

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: P1209981

Luminaire Tested: **ARCH1-40-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209981
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-40-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

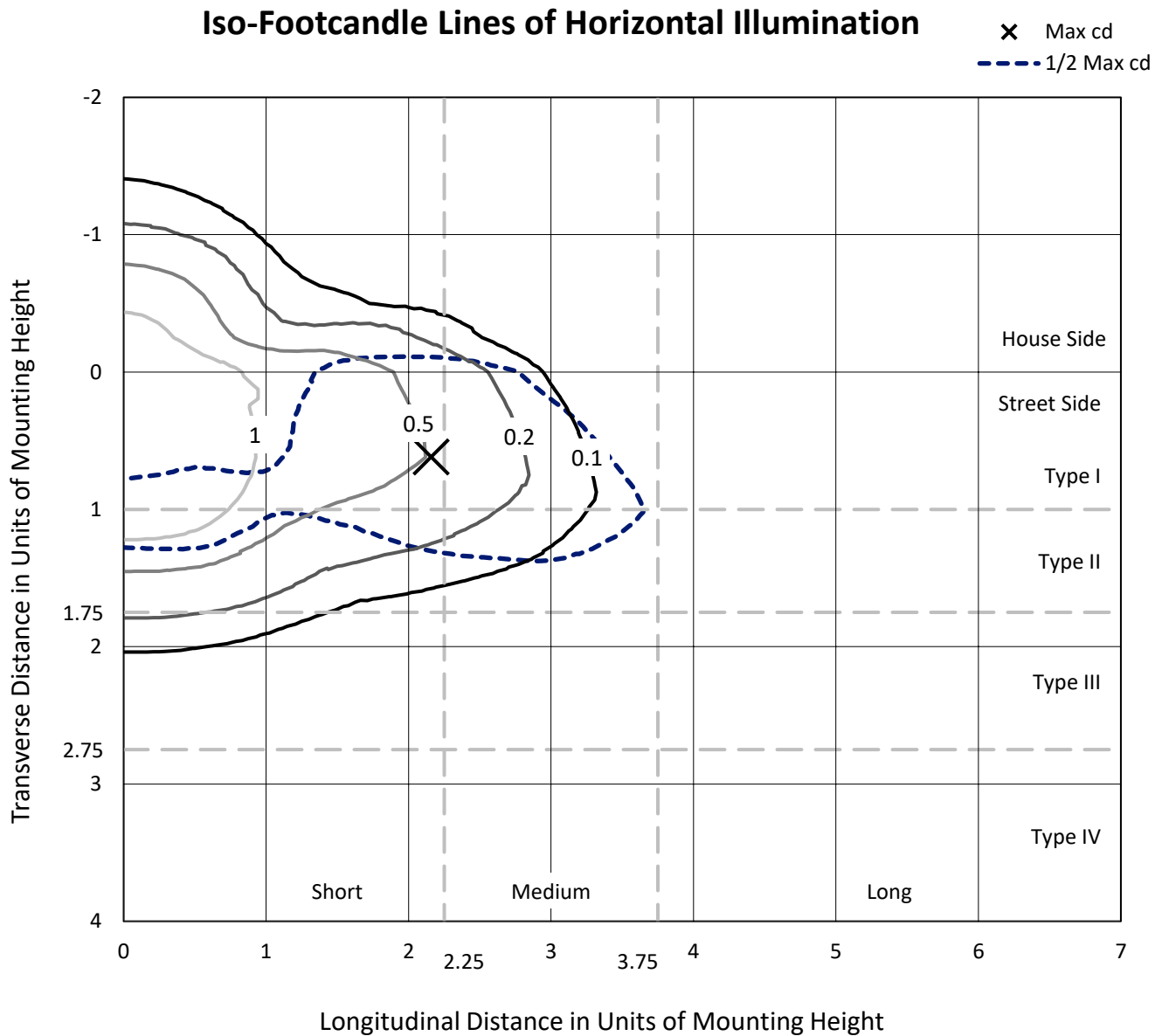
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5724 lumens
Efficiency: N/A
Efficacy: 133.1 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): 43
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

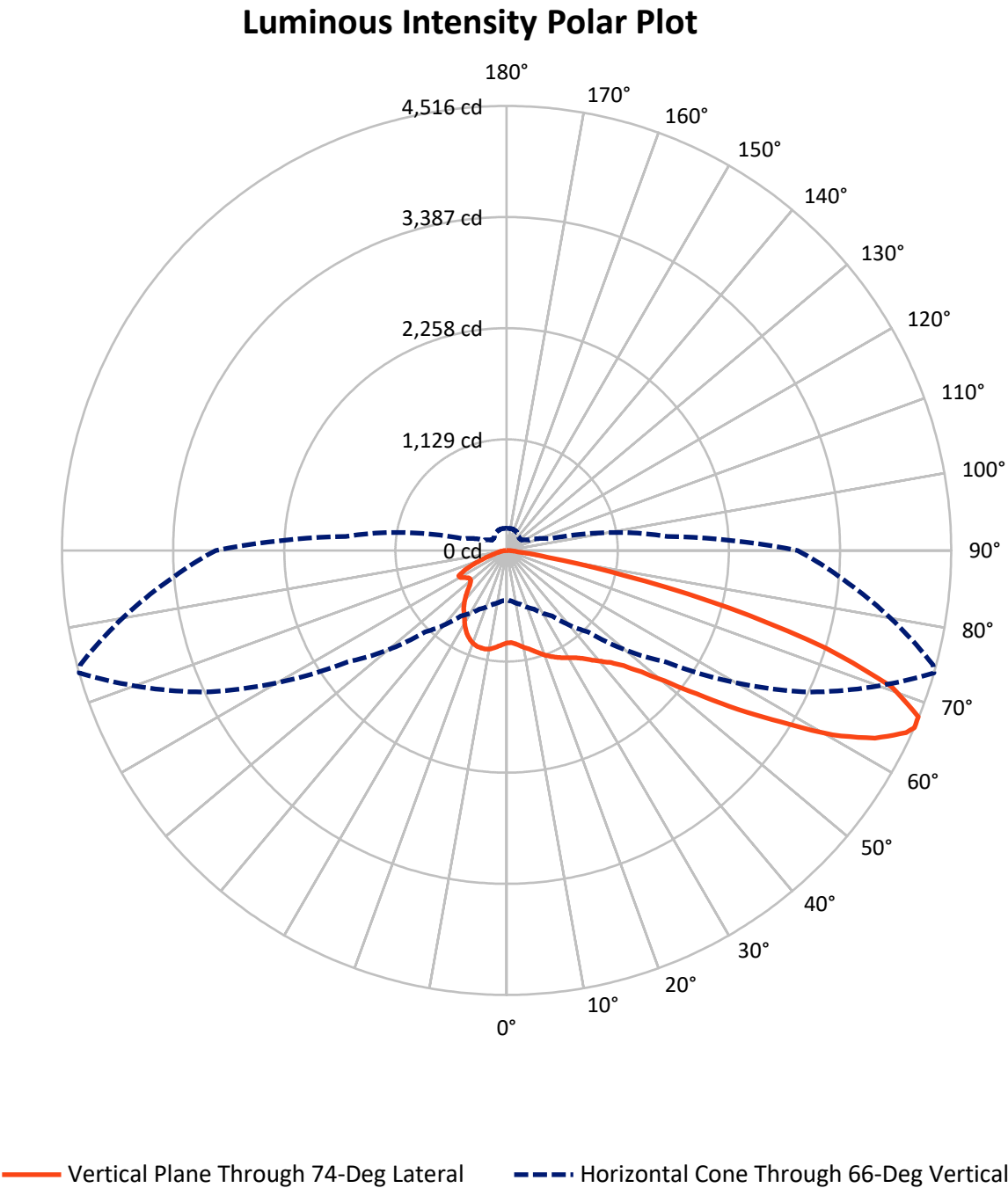


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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.0	0.0	1394.0
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4330.0	0.0	4330.0
	% Fixture	75.6	0.0	75.6
Total	Lumens	5724.0	0.0	5724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.6
10°-20°	275.3	4.8
20°-30°	516.5	9.0
30°-40°	794.5	13.9
40°-50°	1068.7	18.7
50°-60°	1263.9	22.1
60°-70°	1169.2	20.4
70°-80°	491.9	8.6
80°-90°	54.4	1.0
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°	5724.0	100.0
0°-180°	5724.0	100.0

Coefficient of Utilization



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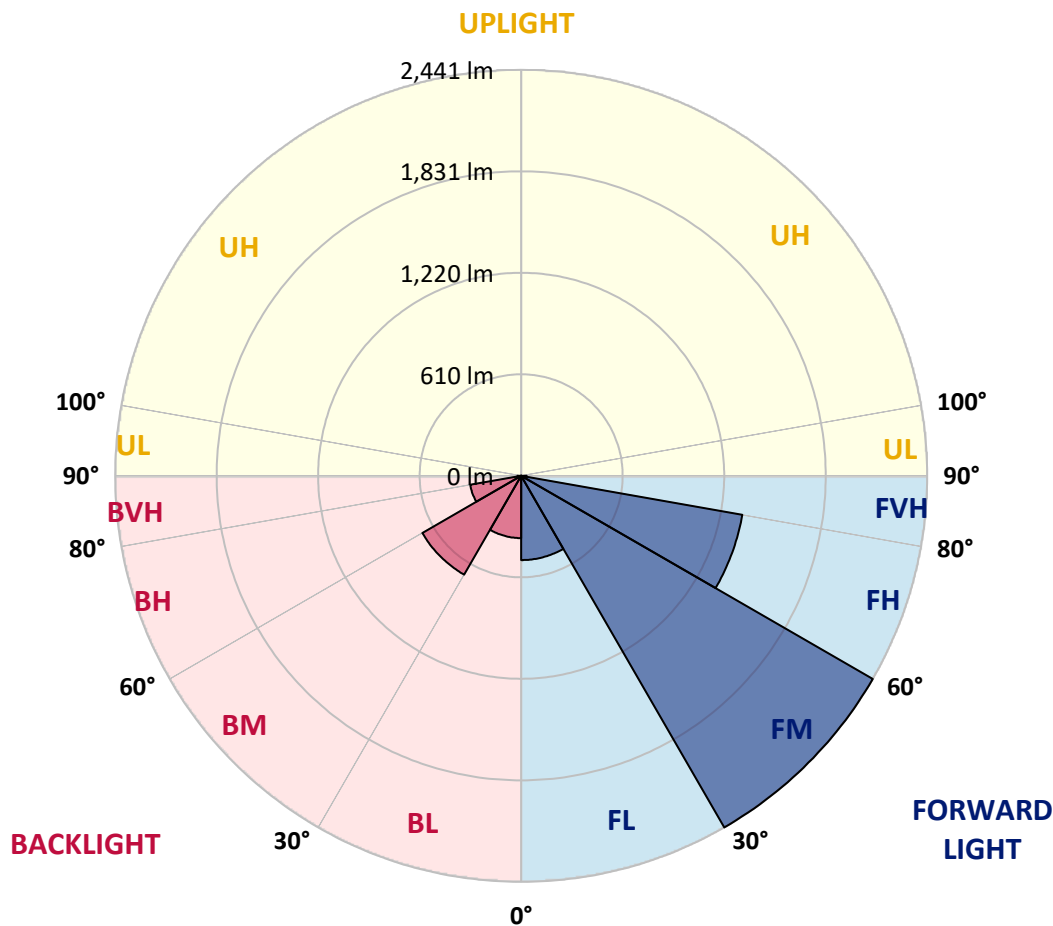
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	506.6	8.9			
FM	(30°-60°)	2441.0	42.6			
FH	(60°-80°)	1349.9	23.6			G1/1800
FVH	(80°-90°)	32.6	0.6			G1/100
BL	(0°-30°)	374.7	6.5	B1/500		
BM	(30°-60°)	686.2	12.0	B1/1000		
BH	(60°-80°)	311.2	5.4	B1/500		G1/500
BVH	(80°-90°)	21.9	0.4			G1/100
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°	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4
2.5°	935.4	933.9	936.9	941.3	943.5	939.8	938.4	937.6	937.6	935.4	939.1
5°	891.2	890.5	897.1	905.2	920.7	931.7	946.5	955.3	952.3	947.9	950.9
7.5°	833.8	832.3	840.4	855.9	877.2	901.5	937.6	965.6	976.7	975.2	974.4
10°	855.9	854.4	853.7	849.2	856.6	880.2	917.7	967.1	1004.6	1005.4	1006.1
12.5°	932.5	936.1	932.5	918.5	902.3	893.4	915.5	970.8	1028.2	1032.6	1051.0
15°	1037.1	1033.4	1026.0	1009.8	984.8	958.2	942.0	987.7	1062.1	1065.8	1106.3
17.5°	1129.1	1132.1	1127.6	1112.2	1082.7	1048.1	998.8	1017.2	1098.2	1108.5	1165.2
20°	1229.3	1241.1	1235.2	1216.0	1191.7	1140.2	1078.3	1059.9	1138.0	1145.3	1226.3
22.5°	1344.9	1357.4	1346.4	1328.0	1308.1	1244.8	1165.2	1112.2	1171.1	1186.6	1285.3
25°	1483.4	1495.2	1484.9	1456.1	1431.1	1353.8	1258.7	1171.1	1203.5	1220.4	1333.1
27.5°	1593.1	1602.0	1611.6	1594.6	1556.3	1476.0	1356.0	1232.2	1235.9	1253.6	1377.3
30°	1691.1	1713.2	1721.3	1723.5	1691.1	1601.2	1455.4	1295.6	1263.9	1282.3	1421.5
32.5°	1825.1	1858.3	1845.0	1858.3	1839.1	1719.1	1558.5	1361.1	1300.0	1316.9	1463.5
35°	2021.1	2047.6	2013.0	2002.7	1971.7	1838.4	1658.0	1428.9	1347.9	1366.3	1503.3
37.5°	2231.7	2261.9	2211.8	2170.6	2111.7	1956.3	1743.4	1518.0	1414.2	1428.9	1540.1
40°	2415.9	2440.9	2397.4	2342.9	2244.2	2060.1	1817.0	1580.6	1480.4	1498.9	1582.8
42.5°	2586.0	2602.2	2553.6	2501.3	2369.5	2153.6	1896.6	1646.9	1557.8	1575.5	1617.4
45°	2758.3	2770.9	2703.1	2628.7	2474.0	2239.1	1984.2	1739.7	1671.2	1694.8	1673.4
47.5°	2789.3	2793.0	2781.2	2731.1	2556.5	2320.8	2092.5	1864.2	1844.3	1870.1	1769.9
50°	2574.9	2608.1	2681.0	2730.4	2589.7	2389.3	2200.8	2042.4	2082.9	2116.1	1970.2
52.5°	2158.8	2190.5	2359.1	2546.2	2510.1	2404.8	2317.2	2268.5	2419.5	2459.3	2242.8
55°	1719.8	1747.8	1926.1	2195.6	2253.1	2334.1	2441.6	2557.3	2848.9	2875.5	2541.8
57.5°	1416.4	1431.8	1559.3	1818.5	1910.6	2108.0	2508.7	2900.5	3285.7	3326.2	2801.8
60°	1161.5	1178.5	1273.5	1487.1	1609.3	1784.6	2455.6	3239.3	3807.2	3807.2	3135.5
62.5°	874.3	889.0	977.4	1144.6	1350.1	1510.6	2286.2	3464.0	4200.5	4182.8	3377.0
65°	600.3	612.1	676.1	787.4	972.2	1287.5	2055.0	3466.9	4461.2	4437.7	3480.2
66°	503.8	514.1	568.6	658.5	813.9	1168.2	1973.2	3404.3	4515.7	4482.6	3436.7
67.5°	397.7	405.1	441.2	494.2	596.6	945.7	1844.3	3226.8	4510.6	4490.7	3326.2
70°	284.3	289.5	316.0	327.0	352.8	547.3	1465.0	2826.1	4148.9	4154.8	2891.7
72.5°	220.2	228.3	244.5	246.7	240.8	290.9	889.0	2357.7	3394.0	3391.8	2146.3
75°	177.5	181.9	190.0	194.4	193.0	187.8	376.4	1758.9	2336.3	2363.6	1202.0
77.5°	139.9	139.2	146.6	152.5	156.9	147.3	172.4	1031.2	1224.9	1190.3	451.5
80°	103.1	103.1	113.4	115.6	122.3	123.7	114.9	397.7	420.6	382.3	117.1
82.5°	67.8	67.8	78.8	80.3	86.9	96.5	83.2	119.3	116.4	110.5	53.0
85°	36.8	35.4	39.0	44.2	47.9	56.7	50.1	59.7	61.1	60.4	35.4
87.5°	7.4	6.6	10.3	11.8	13.3	17.7	16.2	24.3	33.9	33.1	15.5
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°	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4	938.4
2.5°	944.2	943.5	951.6	961.2	972.2	978.9	981.8	987.0	983.3	984.8	989.2
5°	958.2	960.5	972.2	984.8	989.9	986.2	978.1	975.2	968.6	967.1	965.6
7.5°	978.9	982.5	994.3	997.3	981.8	956.0	937.6	927.3	916.3	913.3	911.8
10°	1012.7	1015.0	1017.9	987.7	949.4	914.8	892.0	882.4	875.0	869.1	870.6
12.5°	1055.5	1054.0	1031.2	968.6	914.0	878.7	863.2	857.3	852.2	848.5	847.8
15°	1109.2	1098.9	1033.4	942.0	880.9	851.4	840.4	838.2	832.3	832.3	831.6
17.5°	1163.7	1137.2	1031.9	914.0	849.2	833.0	826.4	824.9	823.5	822.7	824.9
20°	1218.2	1171.1	1020.1	879.4	827.1	817.6	816.1	816.8	815.4	817.6	816.1
22.5°	1266.1	1193.2	998.0	842.6	811.7	810.9	807.2	808.7	813.9	814.6	816.8
25°	1302.9	1201.3	965.6	808.7	800.6	799.1	803.6	809.5	813.9	814.6	818.3
27.5°	1333.1	1196.9	925.1	782.2	781.5	789.6	802.8	805.0	805.8	805.8	802.8
30°	1356.0	1187.3	873.5	752.7	756.4	776.3	788.8	788.8	782.9	781.5	785.9
32.5°	1361.1	1174.8	817.6	722.5	728.4	752.0	767.5	762.3	755.7	755.7	758.6
35°	1365.5	1157.8	772.6	681.3	690.1	718.1	732.9	722.5	715.2	713.0	712.2
37.5°	1364.1	1151.2	732.1	629.0	640.8	668.0	677.6	668.0	657.0	651.8	658.5
40°	1365.5	1146.8	681.3	571.6	583.3	599.5	612.1	604.7	594.4	581.1	587.8
42.5°	1374.4	1152.7	625.3	515.6	515.6	524.4	545.8	540.6	515.6	510.4	516.3
45°	1421.5	1184.4	569.3	459.6	451.5	457.4	479.5	457.4	441.9	441.9	447.1
47.5°	1535.7	1243.3	520.0	410.3	391.1	402.9	408.8	388.2	376.4	373.4	378.6
50°	1768.4	1361.1	490.5	369.7	346.2	355.0	351.3	350.6	338.8	340.3	343.2
52.5°	2122.0	1590.9	481.7	349.9	320.4	322.6	318.9	320.4	318.2	325.6	327.8
55°	2507.2	1833.3	492.7	352.8	302.7	287.3	288.7	296.1	304.9	316.7	318.9
57.5°	2795.2	1954.8	521.5	372.7	280.6	257.1	260.7	274.7	291.7	301.2	306.4
60°	3009.5	1940.1	563.5	377.8	254.1	229.8	236.4	257.1	271.8	279.9	285.0
62.5°	3079.5	1848.0	573.8	340.3	219.5	204.0	220.2	241.6	248.2	257.1	260.7
65°	3022.0	1717.6	498.6	276.2	193.0	184.9	208.4	224.6	233.5	237.9	238.6
66°	2954.3	1639.5	458.1	251.2	183.4	179.0	204.0	217.3	226.1	225.4	226.1
67.5°	2805.5	1476.0	392.6	215.8	169.4	170.1	196.7	205.5	208.4	206.2	206.2
70°	2299.5	1039.3	281.4	163.5	148.8	159.1	176.8	179.0	185.6	182.7	182.7
72.5°	1417.8	510.4	188.6	125.2	132.6	148.8	148.0	155.4	170.9	175.3	178.2
75°	696.8	207.0	124.5	106.1	118.6	124.5	123.0	141.4	163.5	182.7	189.3
77.5°	264.4	103.1	86.9	92.8	95.8	93.5	98.0	128.2	163.5	198.1	204.8
80°	81.8	71.4	68.5	76.6	72.2	68.5	73.7	106.1	138.5	150.3	150.3
82.5°	49.3	56.0	53.0	52.3	48.6	49.3	53.0	75.9	106.8	112.0	112.0
85°	34.6	36.8	30.2	28.7	28.0	27.3	27.3	44.2	63.3	62.6	64.8
87.5°	13.3	14.7	11.0	11.0	10.3	7.4	5.9	7.4	7.4	5.2	3.7
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)