

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: P1211580

Luminaire Tested: **ARCH4-50-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211580
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: ARCH4-50-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

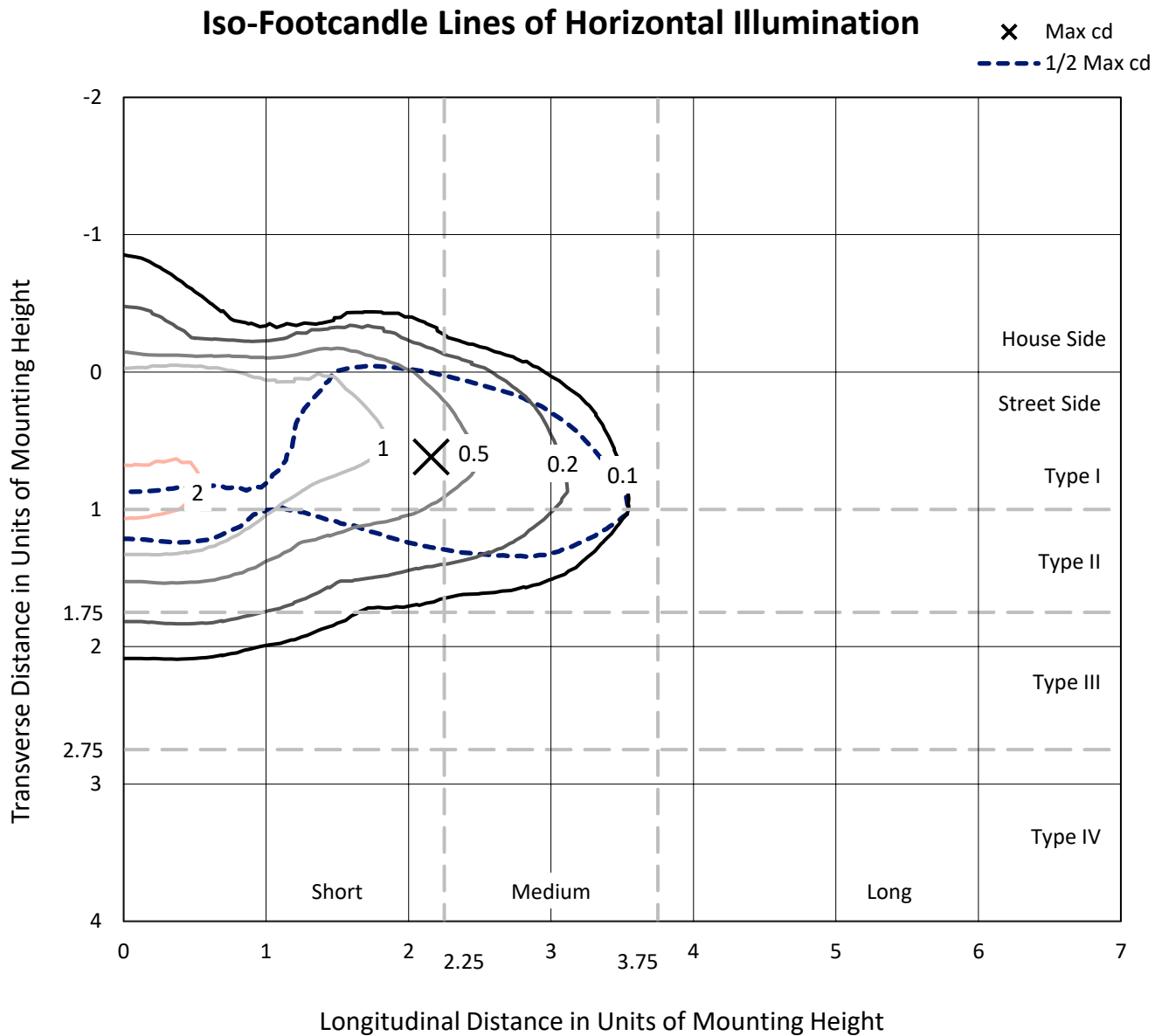
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6488 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.2
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



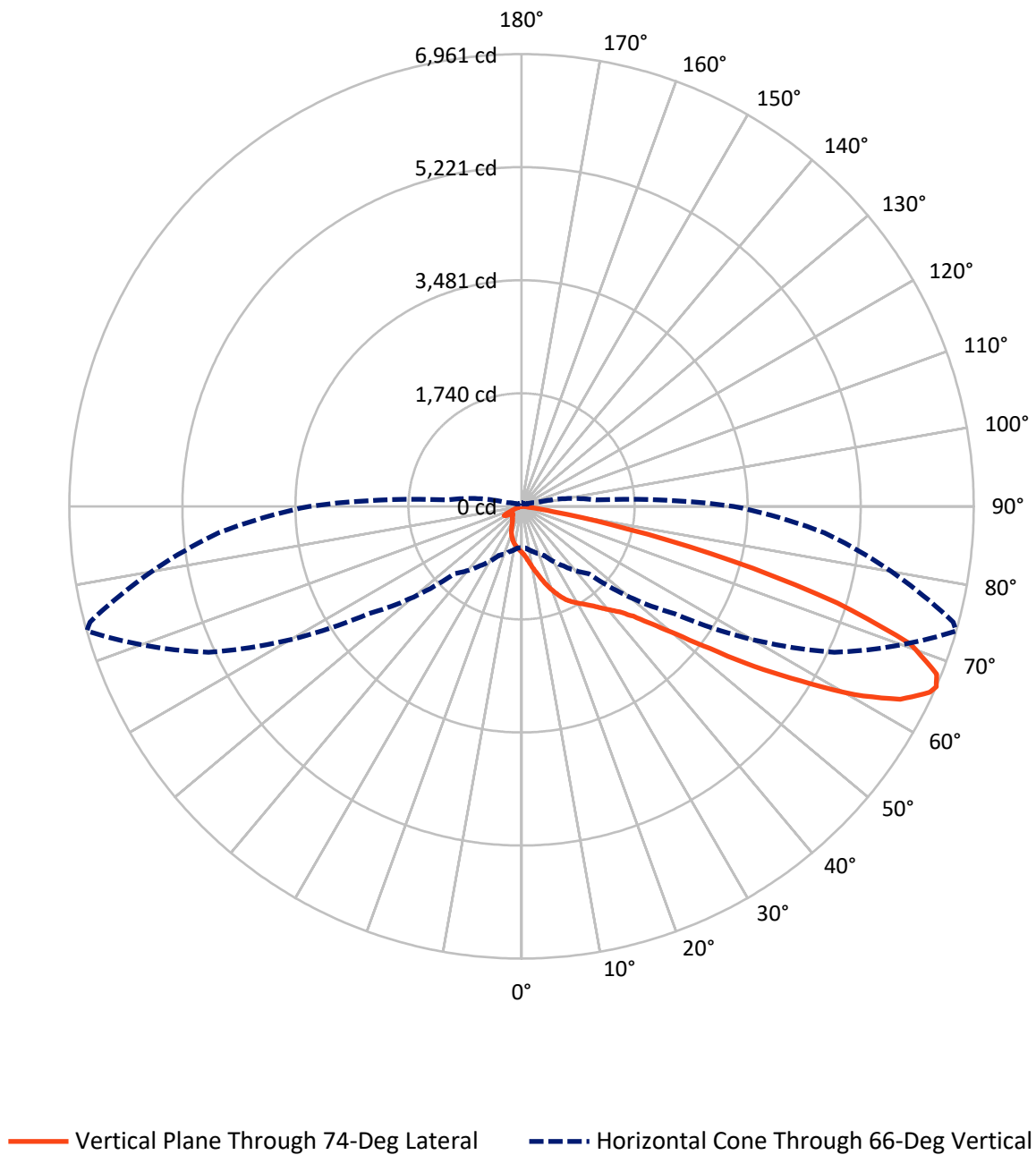
REPORT NUMBER: P1211580
CATALOG NUMBER: ARCH4-50-730-U-T2RE-HSS



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

REPORT NUMBER: P1211580
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	636.0	0.0	636.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	5852.0	0.0	5852.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	6488.0	0.0	6488.0
	% 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°	422.9	6.5
30°-40°	741.3	11.4
40°-50°	1271.1	19.6
50°-60°	1653.2	25.5
60°-70°	1496.5	23.1
70°-80°	577.5	8.9
80°-90°	34.7	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°	6488.0	100.0
0°-180°	6488.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211580

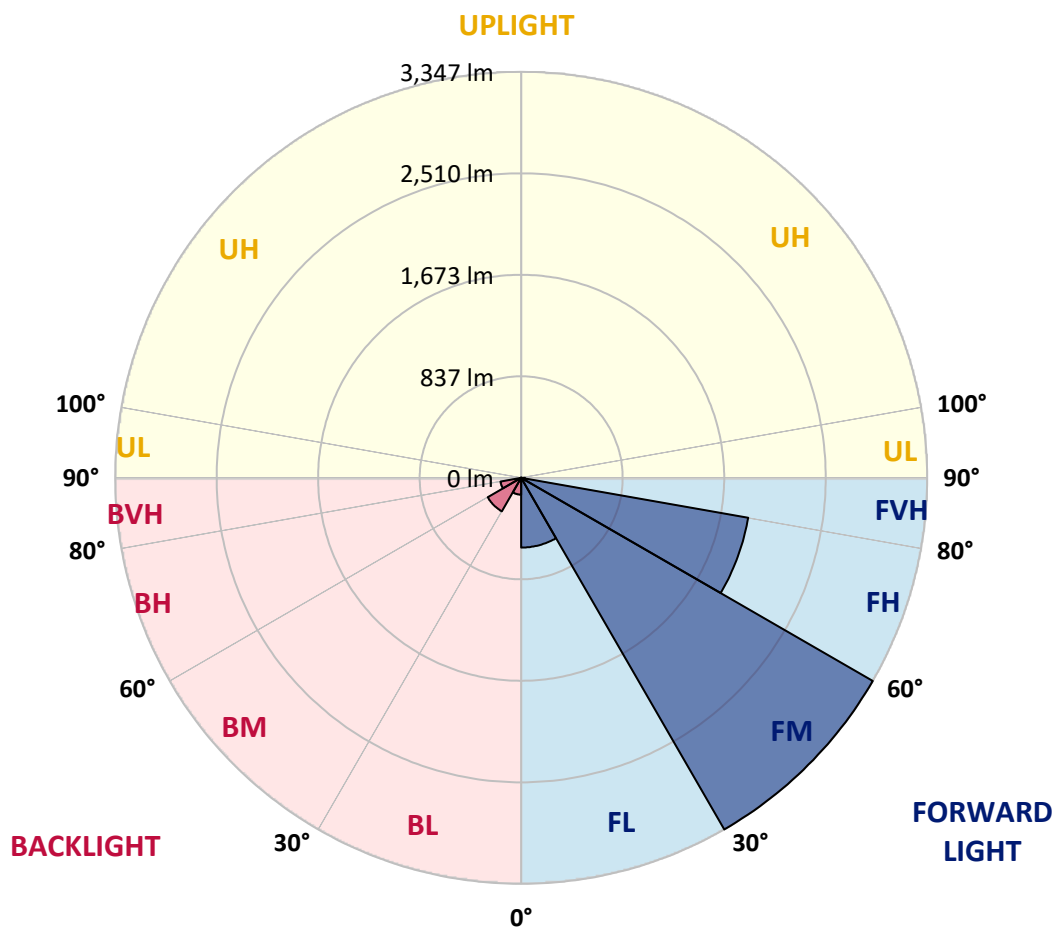
CATALOG NUMBER: ARCH4-50-730-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.9	8.9			
FM	(30°-60°)	3346.8	51.6			
FH	(60°-80°)	1900.1	29.3			G2/5000
FVH	(80°-90°)	30.1	0.5			G1/100
BL	(0°-30°)	138.7	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



REPORT NUMBER: P1211580

CATALOG NUMBER: ARCH4-50-730-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2
2.5°	850.3	843.3	830.5	829.4	818.9	806.1	783.9	760.6	744.3	742.0	722.2
5°	1018.1	1014.6	1001.8	993.6	973.8	943.5	892.3	841.0	797.9	793.3	749.0
7.5°	1062.3	1064.7	1067.0	1075.1	1068.2	1054.2	1015.7	943.5	876.0	865.5	788.6
10°	1069.3	1067.0	1067.0	1077.5	1097.3	1117.1	1112.4	1050.7	963.3	950.5	843.3
12.5°	1145.0	1148.5	1140.4	1135.7	1132.2	1142.7	1177.7	1150.9	1055.3	1044.9	909.7
15°	1242.9	1241.7	1230.1	1230.1	1219.6	1202.1	1224.2	1244.0	1166.0	1153.2	985.5
17.5°	1313.9	1318.6	1317.4	1324.4	1320.9	1297.6	1286.0	1326.8	1280.2	1263.8	1071.7
20°	1371.0	1383.8	1388.5	1410.6	1421.1	1404.8	1374.5	1400.1	1389.7	1374.5	1159.0
22.5°	1431.6	1442.1	1450.2	1488.7	1517.8	1514.3	1475.8	1470.0	1495.7	1481.7	1245.2
25°	1492.2	1496.8	1521.3	1567.9	1614.5	1626.1	1586.5	1541.1	1591.2	1578.4	1322.1
27.5°	1558.6	1560.9	1590.0	1647.1	1712.3	1736.8	1705.3	1621.5	1664.6	1664.6	1392.0
30°	1679.7	1703.0	1714.6	1765.9	1823.0	1856.8	1819.5	1706.5	1729.8	1740.3	1465.4
32.5°	1940.6	1944.1	1940.6	1962.8	1974.4	1994.2	1951.1	1802.0	1796.2	1807.8	1537.6
35°	2339.0	2325.0	2287.7	2255.1	2187.6	2150.3	2094.4	1924.3	1877.7	1894.0	1608.6
37.5°	2822.4	2802.6	2717.6	2617.4	2473.0	2323.9	2254.0	2073.4	1981.4	2002.4	1685.5
40°	3283.7	3270.9	3169.5	3046.1	2799.1	2544.0	2396.1	2199.2	2096.7	2104.9	1763.6
42.5°	3663.4	3661.1	3576.1	3446.8	3129.9	2781.6	2563.8	2322.7	2217.9	2230.7	1845.1
45°	3951.1	3929.0	3866.1	3772.9	3450.2	3028.6	2766.5	2510.2	2412.4	2427.5	1967.4
47.5°	3951.1	3954.6	3995.4	3986.1	3673.9	3260.4	2987.8	2746.7	2700.1	2714.1	2168.9
50°	3629.6	3662.2	3844.0	3996.6	3790.4	3440.9	3226.6	3042.6	3090.3	3111.3	2520.7
52.5°	2993.6	3048.4	3364.1	3712.3	3704.2	3531.8	3473.5	3418.8	3633.1	3670.4	3040.2
55°	2274.9	2311.0	2722.2	3180.0	3329.1	3457.2	3689.0	3896.4	4351.8	4343.7	3567.9
57.5°	1699.5	1733.3	2087.4	2595.3	2792.1	3134.6	3799.7	4442.7	5064.7	5096.2	4063.0
60°	1249.9	1275.5	1577.2	1994.2	2278.4	2640.7	3755.4	4980.8	5885.9	5849.8	4499.8
62.5°	924.9	938.9	1156.7	1428.1	1805.5	2151.5	3477.0	5348.9	6541.7	6468.3	4743.2
65°	715.2	719.9	832.9	977.3	1312.8	1672.7	3062.4	5404.8	6904.0	6825.9	4738.6
66°	637.2	640.7	723.4	835.2	1117.1	1464.2	2880.6	5315.2	6961.1	6878.4	4680.3
67.5°	534.7	532.3	581.3	654.6	838.7	1129.9	2558.0	5053.1	6893.5	6851.6	4493.9
70°	396.0	397.2	421.7	439.1	490.4	625.5	1847.4	4383.3	6353.0	6350.7	3982.6
72.5°	293.5	297.0	315.7	319.2	306.4	339.0	1064.7	3486.4	5082.2	5083.4	2977.3
75°	220.2	226.0	231.8	234.1	222.5	214.3	481.1	2346.0	3343.1	3318.6	1685.5
77.5°	167.7	170.1	174.7	171.2	168.9	147.9	200.4	1143.9	1650.6	1503.8	546.3
80°	122.3	122.3	127.0	122.3	121.1	106.0	109.5	366.9	484.6	403.0	117.6
82.5°	76.9	75.7	79.2	78.0	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	34.9	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

REPORT NUMBER: P1211580

CATALOG NUMBER: ARCH4-50-730-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2
2.5°	712.9	700.1	681.4	657.0	639.5	622.0	603.4	592.9	577.8	574.3	578.9
5°	725.7	702.4	655.8	604.6	560.3	520.7	483.4	461.3	439.1	431.0	434.5
7.5°	752.5	712.9	633.7	551.0	477.6	418.2	373.9	348.3	328.5	320.3	322.7
10°	792.1	731.5	612.7	490.4	396.0	333.1	295.9	279.6	267.9	263.3	264.4
12.5°	839.8	758.3	585.9	429.8	326.2	271.4	253.9	250.4	248.1	245.8	246.9
15°	893.4	781.6	554.5	370.4	271.4	241.1	235.3	234.1	233.0	233.0	233.0
17.5°	949.3	802.6	519.5	314.5	236.5	222.5	219.0	219.0	219.0	220.2	220.2
20°	1001.8	818.9	478.7	264.4	216.7	205.0	202.7	202.7	203.8	205.0	205.0
22.5°	1053.0	825.9	431.0	229.5	200.4	189.9	186.4	186.4	186.4	187.5	187.5
25°	1097.3	825.9	383.2	207.3	186.4	175.9	171.2	170.1	171.2	171.2	171.2
27.5°	1134.6	822.4	336.6	192.2	172.4	161.9	157.3	156.1	158.4	159.6	159.6
30°	1174.2	817.7	299.4	178.2	160.7	150.3	145.6	145.6	149.1	153.8	153.8
32.5°	1212.6	821.2	270.2	166.6	149.1	140.9	136.3	137.5	144.4	151.4	151.4
35°	1253.4	828.2	252.8	158.4	140.9	132.8	129.3	132.8	139.8	146.8	146.8
37.5°	1294.1	836.4	242.3	151.4	134.0	125.8	123.5	128.1	136.3	143.3	144.4
40°	1337.2	843.3	230.6	144.4	129.3	120.0	118.8	123.5	134.0	140.9	142.1
42.5°	1390.8	857.3	216.7	138.6	124.6	113.0	114.2	117.6	128.1	138.6	139.8
45°	1495.7	901.6	202.7	132.8	118.8	109.5	107.2	109.5	121.1	132.8	135.1
47.5°	1692.5	1001.8	187.5	127.0	113.0	107.2	97.8	100.2	110.7	123.5	124.6
50°	2069.9	1214.9	179.4	121.1	108.3	99.0	88.5	88.5	96.7	108.3	108.3
52.5°	2658.2	1597.0	184.0	116.5	102.5	90.9	80.4	79.2	83.9	92.0	92.0
55°	3293.0	2016.3	201.5	111.8	95.5	86.2	74.5	68.7	72.2	76.9	76.9
57.5°	3796.2	2227.2	249.3	109.5	87.4	82.7	67.6	59.4	62.9	67.6	67.6
60°	4017.5	2103.7	302.9	111.8	81.5	76.9	60.6	52.4	58.2	62.9	64.1
62.5°	3838.1	1732.1	325.0	106.0	73.4	68.7	59.4	48.9	55.9	59.4	60.6
65°	3450.2	1316.3	253.9	92.0	67.6	59.4	53.6	46.6	52.4	55.9	55.9
66°	3266.2	1147.4	216.7	85.0	65.2	55.9	51.3	46.6	51.3	53.6	54.7
67.5°	2980.8	905.1	160.7	74.5	60.6	51.3	47.8	44.3	48.9	51.3	51.3
70°	2330.8	539.3	96.7	58.2	52.4	45.4	43.1	40.8	44.3	45.4	45.4
72.5°	1459.5	256.3	61.7	43.1	44.3	43.1	36.1	38.4	39.6	40.8	40.8
75°	707.1	101.3	41.9	31.5	36.1	40.8	29.1	33.8	34.9	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	11.6	12.8	12.8	14.0	9.3	9.3	11.6	11.6	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)