

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: P1210728

Luminaire Tested: **ARCH3-50-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210728
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: ARCH3-50-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 425mA 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: 6489 lumens
Efficiency: N/A
Efficacy: 121.1 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

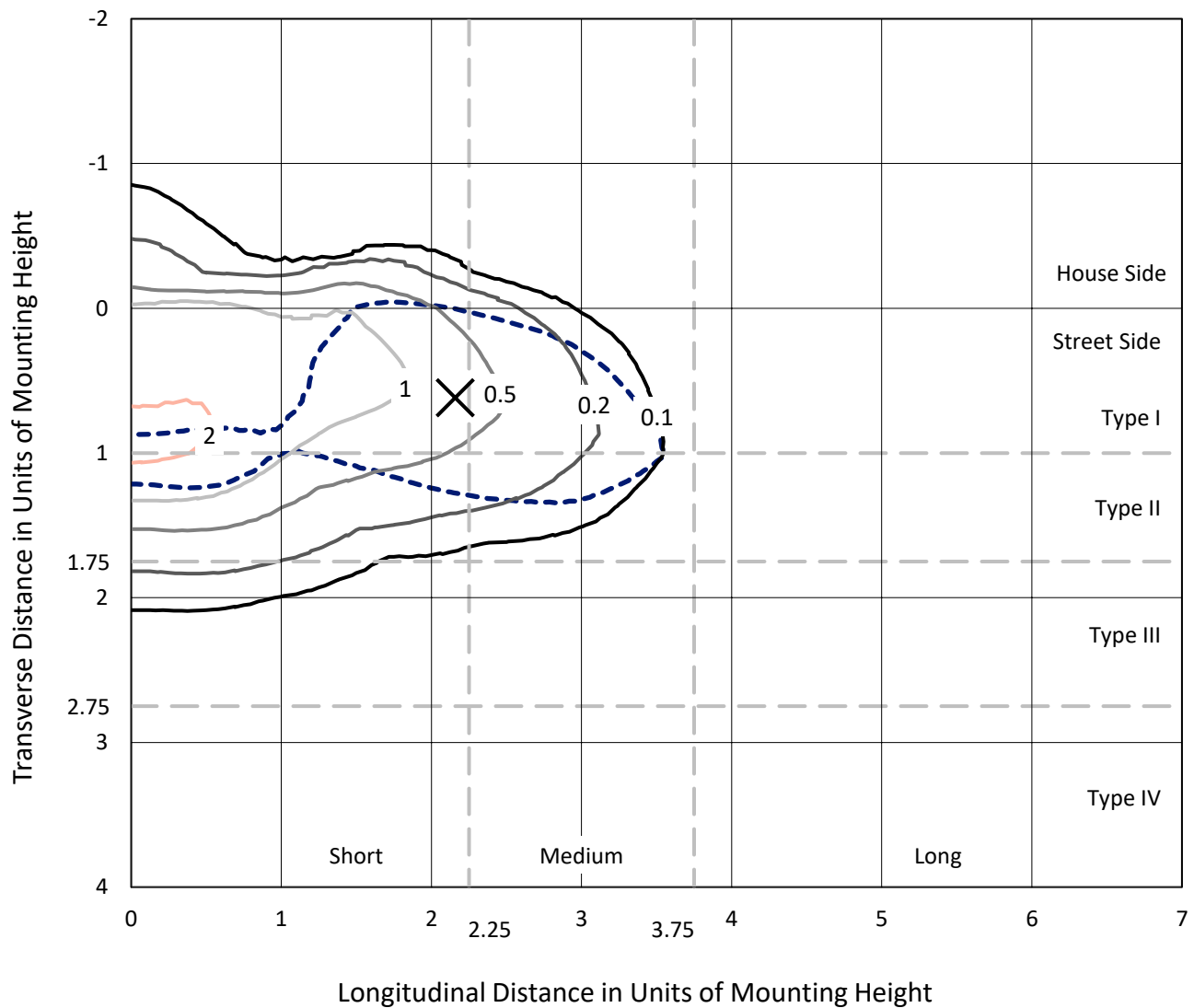
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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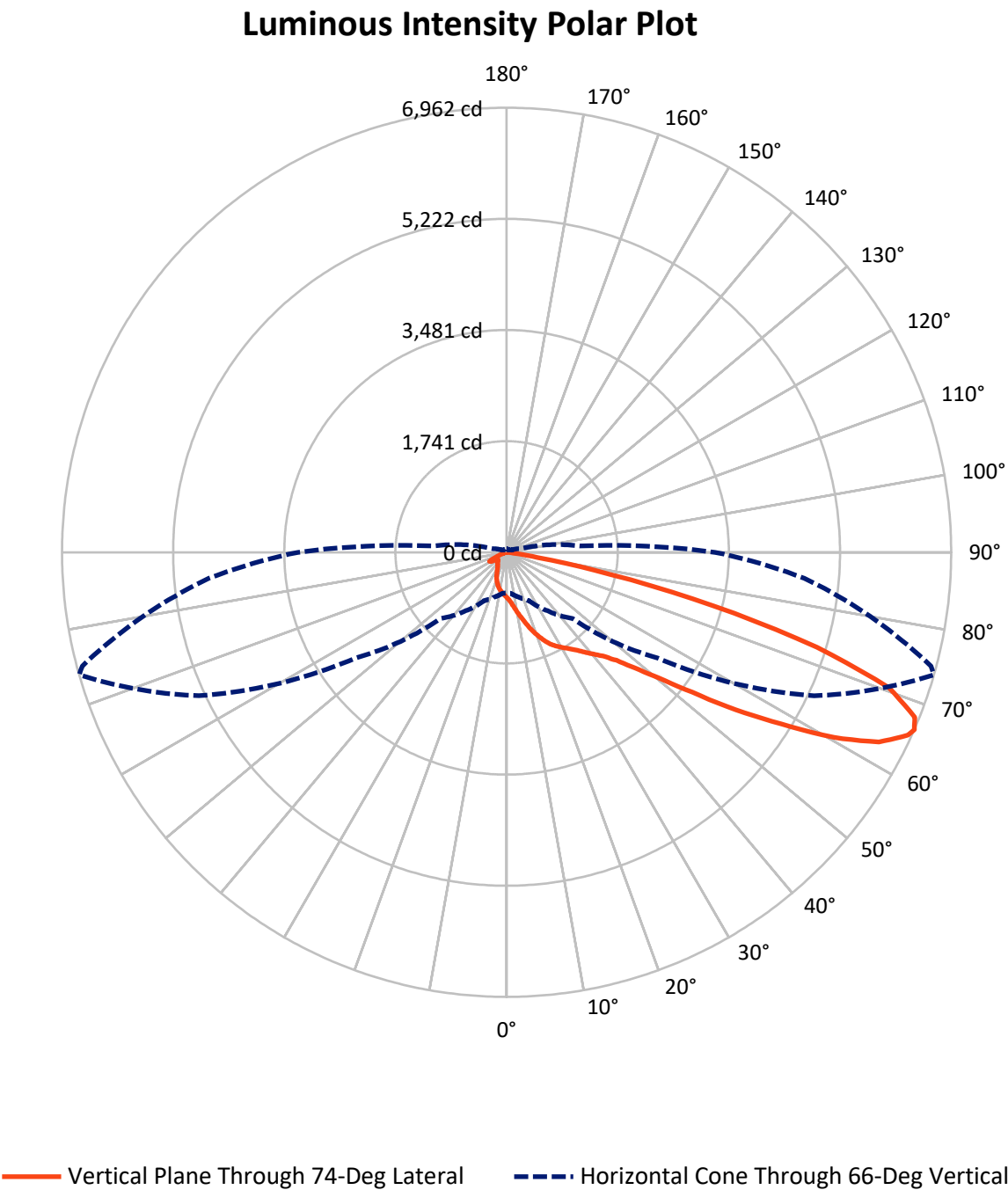
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.1	0.0	636.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5852.9	0.0	5852.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	6489.0	0.0	6489.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.1
10°-20°	221.6	3.4
20°-30°	423.0	6.5
30°-40°	741.4	11.4
40°-50°	1271.3	19.6
50°-60°	1653.4	25.5
60°-70°	1496.8	23.1
70°-80°	577.5	8.9
80°-90°	34.8	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°	6489.0	100.0
0°-180°	6489.0	100.0

Coefficient of Utilization



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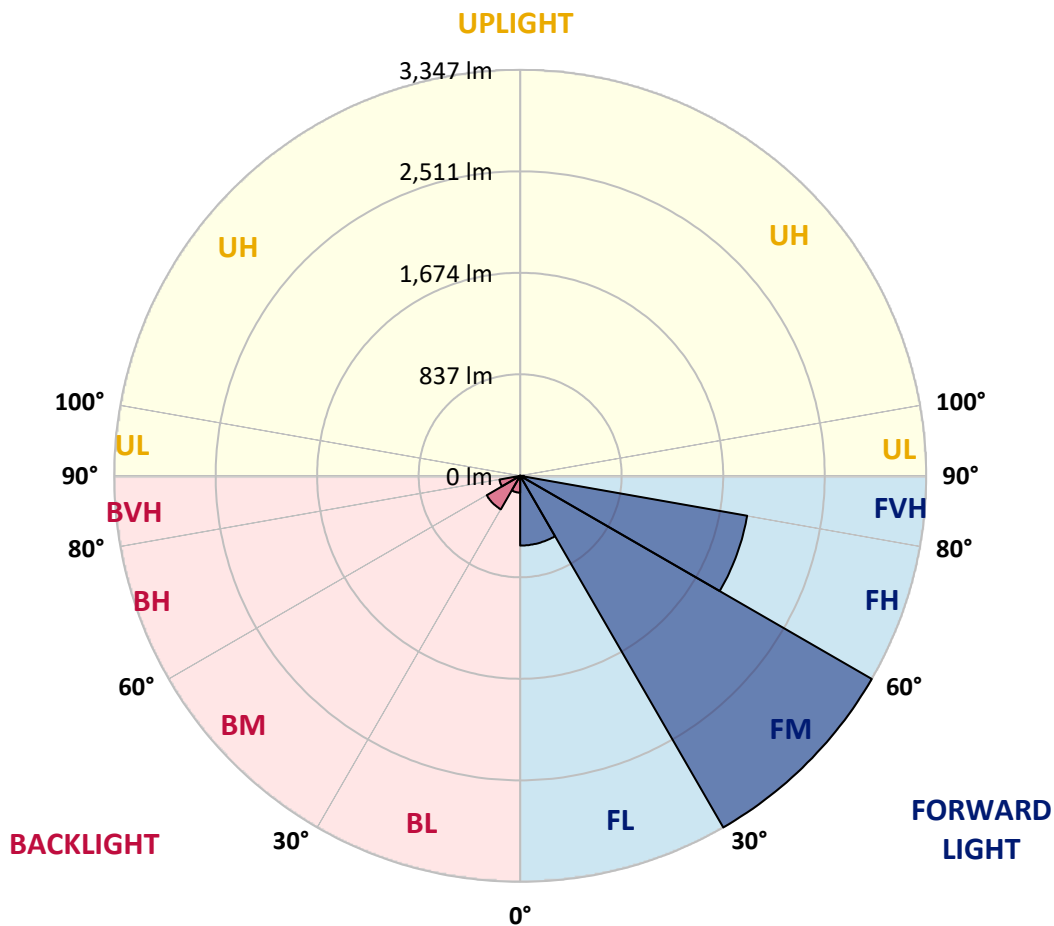
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.0	8.9			
FM	(30°-60°)	3347.4	51.6			
FH	(60°-80°)	1900.4	29.3			G2/5000
FVH	(80°-90°)	30.1	0.5			G1/100
BL	(0°-30°)	138.8	2.1	B1/500		
BM	(30°-60°)	318.8	4.9	B1/1000		
BH	(60°-80°)	173.9	2.7	B1/500		G1/500
BVH	(80°-90°)	4.7	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°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	850.5	843.5	830.7	829.5	819.0	806.2	784.1	760.8	744.4	742.1	722.3
5°	1018.2	1014.7	1001.9	993.8	974.0	943.7	892.4	841.1	798.0	793.4	749.1
7.5°	1062.5	1064.8	1067.2	1075.3	1068.3	1054.3	1015.9	943.7	876.1	865.6	788.7
10°	1069.5	1067.2	1067.2	1077.6	1097.4	1117.3	1112.6	1050.8	963.5	950.7	843.5
12.5°	1145.2	1148.7	1140.6	1135.9	1132.4	1142.9	1177.8	1151.0	1055.5	1045.0	909.9
15°	1243.1	1241.9	1230.3	1230.3	1219.8	1202.3	1224.4	1244.2	1166.2	1153.4	985.6
17.5°	1314.1	1318.8	1317.6	1324.6	1321.1	1297.8	1286.2	1327.0	1280.4	1264.0	1071.8
20°	1371.2	1384.0	1388.7	1410.8	1421.3	1405.0	1374.7	1400.4	1389.9	1374.7	1159.2
22.5°	1431.8	1442.3	1450.4	1488.9	1518.0	1514.5	1476.1	1470.3	1495.9	1481.9	1245.4
25°	1492.4	1497.0	1521.5	1568.1	1614.7	1626.4	1586.8	1541.3	1591.4	1578.6	1322.3
27.5°	1558.8	1561.1	1590.2	1647.3	1712.6	1737.0	1705.6	1621.7	1664.8	1664.8	1392.2
30°	1680.0	1703.3	1714.9	1766.2	1823.3	1857.0	1819.8	1706.8	1730.1	1740.5	1465.6
32.5°	1940.9	1944.4	1940.9	1963.1	1974.7	1994.5	1951.4	1802.3	1796.5	1808.1	1537.8
35°	2339.4	2325.4	2288.1	2255.5	2187.9	2150.6	2094.7	1924.6	1878.0	1894.3	1608.9
37.5°	2822.8	2803.0	2718.0	2617.8	2473.3	2324.2	2254.3	2073.7	1981.7	2002.7	1685.8
40°	3284.2	3271.4	3170.0	3046.5	2799.5	2544.4	2396.4	2199.6	2097.0	2105.2	1763.8
42.5°	3664.0	3661.6	3576.6	3447.3	3130.4	2782.1	2564.2	2323.0	2218.2	2231.0	1845.4
45°	3951.7	3929.6	3866.7	3773.5	3450.8	3029.0	2766.9	2510.6	2412.8	2427.9	1967.7
47.5°	3951.7	3955.2	3996.0	3986.7	3674.5	3260.9	2988.3	2747.1	2700.5	2714.5	2169.3
50°	3630.2	3662.8	3844.6	3997.2	3791.0	3441.5	3227.1	3043.0	3090.8	3111.8	2521.1
52.5°	2994.1	3048.8	3364.6	3712.9	3704.8	3532.3	3474.1	3419.3	3633.7	3671.0	3040.7
55°	2275.3	2311.4	2722.6	3180.5	3329.6	3457.8	3689.6	3897.0	4352.5	4344.3	3568.4
57.5°	1699.8	1733.5	2087.7	2595.7	2792.5	3135.1	3800.3	4443.4	5065.5	5097.0	4063.6
60°	1250.1	1275.7	1577.4	1994.5	2278.8	2641.1	3756.0	4981.6	5886.8	5850.7	4500.5
62.5°	925.0	939.0	1156.9	1428.3	1805.8	2151.8	3477.6	5349.8	6542.7	6469.3	4743.9
65°	715.3	720.0	833.0	977.4	1313.0	1673.0	3062.8	5405.7	6905.1	6827.0	4739.3
66°	637.3	640.8	723.5	835.3	1117.3	1464.4	2881.1	5316.0	6962.1	6879.4	4681.0
67.5°	534.7	532.4	581.3	654.7	838.8	1130.1	2558.4	5053.8	6894.6	6852.6	4494.6
70°	396.1	397.3	421.7	439.2	490.5	625.6	1847.7	4384.0	6354.0	6351.7	3983.2
72.5°	293.6	297.1	315.7	319.2	306.4	339.0	1064.8	3486.9	5083.0	5084.1	2977.8
75°	220.2	226.0	231.8	234.2	222.5	214.4	481.2	2346.3	3343.6	3319.1	1685.8
77.5°	167.8	170.1	174.8	171.3	168.9	148.0	200.4	1144.0	1650.8	1504.0	546.4
80°	122.3	122.3	127.0	122.3	121.2	106.0	109.5	367.0	484.6	403.1	117.7
82.5°	76.9	75.7	79.2	78.1	75.7	67.6	64.1	102.5	111.8	100.2	57.1
85°	43.1	41.9	40.8	39.6	36.1	30.3	35.0	38.4	51.3	52.4	40.8
87.5°	15.1	15.1	14.0	12.8	10.5	10.5	12.8	12.8	18.6	18.6	21.0
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°	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3	708.3
2.5°	713.0	700.2	681.5	657.1	639.6	622.1	603.5	593.0	577.8	574.4	579.0
5°	725.8	702.5	655.9	604.6	560.4	520.8	483.5	461.3	439.2	431.1	434.6
7.5°	752.6	713.0	633.8	551.1	477.7	418.2	374.0	348.3	328.5	320.4	322.7
10°	792.2	731.6	612.8	490.5	396.1	333.2	295.9	279.6	268.0	263.3	264.5
12.5°	840.0	758.4	586.0	429.9	326.2	271.4	254.0	250.5	248.1	245.8	247.0
15°	893.6	781.7	554.5	370.5	271.4	241.2	235.3	234.2	233.0	233.0	233.0
17.5°	949.5	802.7	519.6	314.6	236.5	222.5	219.0	219.0	219.0	220.2	220.2
20°	1001.9	819.0	478.8	264.5	216.7	205.0	202.7	202.7	203.9	205.0	205.0
22.5°	1053.2	826.0	431.1	229.5	200.4	189.9	186.4	186.4	186.4	187.6	187.6
25°	1097.4	826.0	383.3	207.4	186.4	175.9	171.3	170.1	171.3	171.3	171.3
27.5°	1134.7	822.5	336.7	192.2	172.4	161.9	157.3	156.1	158.4	159.6	159.6
30°	1174.3	817.8	299.4	178.2	160.8	150.3	145.6	145.6	149.1	153.8	153.8
32.5°	1212.8	821.3	270.3	166.6	149.1	141.0	136.3	137.5	144.5	151.5	151.5
35°	1253.6	828.3	252.8	158.4	141.0	132.8	129.3	132.8	139.8	146.8	146.8
37.5°	1294.3	836.5	242.3	151.5	134.0	125.8	123.5	128.2	136.3	143.3	144.5
40°	1337.4	843.5	230.7	144.5	129.3	120.0	118.8	123.5	134.0	141.0	142.1
42.5°	1391.0	857.5	216.7	138.6	124.7	113.0	114.2	117.7	128.2	138.6	139.8
45°	1495.9	901.7	202.7	132.8	118.8	109.5	107.2	109.5	121.2	132.8	135.1
47.5°	1692.8	1001.9	187.6	127.0	113.0	107.2	97.9	100.2	110.7	123.5	124.7
50°	2070.2	1215.1	179.4	121.2	108.3	99.0	88.5	88.5	96.7	108.3	108.3
52.5°	2658.6	1597.2	184.1	116.5	102.5	90.9	80.4	79.2	83.9	92.0	92.0
55°	3293.5	2016.6	201.5	111.8	95.5	86.2	74.6	68.7	72.2	76.9	76.9
57.5°	3796.8	2227.5	249.3	109.5	87.4	82.7	67.6	59.4	62.9	67.6	67.6
60°	4018.1	2104.0	302.9	111.8	81.6	76.9	60.6	52.4	58.3	62.9	64.1
62.5°	3838.7	1732.4	325.0	106.0	73.4	68.7	59.4	48.9	55.9	59.4	60.6
65°	3450.8	1316.5	254.0	92.0	67.6	59.4	53.6	46.6	52.4	55.9	55.9
66°	3266.7	1147.5	216.7	85.0	65.2	55.9	51.3	46.6	51.3	53.6	54.8
67.5°	2981.3	905.2	160.8	74.6	60.6	51.3	47.8	44.3	48.9	51.3	51.3
70°	2331.2	539.4	96.7	58.3	52.4	45.4	43.1	40.8	44.3	45.4	45.4
72.5°	1459.8	256.3	61.7	43.1	44.3	43.1	36.1	38.4	39.6	40.8	40.8
75°	707.2	101.4	41.9	31.5	36.1	40.8	29.1	33.8	35.0	37.3	36.1
77.5°	196.9	48.9	26.8	23.3	31.5	31.5	22.1	26.8	31.5	39.6	36.1
80°	57.1	31.5	17.5	17.5	22.1	22.1	15.1	18.6	21.0	23.3	24.5
82.5°	39.6	21.0	11.7	12.8	12.8	14.0	9.3	9.3	11.7	11.7	12.8
85°	31.5	9.3	7.0	8.2	5.8	7.0	4.7	4.7	5.8	4.7	4.7
87.5°	12.8	4.7	4.7	4.7	3.5	3.5	2.3	1.2	1.2	1.2	1.2
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)