

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: P1210171

Luminaire Tested: **ARCH2-40-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

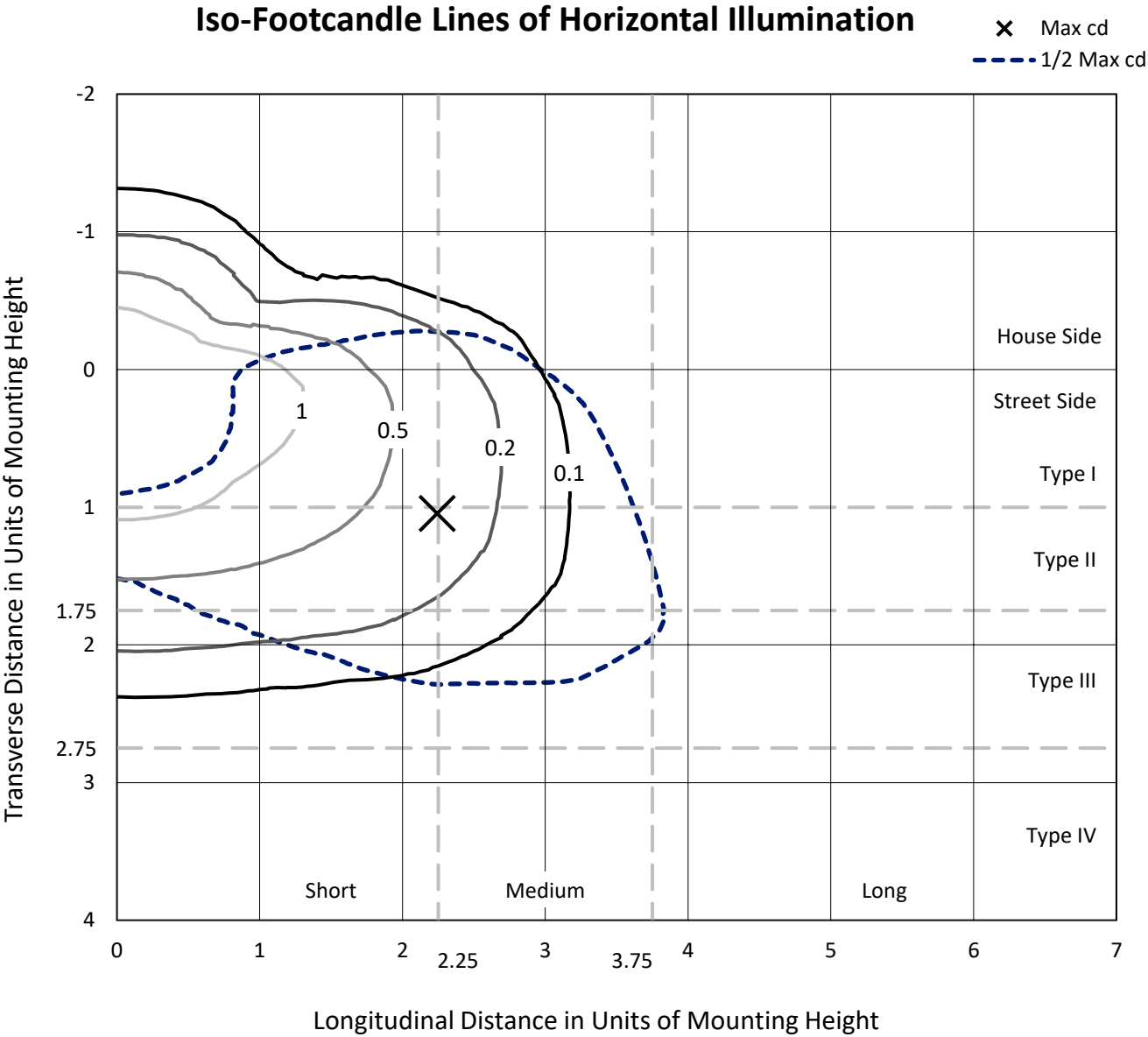
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6279 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 44.1
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



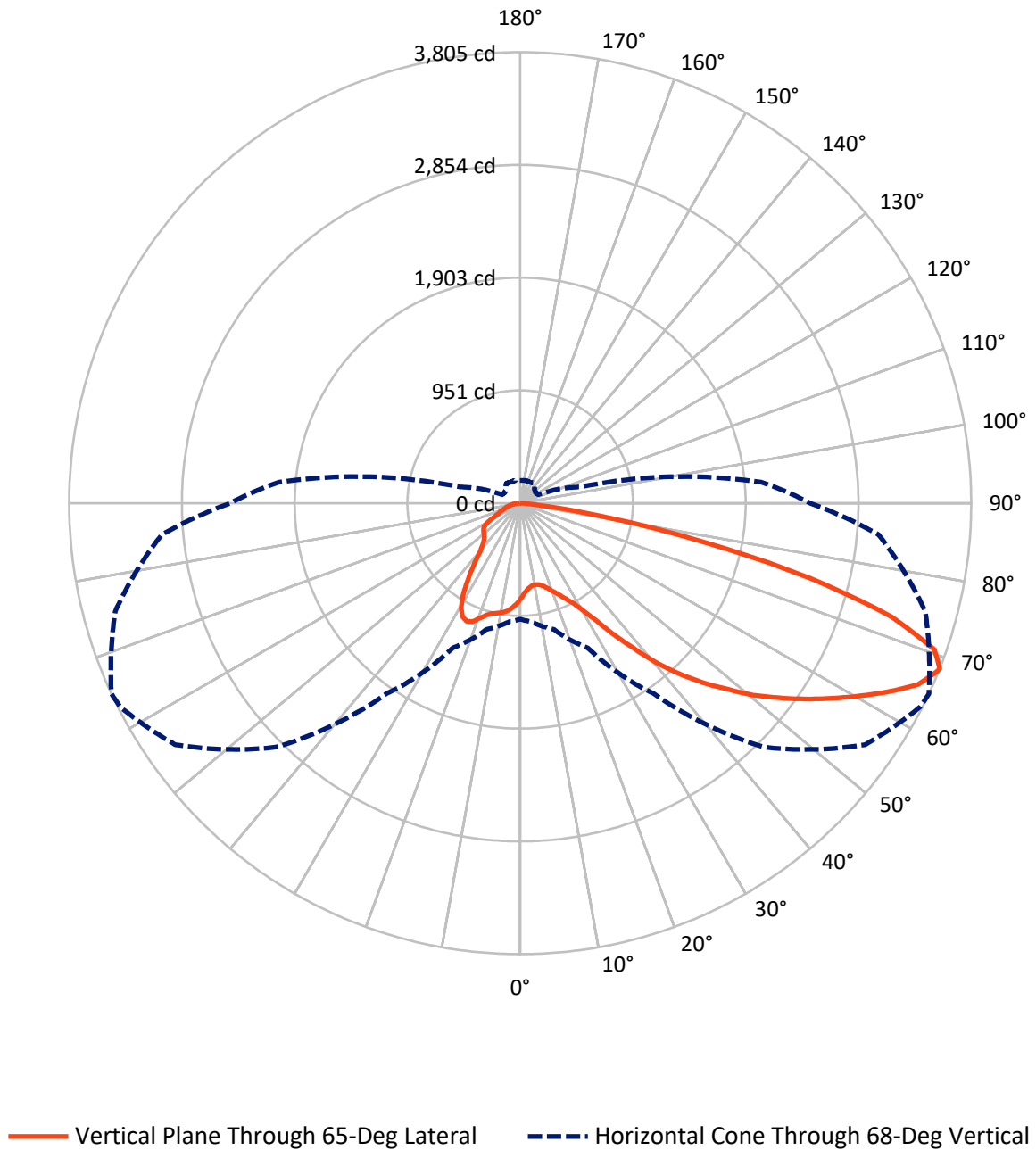
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Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1539.4	0.0	1539.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4739.6	0.0	4739.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	6279.0	0.0	6279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.7	1.2
10°-20°	249.7	4.0
20°-30°	451.9	7.2
30°-40°	710.9	11.3
40°-50°	1058.8	16.9
50°-60°	1388.9	22.1
60°-70°	1518.9	24.2
70°-80°	751.6	12.0
80°-90°	71.7	1.1
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°	6279.0	100.0
0°-180°	6279.0	100.0

Coefficient of Utilization



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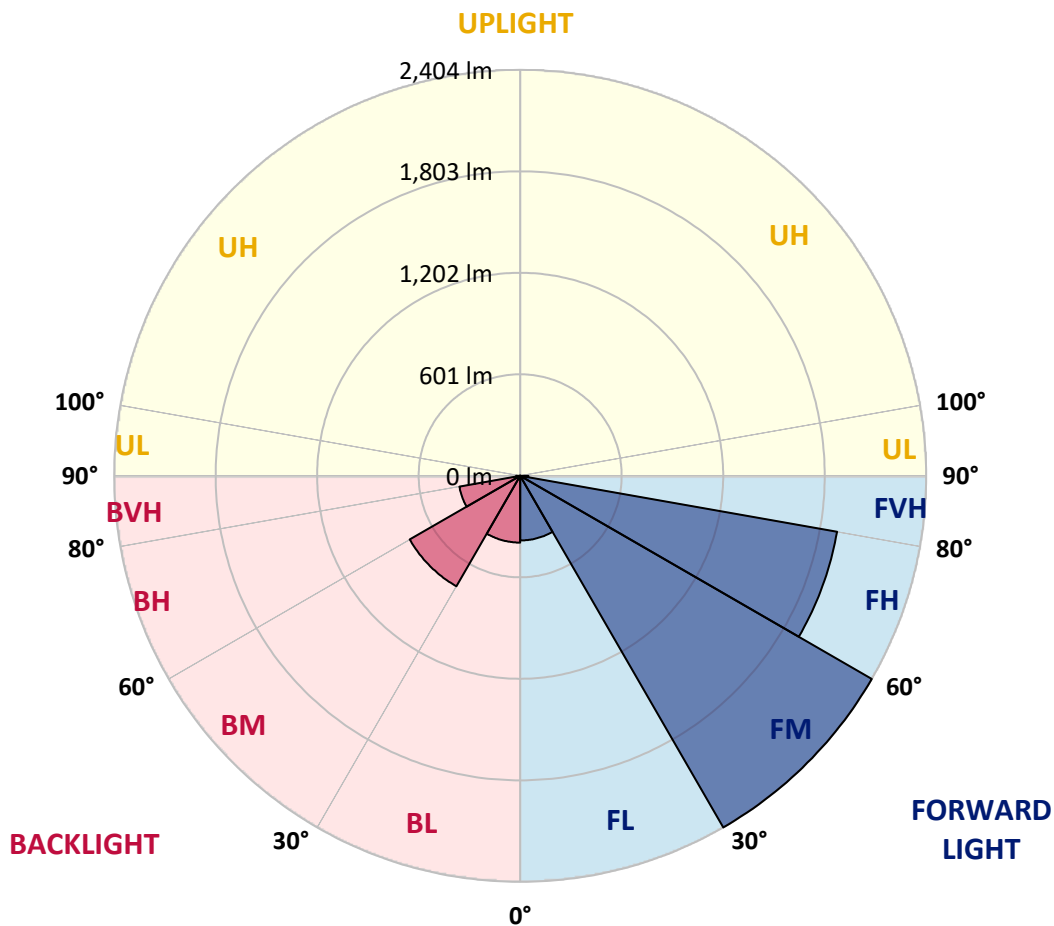
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	382.8	6.1			
FM	(30°-60°)	2403.5	38.3			
FH	(60°-80°)	1905.1	30.3			G2/5000
FVH	(80°-90°)	48.2	0.8			G1/100
BL	(0°-30°)	395.5	6.3	B1/500		
BM	(30°-60°)	755.1	12.0	B1/1000		
BH	(60°-80°)	365.4	5.8	B1/500		G1/500
BVH	(80°-90°)	23.5	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4
2.5°	700.4	698.7	702.8	706.8	715.7	726.3	740.8	753.0	754.6	777.3	795.1
5°	659.1	656.6	660.7	665.5	669.6	682.5	697.9	715.7	723.0	756.2	794.3
7.5°	663.1	662.3	663.9	662.3	662.3	668.0	678.5	696.3	704.4	744.1	798.3
10°	686.6	688.2	689.0	684.2	679.3	676.9	680.1	692.3	697.9	744.9	816.1
12.5°	725.5	727.9	728.7	719.8	713.3	702.8	697.1	702.0	706.0	753.0	841.2
15°	778.1	779.7	774.0	768.4	752.2	739.2	725.5	721.4	723.0	770.0	869.6
17.5°	839.6	837.2	837.2	823.4	802.4	782.1	759.5	756.2	756.2	797.5	910.1
20°	906.8	909.3	902.0	883.3	862.3	830.7	808.0	793.5	795.1	829.1	959.5
22.5°	1004.0	1008.0	988.6	961.9	929.5	893.1	860.7	837.2	838.0	870.4	1010.5
25°	1108.4	1110.1	1097.9	1062.3	1018.6	966.7	923.8	893.9	893.1	916.5	1076.0
27.5°	1215.3	1222.6	1198.3	1164.3	1123.8	1059.0	1002.4	961.9	955.4	987.0	1157.8
30°	1325.4	1334.3	1310.9	1277.7	1227.5	1172.4	1105.2	1058.2	1054.2	1096.3	1267.1
32.5°	1436.3	1438.8	1420.2	1392.6	1347.3	1295.5	1241.2	1189.4	1185.4	1254.2	1408.8
35°	1527.0	1534.3	1521.4	1514.9	1481.7	1433.9	1381.3	1351.3	1361.9	1450.1	1592.6
37.5°	1636.3	1643.6	1629.0	1627.4	1616.9	1575.6	1539.2	1541.6	1552.1	1672.0	1786.1
40°	1794.2	1802.3	1765.1	1748.9	1748.9	1708.4	1696.3	1753.7	1767.5	1890.6	1987.7
42.5°	1927.8	1940.8	1918.9	1908.4	1876.8	1848.5	1863.0	1944.0	1967.5	2099.5	2163.4
45°	1992.6	2002.3	2028.2	2059.0	2028.2	1978.8	2033.9	2125.4	2158.6	2292.2	2339.1
47.5°	2027.4	2036.3	2066.3	2148.9	2169.9	2128.6	2206.3	2320.5	2343.2	2483.2	2506.7
50°	2032.3	2060.6	2099.5	2182.1	2278.4	2284.1	2379.6	2518.9	2545.6	2671.1	2654.1
52.5°	1992.6	2003.9	2084.1	2223.3	2330.2	2427.4	2568.3	2709.1	2728.6	2847.6	2784.4
55°	1927.8	1944.0	2024.2	2213.6	2380.4	2563.4	2760.2	2896.2	2918.0	3019.2	2905.1
57.5°	1869.5	1877.6	1963.4	2185.3	2430.6	2699.4	2931.0	3091.3	3105.9	3169.8	2994.1
60°	1804.7	1813.7	1899.5	2124.6	2467.9	2802.3	3109.1	3288.1	3301.0	3328.5	3097.8
62.5°	1637.1	1660.6	1768.3	2024.2	2458.1	2919.7	3299.4	3482.4	3498.6	3468.6	3179.6
65°	1329.5	1362.7	1494.6	1796.7	2367.5	2995.8	3454.8	3661.3	3688.8	3573.9	3201.4
67.5°	1032.3	1055.8	1161.9	1425.8	2049.3	2957.7	3555.2	3784.4	3792.5	3556.9	3080.0
68°	978.9	1002.4	1103.6	1348.1	1961.0	2912.4	3552.8	3787.6	3805.4	3538.2	3033.0
70°	748.9	775.7	872.0	1068.0	1580.5	2624.1	3404.6	3709.9	3707.5	3313.2	2741.5
72.5°	468.0	483.4	549.8	673.6	1045.3	1996.6	2889.7	3271.9	3278.3	2701.0	2102.7
75°	297.1	297.1	293.9	326.3	536.0	1137.6	2148.0	2518.9	2523.7	1891.4	1325.4
77.5°	258.3	251.0	216.2	183.0	213.8	442.1	1271.2	1626.6	1599.9	1018.6	629.1
80°	217.8	205.7	177.3	147.4	137.6	138.5	488.2	825.9	790.2	366.8	208.9
82.5°	157.1	146.5	133.6	115.8	106.1	82.6	102.0	238.9	233.2	106.1	68.0
85°	85.0	76.9	75.3	76.1	64.0	51.0	42.9	52.6	52.6	46.2	38.9
87.5°	30.0	21.9	25.9	29.1	25.1	21.1	17.0	20.2	21.1	20.2	18.6
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°	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4	802.4
2.5°	805.6	813.7	833.1	850.2	862.3	872.8	878.5	880.9	886.6	887.4	885.8
5°	812.1	833.1	862.3	887.4	901.2	906.8	908.4	909.3	906.8	908.4	906.8
7.5°	829.1	855.8	897.1	919.0	921.4	912.5	913.3	910.1	913.3	916.5	916.5
10°	855.0	889.0	927.9	936.0	925.4	920.6	930.3	949.7	956.2	965.1	965.1
12.5°	889.0	929.5	957.0	949.7	940.0	956.2	984.6	1004.0	1010.5	1013.7	1011.3
15°	927.9	971.6	985.4	961.1	978.9	1013.7	1023.4	1012.1	995.9	988.6	992.7
17.5°	977.3	1013.7	1005.6	989.4	1029.9	1034.8	1003.2	966.7	940.8	931.1	937.6
20°	1029.1	1060.7	1023.4	1030.7	1055.8	1004.0	944.1	897.1	874.4	870.4	876.9
22.5°	1084.1	1104.4	1041.2	1078.5	1041.2	936.0	863.9	839.6	834.0	840.4	846.1
25°	1146.5	1144.1	1072.0	1093.1	987.0	852.6	809.7	808.0	808.0	812.1	820.2
27.5°	1216.9	1178.9	1102.8	1073.6	893.1	783.8	775.7	776.5	774.0	774.9	778.9
30°	1298.7	1225.8	1136.8	1009.7	787.8	731.9	728.7	726.3	720.6	719.0	720.6
32.5°	1401.5	1275.2	1171.6	904.4	695.5	678.5	676.9	663.9	650.2	648.5	654.2
35°	1531.9	1365.1	1189.4	772.4	619.4	618.6	612.9	592.7	574.9	574.9	570.8
37.5°	1680.9	1480.9	1196.7	643.7	556.2	560.3	544.1	518.2	504.4	496.3	498.8
40°	1833.1	1612.9	1195.9	531.1	501.2	502.0	489.8	458.3	424.3	404.0	408.9
42.5°	1979.6	1732.7	1174.8	471.2	456.7	454.2	444.5	401.6	373.3	357.1	357.9
45°	2097.0	1856.6	1142.4	435.6	416.2	420.2	398.4	372.4	346.5	332.0	331.2
47.5°	2214.4	1950.5	1090.6	413.7	386.2	378.9	370.0	352.2	332.8	316.6	317.4
50°	2321.3	2030.6	1042.0	399.2	358.7	340.1	341.7	331.2	314.2	299.6	298.8
52.5°	2396.6	2083.3	1015.3	391.1	325.5	305.2	310.9	305.2	289.1	278.5	277.7
55°	2471.9	2123.8	1024.2	380.5	289.1	272.9	282.6	281.0	272.0	268.8	269.6
57.5°	2532.6	2154.5	1055.8	361.1	254.2	244.5	260.7	255.9	249.4	250.2	250.2
60°	2591.7	2194.2	1093.1	316.6	224.3	225.1	240.5	231.6	227.5	234.8	235.6
62.5°	2653.3	2237.1	1062.3	251.8	198.4	204.0	221.8	214.6	216.2	226.7	229.9
65°	2646.0	2233.1	865.5	206.5	175.7	187.0	213.8	211.3	212.1	216.2	217.8
67.5°	2497.0	2090.6	595.1	175.7	159.5	173.3	207.3	197.6	198.4	195.9	196.7
68°	2446.8	2040.4	524.7	170.8	156.3	170.0	204.0	195.1	195.9	193.5	192.7
70°	2173.1	1747.3	332.0	150.6	144.9	161.1	187.8	184.6	183.8	182.2	182.2
72.5°	1656.6	1289.8	174.9	130.4	132.0	147.4	167.6	174.1	170.0	170.8	175.7
75°	1097.1	775.7	121.5	111.7	115.8	126.3	149.0	161.9	157.9	160.3	157.9
77.5°	580.5	417.8	97.2	94.7	94.7	102.0	123.1	143.3	143.3	141.7	139.3
80°	190.3	147.4	77.7	74.5	76.1	80.2	98.8	117.4	119.8	116.6	115.0
82.5°	64.0	68.0	58.3	54.2	55.9	59.1	74.5	89.9	90.7	84.2	82.6
85°	39.7	45.3	36.4	35.6	35.6	36.4	45.3	49.4	45.3	40.5	42.1
87.5°	18.6	22.7	17.0	14.6	12.1	10.5	8.1	3.2	3.2	1.6	1.6
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)