

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: P1210012

Luminaire Tested: **ARCH1-50-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210012
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: ARCH1-50-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

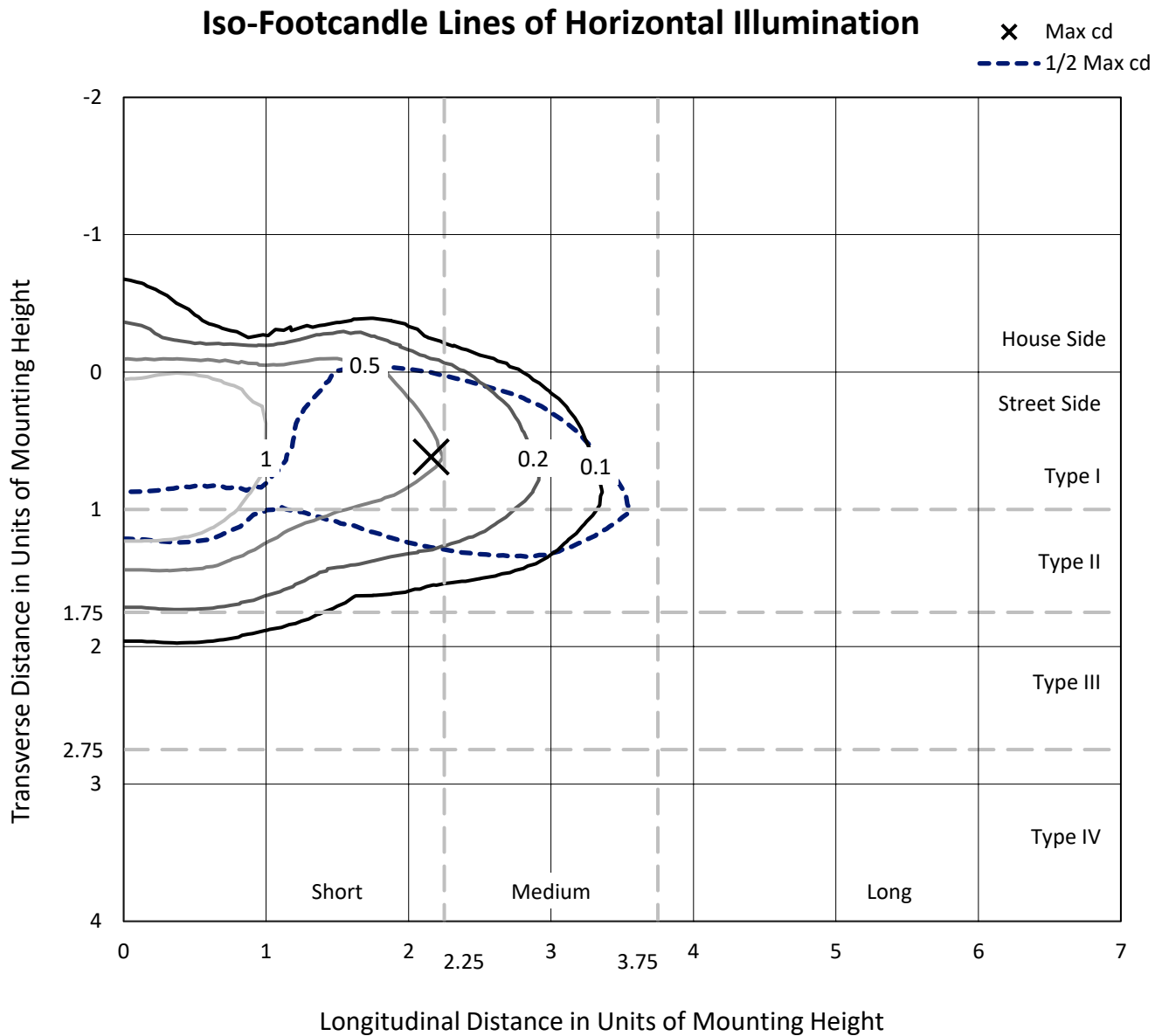
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4773 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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

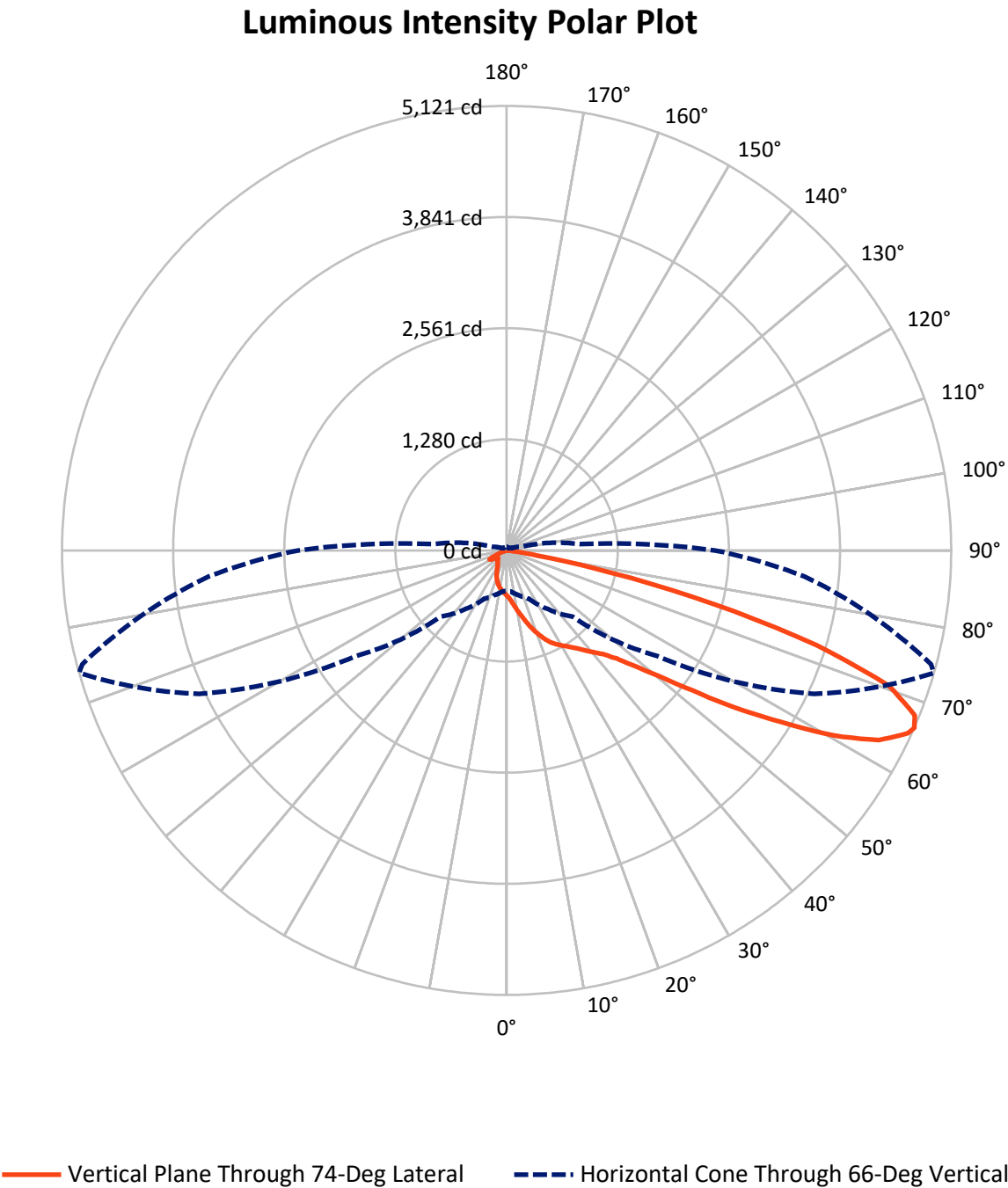


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Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.9	0.0	467.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4305.1	0.0	4305.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	4773.0	0.0	4773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.9	1.1
10°-20°	163.0	3.4
20°-30°	311.1	6.5
30°-40°	545.3	11.4
40°-50°	935.1	19.6
50°-60°	1216.2	25.5
60°-70°	1101.0	23.1
70°-80°	424.8	8.9
80°-90°	25.6	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°	4773.0	100.0
0°-180°	4773.0	100.0

Coefficient of Utilization



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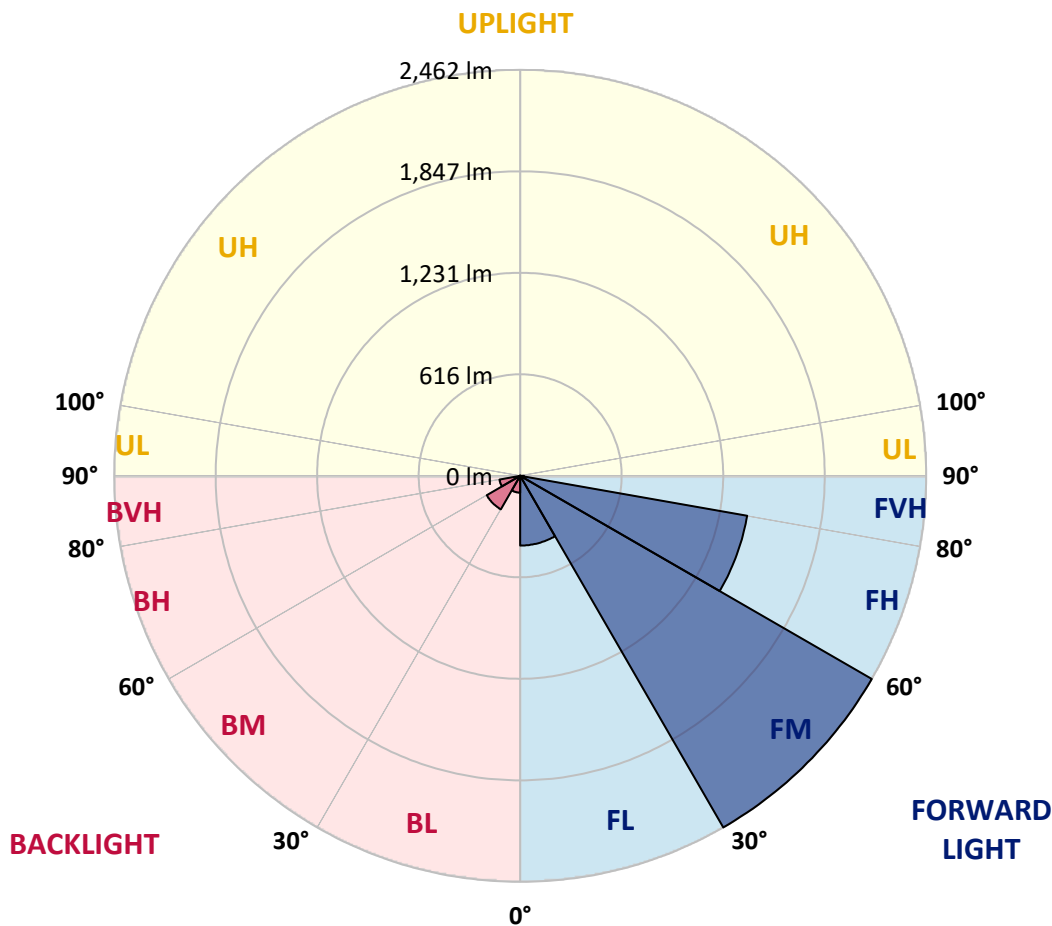
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	423.0	8.9			
FM	(30°-60°)	2462.2	51.6			
FH	(60°-80°)	1397.8	29.3			G1/1800
FVH	(80°-90°)	22.1	0.5			G1/100
BL	(0°-30°)	102.1	2.1	B0/110		
BM	(30°-60°)	234.5	4.9	B1/1000		
BH	(60°-80°)	127.9	2.7	B1/500		G1/500
BVH	(80°-90°)	3.4	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°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
2.5°	625.6	620.4	611.0	610.1	602.4	593.0	576.7	559.6	547.6	545.9	531.3
5°	749.0	746.4	737.0	731.0	716.4	694.1	656.4	618.7	587.0	583.6	551.0
7.5°	781.5	783.2	784.9	790.9	785.8	775.5	747.2	694.1	644.4	636.7	580.1
10°	786.7	784.9	784.9	792.7	807.2	821.8	818.4	773.0	708.7	699.3	620.4
12.5°	842.4	844.9	838.9	835.5	832.9	840.6	866.4	846.6	776.4	768.7	669.3
15°	914.3	913.5	904.9	904.9	897.2	884.4	900.6	915.2	857.8	848.4	725.0
17.5°	966.6	970.0	969.2	974.3	971.8	954.6	946.1	976.0	941.8	929.8	788.4
20°	1008.6	1018.0	1021.5	1037.7	1045.5	1033.5	1011.2	1030.0	1022.3	1011.2	852.6
22.5°	1053.2	1060.9	1066.9	1095.2	1116.6	1114.0	1085.7	1081.4	1100.3	1090.0	916.1
25°	1097.7	1101.2	1119.2	1153.4	1187.7	1196.3	1167.1	1133.7	1170.6	1161.1	972.6
27.5°	1146.6	1148.3	1169.7	1211.7	1259.7	1277.7	1254.5	1192.8	1224.6	1224.6	1024.0
30°	1235.7	1252.8	1261.4	1299.1	1341.1	1365.9	1338.5	1255.4	1272.5	1280.3	1078.0
32.5°	1427.6	1430.2	1427.6	1443.9	1452.5	1467.1	1435.4	1325.7	1321.4	1330.0	1131.1
35°	1720.7	1710.4	1683.0	1659.0	1609.3	1581.9	1540.8	1415.7	1381.4	1393.4	1183.4
37.5°	2076.3	2061.8	1999.2	1925.5	1819.3	1709.6	1658.2	1525.3	1457.6	1473.1	1240.0
40°	2415.7	2406.3	2331.7	2240.9	2059.2	1871.5	1762.7	1617.9	1542.5	1548.5	1297.4
42.5°	2695.0	2693.3	2630.8	2535.7	2302.6	2046.4	1886.1	1708.7	1631.6	1641.0	1357.4
45°	2906.7	2890.4	2844.2	2775.6	2538.2	2228.0	2035.2	1846.7	1774.7	1785.8	1447.4
47.5°	2906.7	2909.3	2939.3	2932.4	2702.8	2398.6	2198.0	2020.6	1986.4	1996.6	1595.6
50°	2670.2	2694.2	2827.9	2940.1	2788.5	2531.4	2373.7	2238.3	2273.4	2288.9	1854.4
52.5°	2202.3	2242.6	2474.8	2731.0	2725.0	2598.2	2555.4	2515.1	2672.8	2700.2	2236.6
55°	1673.6	1700.2	2002.6	2339.4	2449.1	2543.4	2713.9	2866.4	3201.5	3195.5	2624.8
57.5°	1250.3	1275.1	1535.6	1909.2	2054.1	2306.0	2795.3	3268.3	3725.9	3749.1	2989.0
60°	919.5	938.3	1160.3	1467.1	1676.2	1942.7	2762.7	3664.2	4330.1	4303.5	3310.3
62.5°	680.4	690.7	850.9	1050.6	1328.2	1582.8	2557.9	3935.0	4812.5	4758.5	3489.4
65°	526.2	529.6	612.7	719.0	965.8	1230.6	2252.9	3976.2	5079.0	5021.6	3486.0
66°	468.7	471.3	532.2	614.4	821.8	1077.2	2119.2	3910.2	5121.0	5060.2	3443.1
67.5°	393.3	391.6	427.6	481.6	617.0	831.2	1881.8	3717.4	5071.3	5040.5	3306.0
70°	291.4	292.2	310.2	323.1	360.8	460.2	1359.1	3224.6	4673.7	4672.0	2929.8
72.5°	215.9	218.5	232.2	234.8	225.4	249.4	783.2	2564.8	3738.8	3739.6	2190.3
75°	162.0	166.2	170.5	172.2	163.7	157.7	353.9	1725.9	2459.4	2441.4	1240.0
77.5°	123.4	125.1	128.5	126.0	124.3	108.8	147.4	841.5	1214.3	1106.3	401.9
80°	90.0	90.0	93.4	90.0	89.1	78.0	80.6	269.9	356.5	296.5	86.6
82.5°	56.6	55.7	58.3	57.4	55.7	49.7	47.1	75.4	82.3	73.7	42.0
85°	31.7	30.8	30.0	29.1	26.6	22.3	25.7	28.3	37.7	38.6	30.0
87.5°	11.1	11.1	10.3	9.4	7.7	7.7	9.4	9.4	13.7	13.7	15.4
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°	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0	521.0
2.5°	524.4	515.0	501.3	483.3	470.5	457.6	443.9	436.2	425.0	422.5	425.9
5°	533.9	516.7	482.5	444.7	412.2	383.0	355.6	339.3	323.1	317.1	319.6
7.5°	553.6	524.4	466.2	405.3	351.3	307.6	275.1	256.2	241.7	235.7	237.4
10°	582.7	538.2	450.7	360.8	291.4	245.1	217.7	205.7	197.1	193.7	194.5
12.5°	617.8	557.9	431.0	316.2	239.9	199.7	186.8	184.2	182.5	180.8	181.7
15°	657.3	575.0	407.9	272.5	199.7	177.4	173.1	172.2	171.4	171.4	171.4
17.5°	698.4	590.4	382.2	231.4	174.0	163.7	161.1	161.1	161.1	162.0	162.0
20°	737.0	602.4	352.2	194.5	159.4	150.8	149.1	149.1	150.0	150.8	150.8
22.5°	774.7	607.6	317.1	168.8	147.4	139.7	137.1	137.1	137.1	138.0	138.0
25°	807.2	607.6	281.9	152.5	137.1	129.4	126.0	125.1	126.0	126.0	126.0
27.5°	834.7	605.0	247.7	141.4	126.8	119.1	115.7	114.8	116.5	117.4	117.4
30°	863.8	601.6	220.2	131.1	118.3	110.5	107.1	107.1	109.7	113.1	113.1
32.5°	892.1	604.1	198.8	122.5	109.7	103.7	100.3	101.1	106.3	111.4	111.4
35°	922.1	609.3	186.0	116.5	103.7	97.7	95.1	97.7	102.8	108.0	108.0
37.5°	952.1	615.3	178.2	111.4	98.5	92.5	90.8	94.3	100.3	105.4	106.3
40°	983.8	620.4	169.7	106.3	95.1	88.3	87.4	90.8	98.5	103.7	104.5
42.5°	1023.2	630.7	159.4	102.0	91.7	83.1	84.0	86.6	94.3	102.0	102.8
45°	1100.3	663.3	149.1	97.7	87.4	80.6	78.8	80.6	89.1	97.7	99.4
47.5°	1245.1	737.0	138.0	93.4	83.1	78.8	72.0	73.7	81.4	90.8	91.7
50°	1522.8	893.8	132.0	89.1	79.7	72.8	65.1	65.1	71.1	79.7	79.7
52.5°	1955.5	1174.9	135.4	85.7	75.4	66.8	59.1	58.3	61.7	67.7	67.7
55°	2422.5	1483.3	148.2	82.3	70.3	63.4	54.8	50.6	53.1	56.6	56.6
57.5°	2792.7	1638.5	183.4	80.6	64.3	60.8	49.7	43.7	46.3	49.7	49.7
60°	2955.6	1547.6	222.8	82.3	60.0	56.6	44.6	38.6	42.8	46.3	47.1
62.5°	2823.6	1274.3	239.1	78.0	54.0	50.6	43.7	36.0	41.1	43.7	44.6
65°	2538.2	968.3	186.8	67.7	49.7	43.7	39.4	34.3	38.6	41.1	41.1
66°	2402.8	844.1	159.4	62.6	48.0	41.1	37.7	34.3	37.7	39.4	40.3
67.5°	2192.9	665.8	118.3	54.8	44.6	37.7	35.1	32.6	36.0	37.7	37.7
70°	1714.7	396.8	71.1	42.8	38.6	33.4	31.7	30.0	32.6	33.4	33.4
72.5°	1073.7	188.5	45.4	31.7	32.6	31.7	26.6	28.3	29.1	30.0	30.0
75°	520.2	74.6	30.8	23.1	26.6	30.0	21.4	24.9	25.7	27.4	26.6
77.5°	144.8	36.0	19.7	17.1	23.1	23.1	16.3	19.7	23.1	29.1	26.6
80°	42.0	23.1	12.9	12.9	16.3	16.3	11.1	13.7	15.4	17.1	18.0
82.5°	29.1	15.4	8.6	9.4	9.4	10.3	6.9	6.9	8.6	8.6	9.4
85°	23.1	6.9	5.1	6.0	4.3	5.1	3.4	3.4	4.3	3.4	3.4
87.5°	9.4	3.4	3.4	3.4	2.6	2.6	1.7	0.9	0.9	0.9	0.9
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)