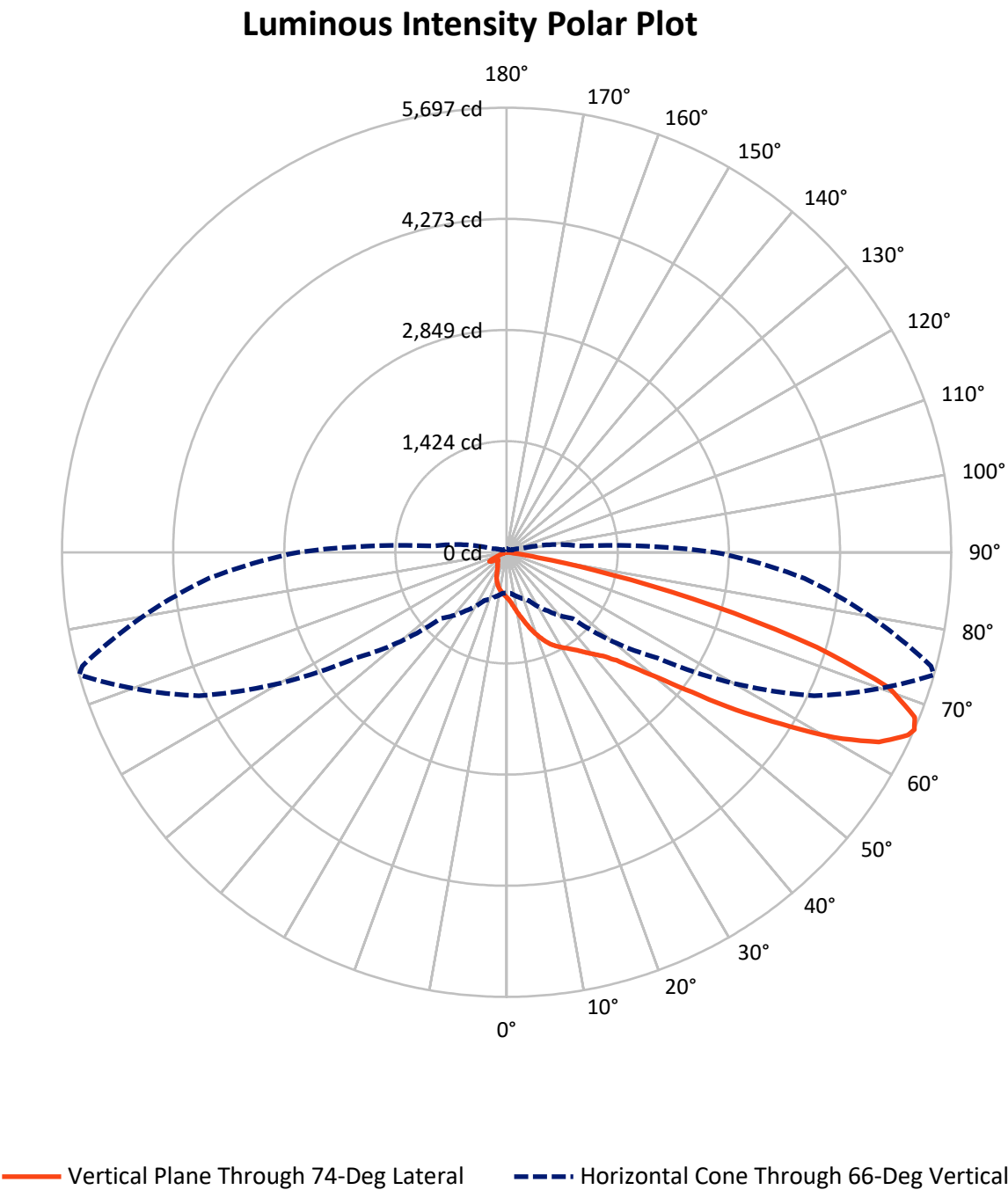
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	520.5	0.0	520.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4789.4	0.0	4789.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	5310.0	0.0	5310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.1
10°-20°	181.4	3.4
20°-30°	346.1	6.5
30°-40°	606.7	11.4
40°-50°	1040.3	19.6
50°-60°	1353.0	25.5
60°-70°	1224.8	23.1
70°-80°	472.6	8.9
80°-90°	28.4	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°	5310.0	100.0
0°-180°	5310.0	100.0

Coefficient of Utilization



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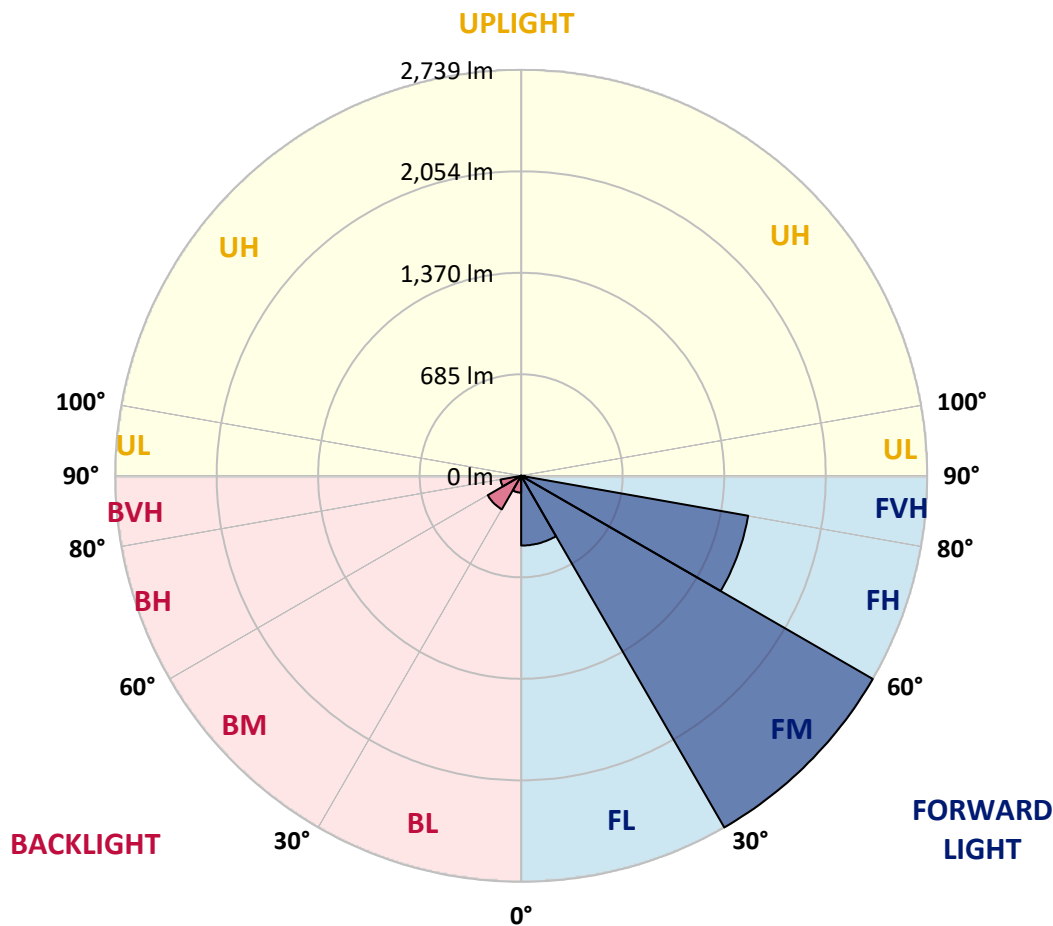
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	470.5	8.9			
FM	(30°-60°)	2739.2	51.6			
FH	(60°-80°)	1555.1	29.3			G1/1800
FVH	(80°-90°)	24.6	0.5			G1/100
BL	(0°-30°)	113.5	2.1	B1/500		
BM	(30°-60°)	260.9	4.9	B1/1000		
BH	(60°-80°)	142.3	2.7	B1/500		G1/500
BVH	(80°-90°)	3.8	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°	65°	74°	75°	85°
0°	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6
2.5°	695.9	690.2	679.7	678.8	670.2	659.7	641.6	622.5	609.2	607.3	591.1
5°	833.2	830.4	819.9	813.2	797.0	772.2	730.3	688.3	653.0	649.2	613.0
7.5°	869.4	871.4	873.3	879.9	874.2	862.8	831.3	772.2	716.9	708.3	645.4
10°	875.2	873.3	873.3	881.8	898.0	914.3	910.4	859.9	788.4	777.9	690.2
12.5°	937.1	940.0	933.3	929.5	926.6	935.2	963.8	941.9	863.7	855.1	744.6
15°	1017.2	1016.3	1006.7	1006.7	998.1	983.8	1002.0	1018.2	954.3	943.8	806.5
17.5°	1075.4	1079.2	1078.2	1084.0	1081.1	1062.0	1052.5	1085.9	1047.7	1034.4	877.1
20°	1122.1	1132.6	1136.4	1154.5	1163.1	1149.7	1124.9	1145.9	1137.3	1124.9	948.6
22.5°	1171.7	1180.2	1186.9	1218.4	1242.2	1239.3	1207.9	1203.1	1224.1	1212.7	1019.1
25°	1221.2	1225.0	1245.1	1283.2	1321.3	1330.9	1298.5	1261.3	1302.3	1291.8	1082.0
27.5°	1275.6	1277.5	1301.3	1348.0	1401.4	1421.4	1395.7	1327.1	1362.3	1362.3	1139.2
30°	1374.7	1393.8	1403.3	1445.3	1492.0	1519.6	1489.1	1396.6	1415.7	1424.3	1199.3
32.5°	1588.3	1591.1	1588.3	1606.4	1615.9	1632.1	1596.8	1474.8	1470.1	1479.6	1258.4
35°	1914.3	1902.9	1872.4	1845.7	1790.4	1759.9	1714.1	1574.9	1536.8	1550.1	1316.6
37.5°	2309.9	2293.7	2224.1	2142.2	2023.9	1901.9	1844.7	1697.0	1621.6	1638.8	1379.5
40°	2687.5	2677.0	2594.0	2493.0	2290.9	2082.1	1961.0	1799.9	1716.0	1722.7	1443.4
42.5°	2998.3	2996.4	2926.8	2820.9	2561.6	2276.6	2098.3	1901.0	1815.2	1825.7	1510.1
45°	3233.7	3215.6	3164.1	3087.9	2823.8	2478.7	2264.2	2054.5	1974.4	1986.8	1610.2
47.5°	3233.7	3236.6	3270.0	3262.3	3006.8	2668.4	2445.3	2248.0	2209.8	2221.3	1775.1
50°	2970.6	2997.3	3146.0	3270.9	3102.2	2816.2	2640.8	2490.1	2529.2	2546.4	2063.0
52.5°	2450.1	2494.9	2753.3	3038.3	3031.6	2890.5	2842.9	2798.1	2973.5	3004.0	2488.2
55°	1861.9	1891.4	2228.0	2602.6	2724.7	2829.5	3019.2	3188.9	3561.7	3555.0	2920.1
57.5°	1390.9	1418.6	1708.4	2124.0	2285.2	2565.4	3109.8	3636.0	4145.1	4170.9	3325.3
60°	1022.9	1043.9	1290.8	1632.1	1864.7	2161.2	3073.6	4076.5	4817.2	4787.7	3682.8
62.5°	757.0	768.4	946.7	1168.8	1477.7	1760.8	2845.7	4377.7	5354.0	5293.9	3882.0
65°	585.4	589.2	681.6	799.9	1074.4	1369.0	2506.3	4423.5	5650.5	5586.6	3878.2
66°	521.5	524.3	592.0	683.5	914.3	1198.4	2357.6	4350.1	5697.2	5629.5	3830.5
67.5°	437.6	435.7	475.7	535.8	686.4	924.7	2093.5	4135.6	5641.9	5607.6	3678.0
70°	324.1	325.1	345.1	359.4	401.4	511.9	1512.0	3587.4	5199.5	5197.6	3259.5
72.5°	240.2	243.1	258.4	261.2	250.7	277.4	871.4	2853.4	4159.4	4160.4	2436.7
75°	180.2	184.9	189.7	191.6	182.1	175.4	393.7	1920.0	2736.1	2716.1	1379.5
77.5°	137.3	139.2	143.0	140.1	138.2	121.1	164.0	936.2	1350.9	1230.8	447.1
80°	100.1	100.1	103.9	100.1	99.1	86.8	89.6	300.3	396.6	329.9	96.3
82.5°	62.9	62.0	64.8	63.9	62.0	55.3	52.4	83.9	91.5	82.0	46.7
85°	35.3	34.3	33.4	32.4	29.6	24.8	28.6	31.5	41.9	42.9	33.4
87.5°	12.4	12.4	11.4	10.5	8.6	8.6	10.5	10.5	15.3	15.3	17.2
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°	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6	579.6
2.5°	583.4	573.0	557.7	537.7	523.4	509.1	493.8	485.3	472.9	470.0	473.8
5°	593.9	574.9	536.7	494.8	458.6	426.1	395.6	377.5	359.4	352.7	355.6
7.5°	615.9	583.4	518.6	450.9	390.9	342.3	306.0	285.0	268.8	262.2	264.1
10°	648.3	598.7	501.5	401.4	324.1	272.7	242.1	228.8	219.3	215.5	216.4
12.5°	687.4	620.6	479.5	351.8	266.9	222.1	207.8	205.0	203.1	201.2	202.1
15°	731.2	639.7	453.8	303.2	222.1	197.3	192.6	191.6	190.7	190.7	190.7
17.5°	777.0	656.9	425.2	257.4	193.5	182.1	179.2	179.2	179.2	180.2	180.2
20°	819.9	670.2	391.8	216.4	177.3	167.8	165.9	165.9	166.8	167.8	167.8
22.5°	861.8	675.9	352.7	187.8	164.0	155.4	152.5	152.5	152.5	153.5	153.5
25°	898.0	675.9	313.6	169.7	152.5	144.0	140.1	139.2	140.1	140.1	140.1
27.5°	928.6	673.1	275.5	157.3	141.1	132.5	128.7	127.7	129.7	130.6	130.6
30°	961.0	669.2	245.0	145.9	131.6	123.0	119.2	119.2	122.0	125.8	125.8
32.5°	992.4	672.1	221.2	136.3	122.0	115.4	111.5	112.5	118.2	123.9	123.9
35°	1025.8	677.8	206.9	129.7	115.4	108.7	105.8	108.7	114.4	120.1	120.1
37.5°	1059.2	684.5	198.3	123.9	109.6	103.0	101.1	104.9	111.5	117.3	118.2
40°	1094.4	690.2	188.8	118.2	105.8	98.2	97.2	101.1	109.6	115.4	116.3
42.5°	1138.3	701.7	177.3	113.4	102.0	92.5	93.4	96.3	104.9	113.4	114.4
45°	1224.1	737.9	165.9	108.7	97.2	89.6	87.7	89.6	99.1	108.7	110.6
47.5°	1385.2	819.9	153.5	103.9	92.5	87.7	80.1	82.0	90.6	101.1	102.0
50°	1694.1	994.3	146.8	99.1	88.7	81.0	72.5	72.5	79.1	88.7	88.7
52.5°	2175.5	1307.0	150.6	95.3	83.9	74.4	65.8	64.8	68.6	75.3	75.3
55°	2695.1	1650.2	164.9	91.5	78.2	70.5	61.0	56.2	59.1	62.9	62.9
57.5°	3106.9	1822.8	204.0	89.6	71.5	67.7	55.3	48.6	51.5	55.3	55.3
60°	3288.1	1721.7	247.9	91.5	66.7	62.9	49.6	42.9	47.7	51.5	52.4
62.5°	3141.3	1417.6	266.0	86.8	60.1	56.2	48.6	40.0	45.8	48.6	49.6
65°	2823.8	1077.3	207.8	75.3	55.3	48.6	43.9	38.1	42.9	45.8	45.8
66°	2673.2	939.0	177.3	69.6	53.4	45.8	41.9	38.1	41.9	43.9	44.8
67.5°	2439.6	740.7	131.6	61.0	49.6	41.9	39.1	36.2	40.0	41.9	41.9
70°	1907.6	441.4	79.1	47.7	42.9	37.2	35.3	33.4	36.2	37.2	37.2
72.5°	1194.5	209.7	50.5	35.3	36.2	35.3	29.6	31.5	32.4	33.4	33.4
75°	578.7	82.9	34.3	25.7	29.6	33.4	23.8	27.6	28.6	30.5	29.6
77.5°	161.1	40.0	21.9	19.1	25.7	25.7	18.1	21.9	25.7	32.4	29.6
80°	46.7	25.7	14.3	14.3	18.1	18.1	12.4	15.3	17.2	19.1	20.0
82.5°	32.4	17.2	9.5	10.5	10.5	11.4	7.6	7.6	9.5	9.5	10.5
85°	25.7	7.6	5.7	6.7	4.8	5.7	3.8	3.8	4.8	3.8	3.8
87.5°	10.5	3.8	3.8	3.8	2.9	2.9	1.9	1.0	1.0	1.0	1.0
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)