

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: P1209979

Luminaire Tested: **ARCH1-40-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209979
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: ARCH1-40-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5476 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - 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

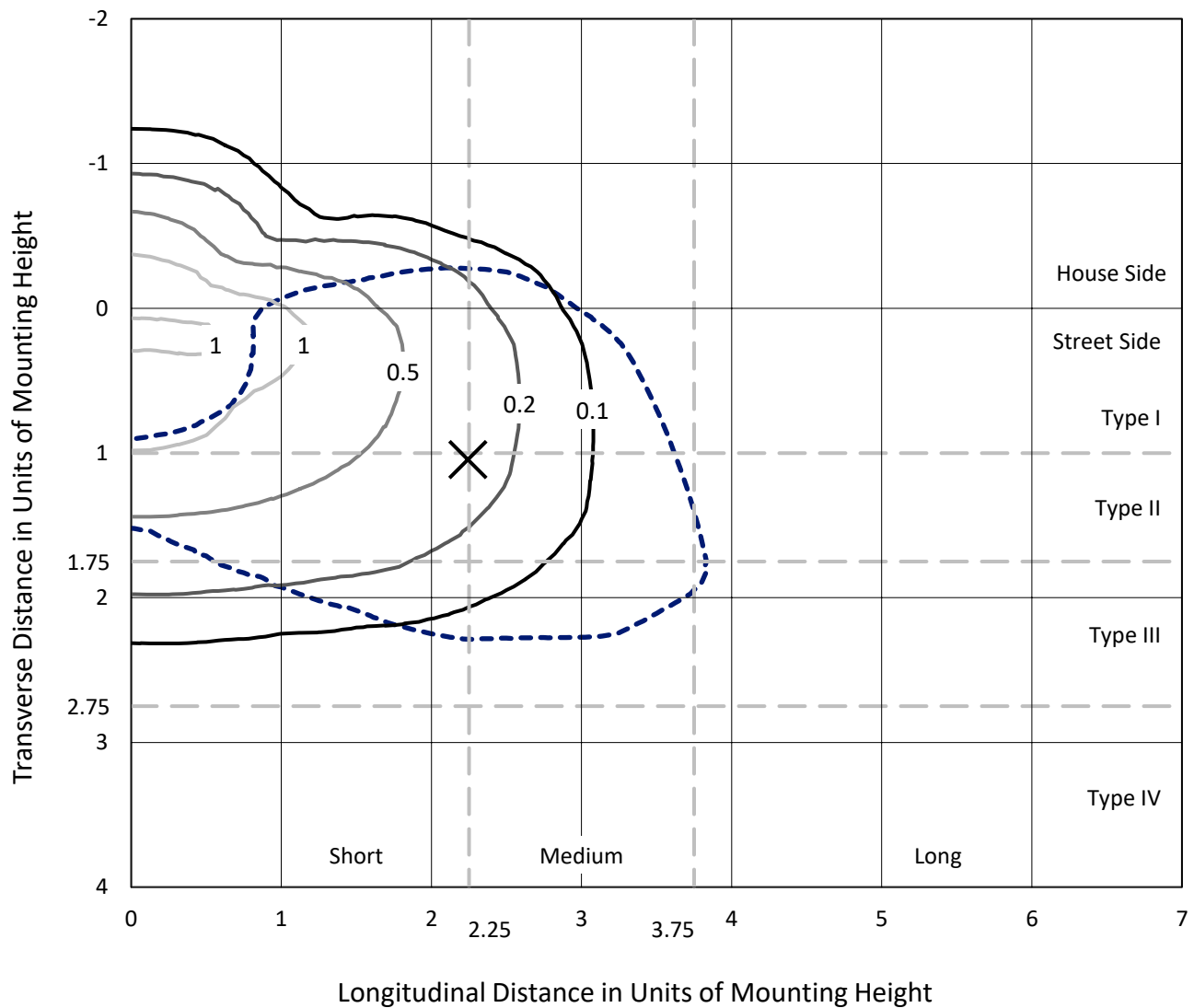


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

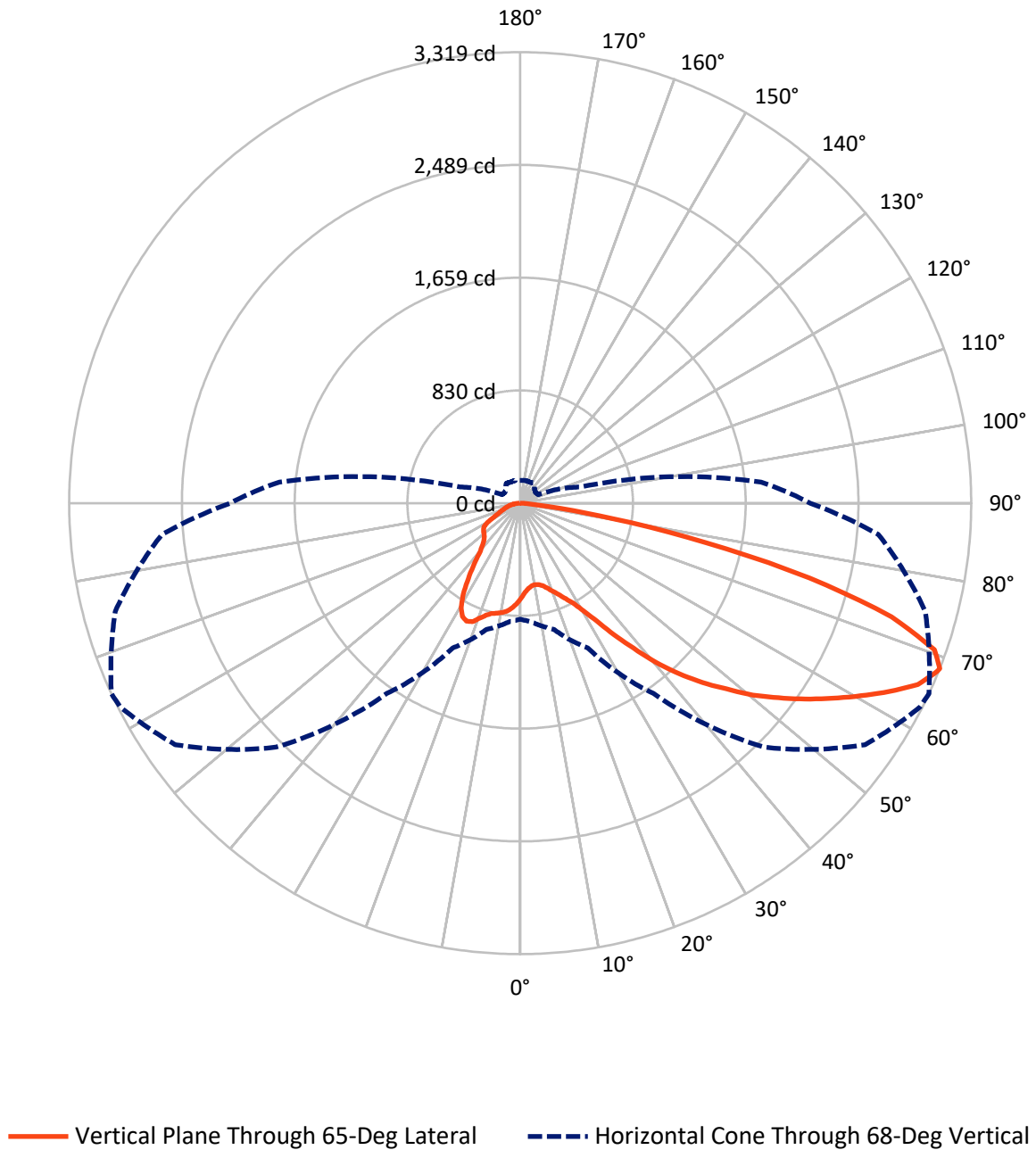


Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1342.6	0.0	1342.6
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4133.5	0.0	4133.5
	% Fixture	75.5	0.0	75.5
Total	Lumens	5476.0	0.0	5476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.2
10°-20°	217.7	4.0
20°-30°	394.1	7.2
30°-40°	620.0	11.3
40°-50°	923.4	16.9
50°-60°	1211.3	22.1
60°-70°	1324.6	24.2
70°-80°	655.5	12.0
80°-90°	62.5	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°	5476.0	100.0
0°-180°	5476.0	100.0

Coefficient of Utilization



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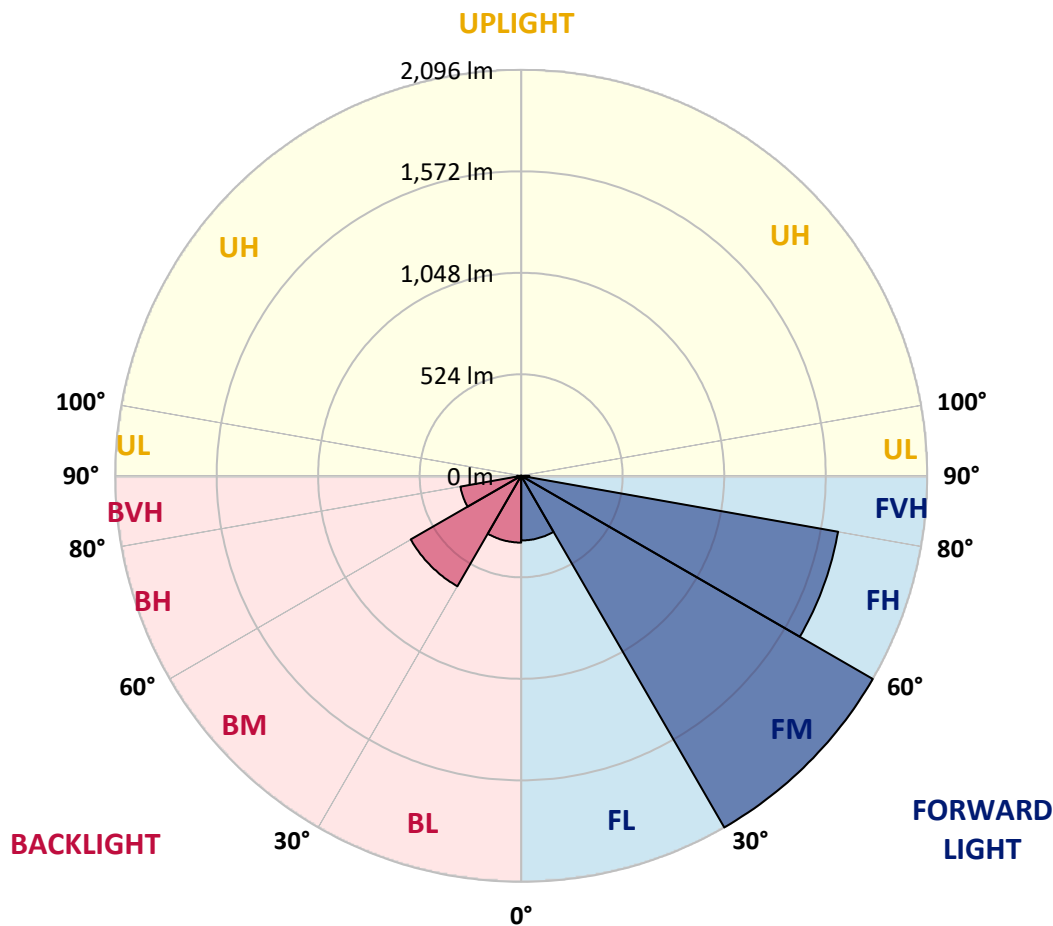
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.8	6.1			
FM	(30°-60°)	2096.1	38.3			
FH	(60°-80°)	1661.4	30.3			G1/1800
FVH	(80°-90°)	42.1	0.8			G1/100
BL	(0°-30°)	344.9	6.3	B1/500		
BM	(30°-60°)	658.5	12.0	B1/1000		
BH	(60°-80°)	318.7	5.8	B1/500		G1/500
BVH	(80°-90°)	20.5	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
2.5°	610.8	609.4	612.9	616.4	624.2	633.4	646.1	656.7	658.1	677.9	693.4
5°	574.8	572.7	576.2	580.4	584.0	595.3	608.7	624.2	630.6	659.5	692.7
7.5°	578.3	577.6	579.0	577.6	577.6	582.6	591.7	607.3	614.3	648.9	696.2
10°	598.8	600.2	600.9	596.7	592.4	590.3	593.1	603.7	608.7	649.6	711.8
12.5°	632.7	634.8	635.5	627.7	622.1	612.9	608.0	612.2	615.7	656.7	733.7
15°	678.6	680.0	675.1	670.1	656.0	644.7	632.7	629.2	630.6	671.5	758.4
17.5°	732.2	730.1	730.1	718.1	699.8	682.1	662.3	659.5	659.5	695.5	793.7
20°	790.9	793.0	786.6	770.4	752.0	724.5	704.7	692.0	693.4	723.1	836.8
22.5°	875.6	879.1	862.2	838.9	810.6	778.9	750.6	730.1	730.8	759.1	881.2
25°	966.7	968.1	957.5	926.4	888.3	843.1	805.7	779.6	778.9	799.3	938.4
27.5°	1059.9	1066.2	1045.1	1015.4	980.1	923.6	874.2	838.9	833.2	860.8	1009.8
30°	1155.9	1163.7	1143.2	1114.3	1070.5	1022.5	963.9	922.9	919.4	956.1	1105.1
32.5°	1252.7	1254.8	1238.5	1214.5	1175.0	1129.8	1082.5	1037.3	1033.8	1093.8	1228.7
35°	1331.7	1338.1	1326.8	1321.2	1292.2	1250.5	1204.6	1178.5	1187.7	1264.7	1388.9
37.5°	1427.1	1433.4	1420.7	1419.3	1410.1	1374.1	1342.3	1344.5	1353.6	1458.1	1557.7
40°	1564.8	1571.8	1539.3	1525.2	1525.2	1489.9	1479.3	1529.5	1541.5	1648.8	1733.5
42.5°	1681.3	1692.6	1673.5	1664.3	1636.8	1612.1	1624.8	1695.4	1715.9	1831.0	1886.8
45°	1737.8	1746.2	1768.8	1795.7	1768.8	1725.8	1773.8	1853.6	1882.5	1999.0	2040.0
47.5°	1768.1	1775.9	1802.0	1874.0	1892.4	1856.4	1924.2	2023.7	2043.5	2165.7	2186.2
50°	1772.4	1797.1	1831.0	1903.0	1987.0	1992.0	2075.3	2196.7	2220.0	2329.5	2314.7
52.5°	1737.8	1747.7	1817.6	1939.0	2032.2	2117.0	2239.8	2362.7	2379.6	2483.4	2428.4
55°	1681.3	1695.4	1765.3	1930.5	2076.0	2235.6	2407.2	2525.8	2544.9	2633.1	2533.6
57.5°	1630.4	1637.5	1712.3	1905.8	2119.8	2354.2	2556.2	2696.0	2708.7	2764.5	2611.2
60°	1573.9	1581.7	1656.6	1852.9	2152.3	2443.9	2711.5	2867.6	2878.9	2902.9	2701.6
62.5°	1427.8	1448.3	1542.2	1765.3	2143.8	2546.3	2877.4	3037.0	3051.2	3025.0	2772.9
65°	1159.5	1188.4	1303.5	1566.9	2064.7	2612.6	3013.0	3193.1	3217.1	3116.8	2792.0
67.5°	900.3	920.8	1013.3	1243.5	1787.2	2579.5	3100.6	3300.4	3307.5	3102.0	2686.1
68°	853.7	874.2	962.4	1175.7	1710.2	2539.9	3098.5	3303.2	3318.8	3085.8	2645.1
70°	653.2	676.5	760.5	931.4	1378.3	2288.5	2969.2	3235.4	3233.3	2889.4	2390.9
72.5°	408.1	421.6	479.5	587.5	911.6	1741.3	2520.1	2853.4	2859.1	2355.6	1833.8
75°	259.1	259.1	256.3	284.6	467.5	992.1	1873.3	2196.7	2201.0	1649.5	1155.9
77.5°	225.3	218.9	188.5	159.6	186.4	385.5	1108.6	1418.6	1395.3	888.3	548.7
80°	189.9	179.4	154.6	128.5	120.0	120.7	425.8	720.2	689.2	319.9	182.2
82.5°	137.0	127.8	116.5	101.0	92.5	72.0	89.0	208.3	203.4	92.5	59.3
85°	74.1	67.1	65.7	66.4	55.8	44.5	37.4	45.9	45.9	40.2	33.9
87.5°	26.1	19.1	22.6	25.4	21.9	18.4	14.8	17.7	18.4	17.7	16.2
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°	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8	699.8
2.5°	702.6	709.7	726.6	741.4	752.0	761.2	766.1	768.3	773.2	773.9	772.5
5°	708.2	726.6	752.0	773.9	785.9	790.9	792.3	793.0	790.9	792.3	790.9
7.5°	723.1	746.4	782.4	801.4	803.6	795.8	796.5	793.7	796.5	799.3	799.3
10°	745.7	775.3	809.2	816.3	807.1	802.9	811.3	828.3	833.9	841.7	841.7
12.5°	775.3	810.6	834.6	828.3	819.8	833.9	858.6	875.6	881.2	884.1	881.9
15°	809.2	847.3	859.3	838.2	853.7	884.1	892.5	882.7	868.5	862.2	865.7
17.5°	852.3	884.1	877.0	862.9	898.2	902.4	874.9	843.1	820.5	812.0	817.7
20°	897.5	925.0	892.5	898.9	920.8	875.6	823.3	782.4	762.6	759.1	764.7
22.5°	945.5	963.1	908.1	940.6	908.1	816.3	753.4	732.2	727.3	733.0	737.9
25°	999.9	997.7	934.9	953.3	860.8	743.5	706.1	704.7	704.7	708.2	715.3
27.5°	1061.3	1028.1	961.7	936.3	778.9	683.5	676.5	677.2	675.1	675.8	679.3
30°	1132.6	1069.1	991.4	880.5	687.1	638.3	635.5	633.4	628.4	627.0	628.4
32.5°	1222.3	1112.1	1021.8	788.7	606.6	591.7	590.3	579.0	567.0	565.6	570.5
35°	1336.0	1190.5	1037.3	673.6	540.2	539.5	534.5	516.9	501.3	501.3	497.8
37.5°	1465.9	1291.5	1043.6	561.4	485.1	488.6	474.5	451.9	439.9	432.9	435.0
40°	1598.7	1406.6	1042.9	463.2	437.1	437.8	427.2	399.7	370.0	352.4	356.6
42.5°	1726.5	1511.1	1024.6	411.0	398.3	396.1	387.7	350.2	325.5	311.4	312.1
45°	1828.9	1619.1	996.3	379.9	362.9	366.5	347.4	324.8	302.2	289.5	288.8
47.5°	1931.2	1701.0	951.1	360.8	336.8	330.5	322.7	307.2	290.2	276.1	276.8
50°	2024.4	1771.0	908.8	348.1	312.8	296.6	298.0	288.8	274.0	261.3	260.6
52.5°	2090.1	1816.9	885.5	341.1	283.9	266.2	271.2	266.2	252.1	242.9	242.2
55°	2155.8	1852.2	893.2	331.9	252.1	238.0	246.4	245.0	237.3	234.4	235.1
57.5°	2208.7	1879.0	920.8	314.9	221.7	213.2	227.4	223.1	217.5	218.2	218.2
60°	2260.3	1913.6	953.3	276.1	195.6	196.3	209.7	202.0	198.4	204.8	205.5
62.5°	2314.0	1951.0	926.4	219.6	173.0	177.9	193.5	187.1	188.5	197.7	200.5
65°	2307.6	1947.5	754.8	180.1	153.2	163.1	186.4	184.3	185.0	188.5	189.9
67.5°	2177.7	1823.2	519.0	153.2	139.1	151.1	180.8	172.3	173.0	170.9	171.6
68°	2133.9	1779.4	457.6	149.0	136.3	148.3	177.9	170.2	170.9	168.8	168.1
70°	1895.2	1523.8	289.5	131.3	126.4	140.5	163.8	161.0	160.3	158.9	158.9
72.5°	1444.7	1124.9	152.5	113.7	115.1	128.5	146.2	151.8	148.3	149.0	153.2
75°	956.8	676.5	105.9	97.4	101.0	110.2	129.9	141.2	137.7	139.8	137.7
77.5°	506.3	364.4	84.7	82.6	82.6	89.0	107.3	125.0	125.0	123.6	121.5
80°	165.9	128.5	67.8	65.0	66.4	69.9	86.1	102.4	104.5	101.7	100.3
82.5°	55.8	59.3	50.8	47.3	48.7	51.5	65.0	78.4	79.1	73.4	72.0
85°	34.6	39.5	31.8	31.1	31.1	31.8	39.5	43.1	39.5	35.3	36.7
87.5°	16.2	19.8	14.8	12.7	10.6	9.2	7.1	2.8	2.8	1.4	1.4
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)