

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: P1210167

Luminaire Tested: **ARCH2-40-722-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210167
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: ARCH2-40-722-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5694 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

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



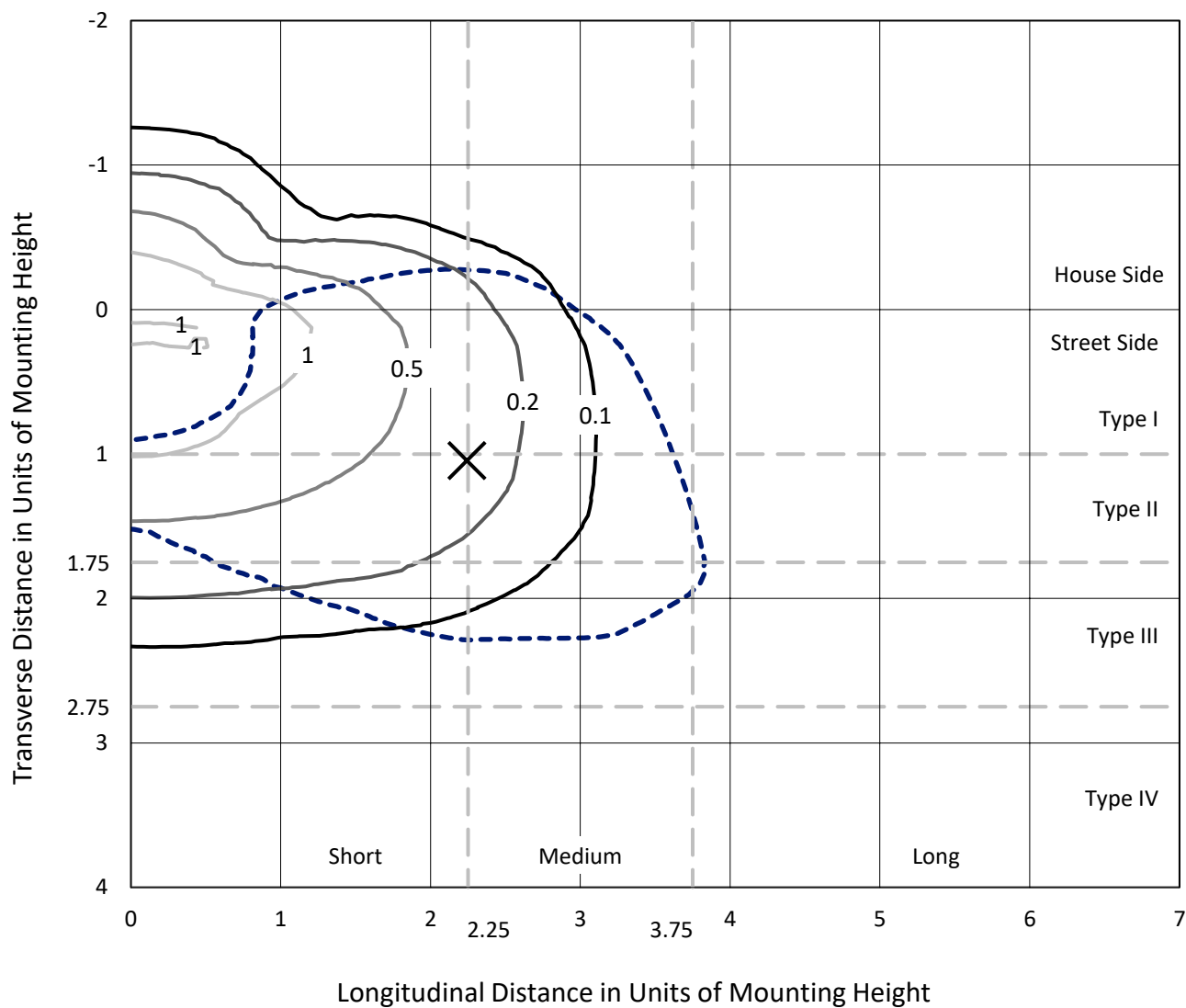
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

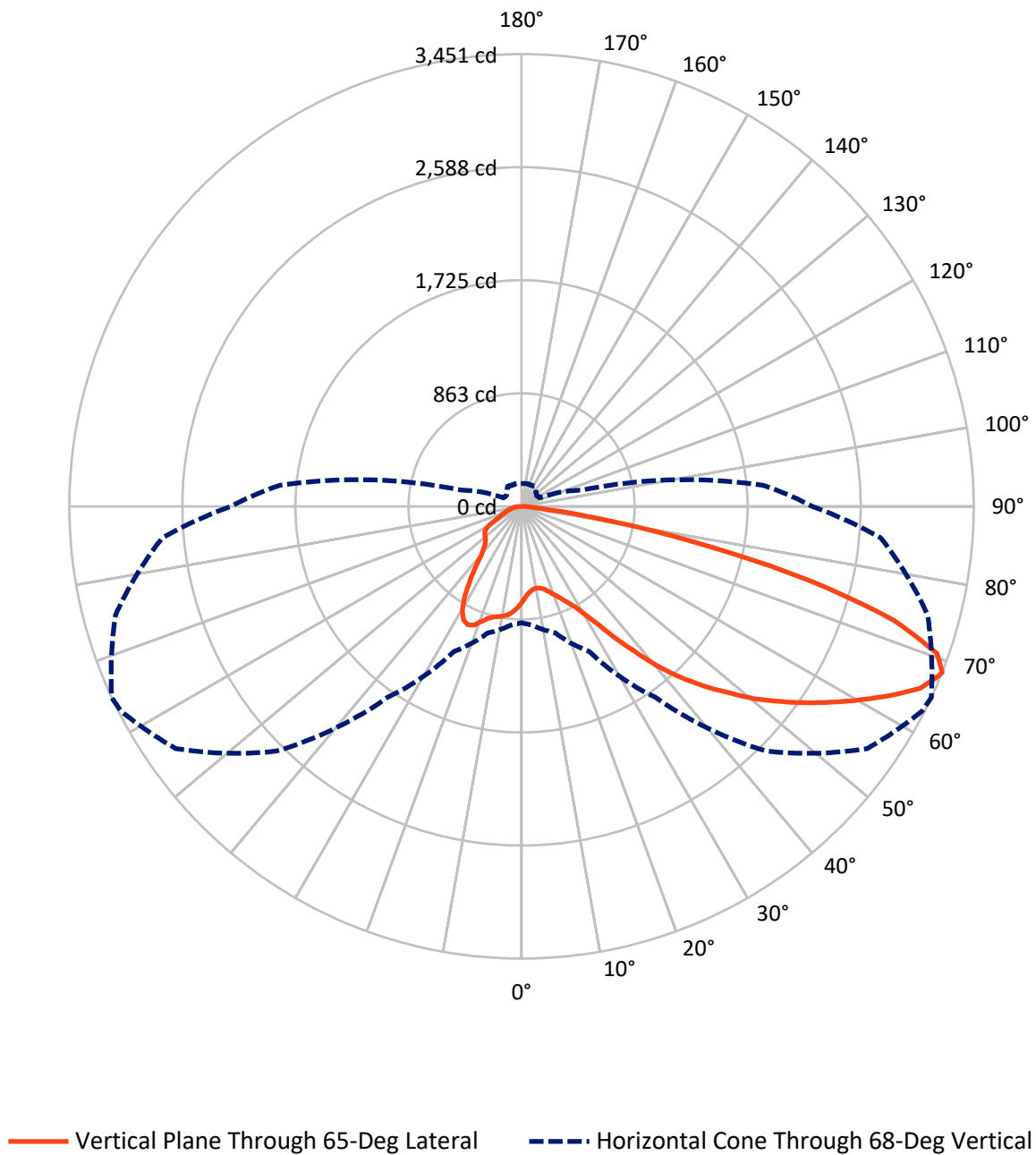


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.0	0.0	1396.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4298.0	0.0	4298.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	5694.0	0.0	5694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	1.2
10°-20°	226.4	4.0
20°-30°	409.8	7.2
30°-40°	644.7	11.3
40°-50°	960.1	16.9
50°-60°	1259.5	22.1
60°-70°	1377.4	24.2
70°-80°	681.6	12.0
80°-90°	65.0	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°	5694.0	100.0
0°-180°	5694.0	100.0

Coefficient of Utilization



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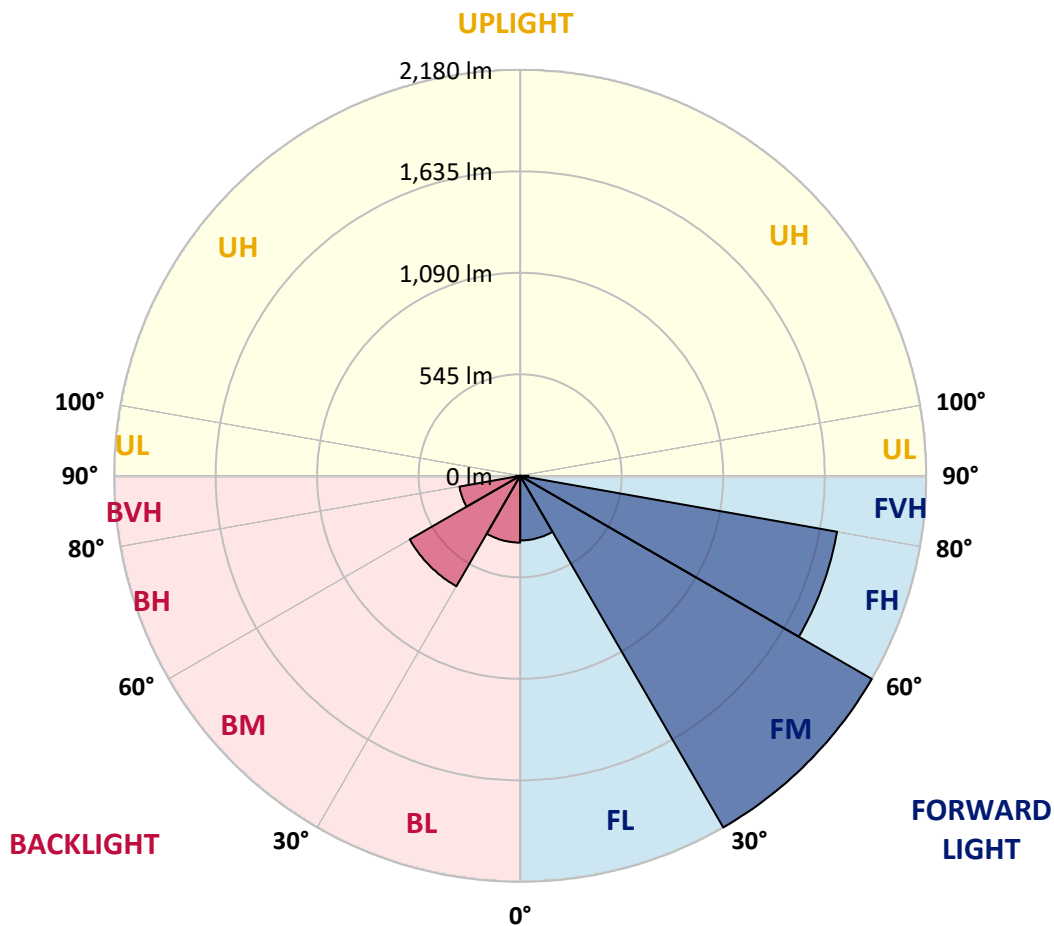
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.1	6.1			
FM	(30°-60°)	2179.6	38.3			
FH	(60°-80°)	1727.6	30.3			G1/1800
FVH	(80°-90°)	43.7	0.8			G1/100
BL	(0°-30°)	358.6	6.3	B1/500		
BM	(30°-60°)	684.7	12.0	B1/1000		
BH	(60°-80°)	331.3	5.8	B1/500		G1/500
BVH	(80°-90°)	21.3	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	635.1	633.6	637.3	641.0	649.1	658.6	671.8	682.8	684.3	704.9	721.0
5°	597.7	595.5	599.1	603.5	607.2	619.0	632.9	649.1	655.7	685.8	720.3
7.5°	601.3	600.6	602.1	600.6	600.6	605.7	615.3	631.4	638.8	674.8	724.0
10°	622.6	624.1	624.8	620.4	616.0	613.8	616.8	627.8	632.9	675.5	740.1
12.5°	657.9	660.1	660.8	652.7	646.9	637.3	632.2	636.6	640.3	682.8	762.9
15°	705.6	707.1	701.9	696.8	682.1	670.4	657.9	654.2	655.7	698.3	788.6
17.5°	761.4	759.2	759.2	746.7	727.6	709.3	688.7	685.8	685.8	723.2	825.3
20°	822.3	824.5	817.9	801.0	782.0	753.3	732.8	719.5	721.0	751.9	870.1
22.5°	910.4	914.1	896.5	872.3	842.9	809.9	780.5	759.2	759.9	789.3	916.3
25°	1005.2	1006.6	995.6	963.3	923.7	876.7	837.8	810.6	809.9	831.2	975.8
27.5°	1102.1	1108.7	1086.7	1055.8	1019.1	960.4	909.0	872.3	866.4	895.0	1050.0
30°	1201.9	1210.0	1188.7	1158.6	1113.1	1063.2	1002.2	959.6	956.0	994.2	1149.1
32.5°	1302.5	1304.7	1287.8	1262.9	1221.8	1174.8	1125.6	1078.6	1074.9	1137.3	1277.6
35°	1384.8	1391.4	1379.6	1373.7	1343.6	1300.3	1252.6	1225.4	1235.0	1315.0	1444.2
37.5°	1483.9	1490.5	1477.3	1475.8	1466.3	1428.8	1395.8	1398.0	1407.5	1516.2	1619.7
40°	1627.1	1634.4	1600.6	1585.9	1585.9	1549.2	1538.2	1590.3	1602.8	1714.4	1802.5
42.5°	1748.2	1760.0	1740.1	1730.6	1701.9	1676.3	1689.5	1762.9	1784.2	1903.9	1961.9
45°	1806.9	1815.8	1839.3	1867.2	1839.3	1794.5	1844.4	1927.4	1957.5	2078.6	2121.2
47.5°	1838.5	1846.6	1873.8	1948.7	1967.7	1930.3	2000.8	2104.3	2124.9	2251.9	2273.2
50°	1842.9	1868.6	1903.9	1978.8	2066.1	2071.3	2157.9	2284.2	2308.4	2422.2	2406.8
52.5°	1806.9	1817.2	1889.9	2016.2	2113.1	2201.2	2329.0	2456.7	2474.4	2582.3	2525.0
55°	1748.2	1762.9	1835.6	2007.4	2158.6	2324.6	2503.0	2626.3	2646.2	2738.0	2634.4
57.5°	1695.3	1702.7	1780.5	1981.7	2204.2	2447.9	2657.9	2803.3	2816.5	2874.5	2715.2
60°	1636.6	1644.7	1722.5	1926.6	2237.9	2541.2	2819.5	2981.7	2993.5	3018.4	2809.2
62.5°	1484.6	1505.9	1603.6	1835.6	2229.1	2647.6	2992.0	3157.9	3172.6	3145.5	2883.3
65°	1205.6	1235.7	1355.4	1629.3	2146.9	2716.7	3133.0	3320.2	3345.2	3240.9	2903.2
67.5°	936.1	957.4	1053.6	1293.0	1858.3	2682.1	3224.0	3431.8	3439.1	3225.5	2793.0
68°	887.7	909.0	1000.8	1222.5	1778.3	2641.0	3221.8	3434.7	3450.9	3208.6	2750.4
70°	679.2	703.4	790.8	968.5	1433.2	2379.6	3087.4	3364.3	3362.0	3004.5	2486.1
72.5°	424.4	438.3	498.5	610.9	947.9	1810.6	2620.5	2967.0	2972.9	2449.4	1906.8
75°	269.5	269.5	266.5	295.9	486.1	1031.6	1947.9	2284.2	2288.6	1715.2	1201.9
77.5°	234.2	227.6	196.0	165.9	193.8	400.9	1152.7	1475.1	1450.8	923.7	570.5
80°	197.5	186.5	160.8	133.6	124.8	125.6	442.7	748.9	716.6	332.6	189.4
82.5°	142.4	132.9	121.1	105.0	96.2	74.9	92.5	216.6	211.5	96.2	61.7
85°	77.1	69.8	68.3	69.0	58.0	46.3	38.9	47.7	47.7	41.9	35.2
87.5°	27.2	19.8	23.5	26.4	22.8	19.1	15.4	18.4	19.1	18.4	16.9
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°	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6	727.6
2.5°	730.6	737.9	755.5	770.9	782.0	791.5	796.6	798.8	804.0	804.7	803.2
5°	736.4	755.5	782.0	804.7	817.2	822.3	823.8	824.5	822.3	823.8	822.3
7.5°	751.9	776.1	813.5	833.4	835.6	827.5	828.2	825.3	828.2	831.2	831.2
10°	775.3	806.2	841.4	848.8	839.2	834.8	843.6	861.3	867.1	875.2	875.2
12.5°	806.2	842.9	867.9	861.3	852.4	867.1	892.8	910.4	916.3	919.3	917.1
15°	841.4	881.1	893.6	871.5	887.7	919.3	928.1	917.8	903.1	896.5	900.2
17.5°	886.2	919.3	911.9	897.2	933.9	938.3	909.7	876.7	853.2	844.4	850.2
20°	933.2	961.8	928.1	934.7	957.4	910.4	856.1	813.5	793.0	789.3	795.2
22.5°	983.1	1001.5	944.2	978.0	944.2	848.8	783.4	761.4	756.3	762.1	767.3
25°	1039.7	1037.5	972.1	991.2	895.0	773.1	734.2	732.8	732.8	736.4	743.8
27.5°	1103.6	1069.0	1000.0	973.6	809.9	710.7	703.4	704.1	701.9	702.7	706.3
30°	1177.7	1111.6	1030.9	915.6	714.4	663.7	660.8	658.6	653.5	652.0	653.5
32.5°	1271.0	1156.4	1062.4	820.1	630.7	615.3	613.8	602.1	589.6	588.1	593.3
35°	1389.2	1237.9	1078.6	700.5	561.7	561.0	555.8	537.5	521.3	521.3	517.6
37.5°	1524.3	1342.9	1085.2	583.7	504.4	508.1	493.4	469.9	457.4	450.1	452.3
40°	1662.3	1462.6	1084.5	481.7	454.5	455.2	444.2	415.6	384.7	366.4	370.8
42.5°	1795.2	1571.3	1065.4	427.3	414.1	411.9	403.1	364.2	338.5	323.8	324.5
45°	1901.7	1683.6	1036.0	395.0	377.4	381.1	361.2	337.7	314.3	301.0	300.3
47.5°	2008.1	1768.8	989.0	375.2	350.2	343.6	335.5	319.4	301.8	287.1	287.8
50°	2105.0	1841.5	945.0	362.0	325.3	308.4	309.8	300.3	284.9	271.7	270.9
52.5°	2173.3	1889.2	920.7	354.6	295.2	276.8	281.9	276.8	262.1	252.6	251.8
55°	2241.6	1925.9	928.8	345.1	262.1	247.4	256.2	254.8	246.7	243.8	244.5
57.5°	2296.7	1953.8	957.4	327.5	230.5	221.7	236.4	232.0	226.1	226.9	226.9
60°	2350.3	1989.8	991.2	287.1	203.4	204.1	218.1	210.0	206.3	212.9	213.7
62.5°	2406.1	2028.7	963.3	228.3	179.9	185.0	201.2	194.6	196.0	205.6	208.5
65°	2399.5	2025.0	784.9	187.2	159.3	169.6	193.8	191.6	192.4	196.0	197.5
67.5°	2264.4	1895.8	539.7	159.3	144.6	157.1	188.0	179.2	179.9	177.7	178.4
68°	2218.8	1850.3	475.8	154.9	141.7	154.2	185.0	176.9	177.7	175.5	174.7
70°	1970.7	1584.5	301.0	136.6	131.4	146.1	170.3	167.4	166.7	165.2	165.2
72.5°	1502.2	1169.6	158.6	118.2	119.7	133.6	152.0	157.9	154.2	154.9	159.3
75°	994.9	703.4	110.1	101.3	105.0	114.5	135.1	146.8	143.2	145.4	143.2
77.5°	526.4	378.9	88.1	85.9	85.9	92.5	111.6	130.0	130.0	128.5	126.3
80°	172.5	133.6	70.5	67.5	69.0	72.7	89.6	106.5	108.7	105.7	104.3
82.5°	58.0	61.7	52.9	49.2	50.7	53.6	67.5	81.5	82.2	76.4	74.9
85°	36.0	41.1	33.0	32.3	32.3	33.0	41.1	44.8	41.1	36.7	38.2
87.5°	16.9	20.6	15.4	13.2	11.0	9.5	7.3	2.9	2.9	1.5	1.5
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)