

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: P1209989

Luminaire Tested: **ARCH1-40-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209989
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: ARCH1-40-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6010 lumens
Efficiency: N/A
Efficacy: 139.8 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

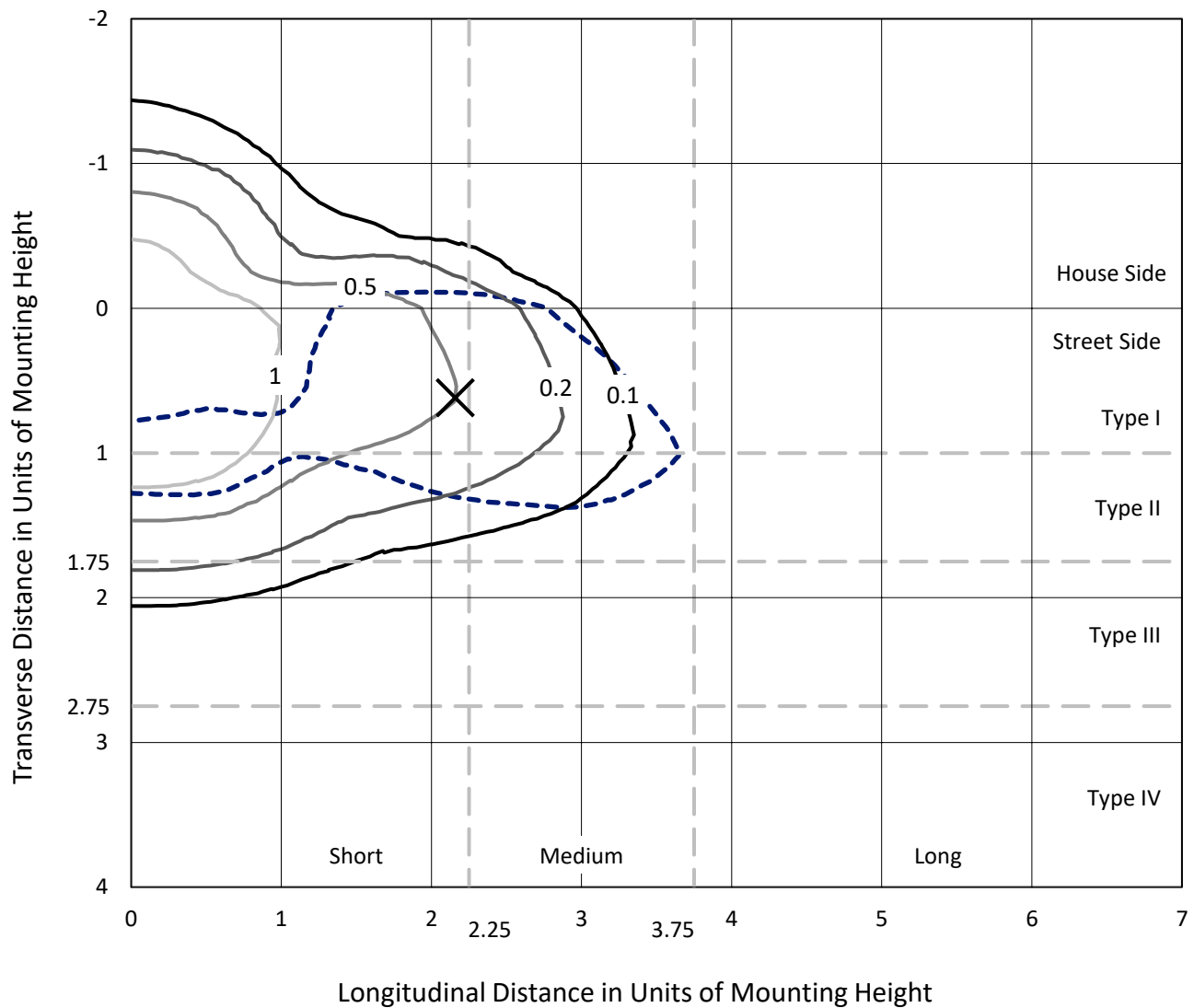


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Iso-Footcandle Lines of Horizontal Illumination

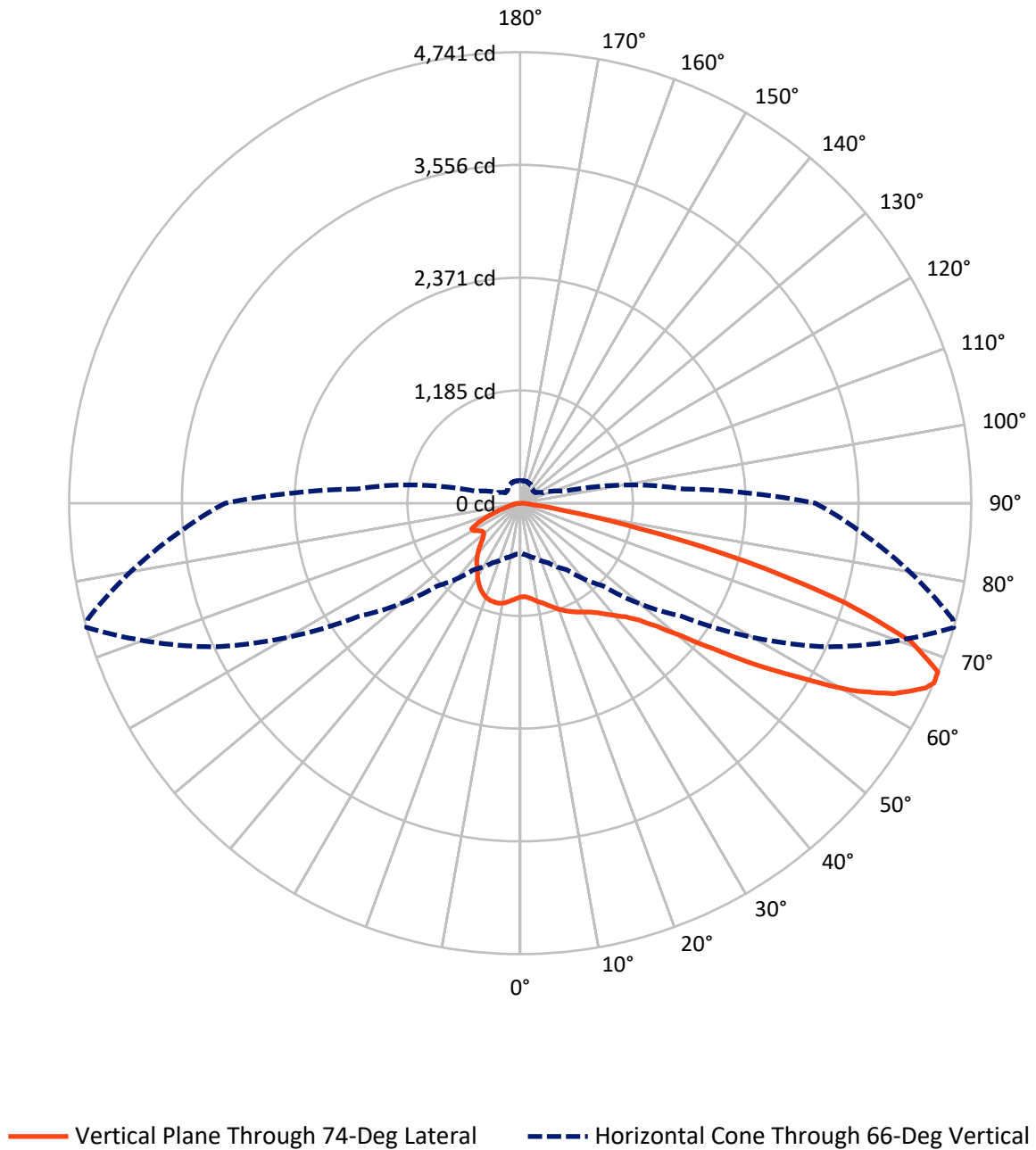
✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.6	0.0	1463.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4546.4	0.0	4546.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	6010.0	0.0	6010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.0	1.6
10°-20°	289.0	4.8
20°-30°	542.3	9.0
30°-40°	834.2	13.9
40°-50°	1122.1	18.7
50°-60°	1327.1	22.1
60°-70°	1227.6	20.4
70°-80°	516.4	8.6
80°-90°	57.1	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°	6010.0	100.0
0°-180°	6010.0	100.0

Coefficient of Utilization



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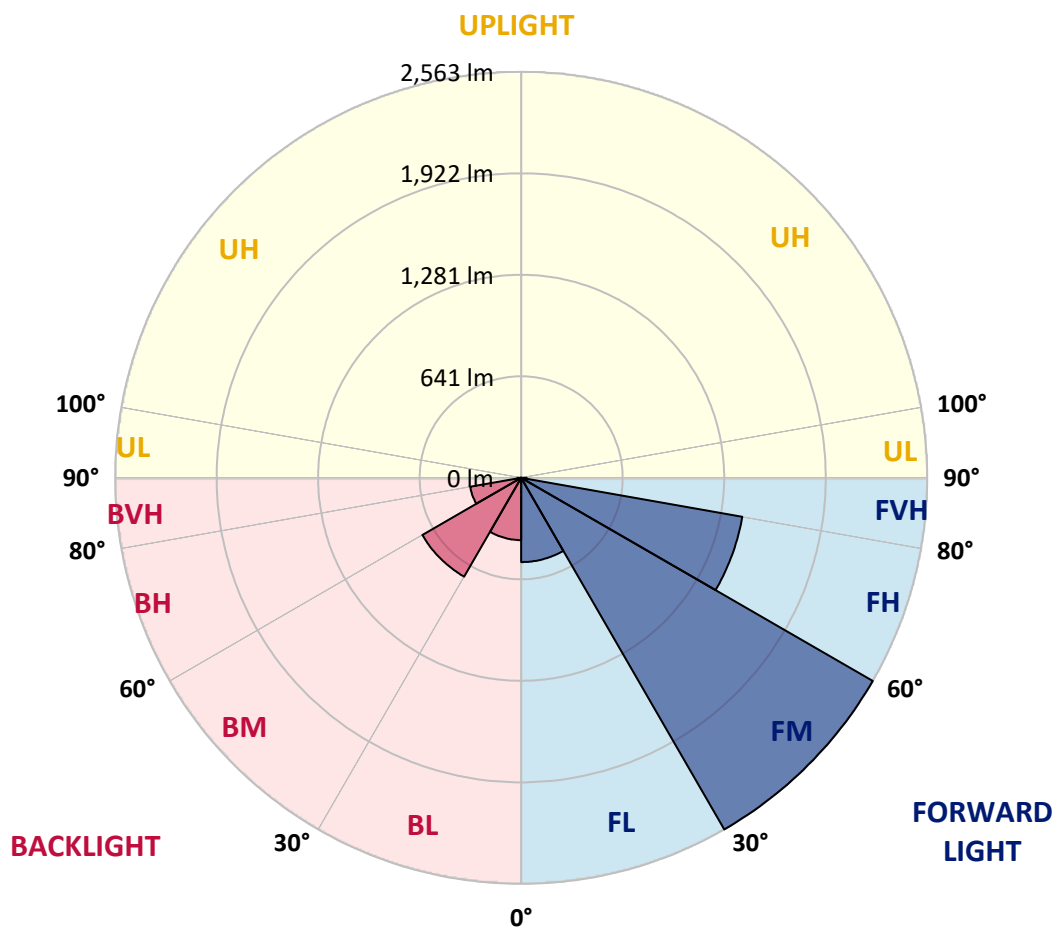
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	532.0	8.9			
FM	(30°-60°)	2562.9	42.6			
FH	(60°-80°)	1417.3	23.6			G1/1800
FVH	(80°-90°)	34.2	0.6			G1/100
BL	(0°-30°)	393.4	6.5	B1/500		
BM	(30°-60°)	720.5	12.0	B1/1000		
BH	(60°-80°)	326.7	5.4	B1/500		G1/500
BVH	(80°-90°)	23.0	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°	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2
2.5°	982.1	980.6	983.7	988.3	990.7	986.8	985.2	984.5	984.5	982.1	986.0
5°	935.7	935.0	941.9	950.4	966.7	978.3	993.7	1003.0	999.9	995.3	998.4
7.5°	875.4	873.9	882.4	898.6	921.1	946.6	984.5	1013.9	1025.5	1023.9	1023.1
10°	898.6	897.1	896.3	891.7	899.4	924.1	963.6	1015.4	1054.8	1055.6	1056.4
12.5°	979.1	982.9	979.1	964.4	947.3	938.1	961.3	1019.3	1079.6	1084.2	1103.6
15°	1088.9	1085.0	1077.3	1060.3	1034.0	1006.1	989.1	1037.1	1115.2	1119.0	1161.6
17.5°	1185.5	1188.6	1184.0	1167.7	1136.8	1100.5	1048.7	1068.0	1153.1	1163.9	1223.4
20°	1290.7	1303.1	1296.9	1276.8	1251.3	1197.1	1132.2	1112.8	1194.8	1202.5	1287.6
22.5°	1412.1	1425.3	1413.7	1394.3	1373.5	1306.9	1223.4	1167.7	1229.6	1245.9	1349.5
25°	1557.5	1569.9	1559.1	1528.9	1502.6	1421.4	1321.6	1229.6	1263.6	1281.4	1399.8
27.5°	1672.7	1682.0	1692.1	1674.3	1634.1	1549.8	1423.7	1293.8	1297.7	1316.2	1446.2
30°	1775.6	1798.8	1807.3	1809.6	1775.6	1681.2	1528.1	1360.3	1327.1	1346.4	1492.6
32.5°	1916.3	1951.1	1937.2	1951.1	1931.0	1805.0	1636.4	1429.1	1365.0	1382.7	1536.6
35°	2122.1	2149.9	2113.5	2102.7	2070.2	1930.3	1740.8	1500.3	1415.2	1434.6	1578.4
37.5°	2343.2	2374.9	2322.3	2279.0	2217.2	2054.0	1830.5	1593.9	1484.8	1500.3	1617.1
40°	2536.6	2562.9	2517.2	2460.0	2356.4	2163.0	1907.8	1659.6	1554.4	1573.8	1661.9
42.5°	2715.2	2732.2	2681.2	2626.3	2487.8	2261.3	1991.4	1729.2	1635.6	1654.2	1698.3
45°	2896.2	2909.3	2838.2	2760.1	2597.7	2351.0	2083.4	1826.6	1754.7	1779.5	1757.0
47.5°	2928.6	2932.5	2920.1	2867.6	2684.3	2436.8	2197.1	1957.3	1936.5	1963.5	1858.3
50°	2703.6	2738.4	2815.0	2866.8	2719.1	2508.7	2310.7	2144.5	2187.0	2221.8	2068.7
52.5°	2266.7	2299.9	2477.0	2673.4	2635.6	2525.0	2432.9	2381.9	2540.4	2582.2	2354.8
55°	1805.8	1835.1	2022.3	2305.3	2365.7	2450.7	2563.6	2685.0	2991.3	3019.1	2668.8
57.5°	1487.1	1503.4	1637.2	1909.4	2006.1	2213.3	2634.0	3045.4	3449.9	3492.4	2941.8
60°	1219.6	1237.3	1337.1	1561.4	1689.8	1873.8	2578.3	3401.2	3997.4	3997.4	3292.1
62.5°	918.0	933.4	1026.2	1201.8	1417.5	1586.1	2400.5	3637.0	4410.4	4391.8	3545.8
65°	630.3	642.6	709.9	826.7	1020.8	1351.8	2157.6	3640.1	4684.1	4659.4	3654.0
66°	529.0	539.8	597.0	691.4	854.5	1226.5	2071.8	3574.4	4741.4	4706.6	3608.4
67.5°	417.6	425.3	463.2	518.9	626.4	993.0	1936.5	3388.0	4736.0	4715.1	3492.4
70°	298.5	303.9	331.8	343.4	370.4	574.6	1538.2	2967.3	4356.2	4362.4	3036.1
72.5°	231.2	239.7	256.7	259.1	252.9	305.5	933.4	2475.5	3563.6	3561.2	2253.5
75°	186.4	191.0	199.5	204.2	202.6	197.2	395.2	1846.7	2453.0	2481.7	1262.1
77.5°	146.9	146.2	153.9	160.1	164.7	154.7	181.0	1082.7	1286.1	1249.7	474.1
80°	108.3	108.3	119.1	121.4	128.4	129.9	120.6	417.6	441.6	401.4	123.0
82.5°	71.1	71.1	82.7	84.3	91.3	101.3	87.4	125.3	122.2	116.0	55.7
85°	38.7	37.1	41.0	46.4	50.3	59.5	52.6	62.6	64.2	63.4	37.1
87.5°	7.7	7.0	10.8	12.4	13.9	18.6	17.0	25.5	35.6	34.8	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°	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2	985.2
2.5°	991.4	990.7	999.2	1009.2	1020.8	1027.8	1030.9	1036.3	1032.4	1034.0	1038.6
5°	1006.1	1008.4	1020.8	1034.0	1039.4	1035.5	1027.0	1023.9	1016.9	1015.4	1013.9
7.5°	1027.8	1031.6	1044.0	1047.1	1030.9	1003.8	984.5	973.6	962.0	958.9	957.4
10°	1063.3	1065.7	1068.8	1037.1	996.8	960.5	936.5	926.5	918.7	912.5	914.1
12.5°	1108.2	1106.7	1082.7	1016.9	959.7	922.6	906.4	900.2	894.8	890.9	890.1
15°	1164.7	1153.8	1085.0	989.1	924.9	894.0	882.4	880.1	873.9	873.9	873.1
17.5°	1221.9	1194.0	1083.5	959.7	891.7	874.7	867.7	866.1	864.6	863.8	866.1
20°	1279.1	1229.6	1071.1	923.4	868.5	858.4	856.9	857.6	856.1	858.4	856.9
22.5°	1329.4	1252.8	1047.9	884.7	852.2	851.5	847.6	849.1	854.5	855.3	857.6
25°	1368.0	1261.3	1013.9	849.1	840.6	839.1	843.7	849.9	854.5	855.3	859.2
27.5°	1399.8	1256.7	971.3	821.3	820.5	829.0	842.9	845.3	846.0	846.0	842.9
30°	1423.7	1246.6	917.2	790.4	794.2	815.1	828.3	828.3	822.1	820.5	825.2
32.5°	1429.1	1233.5	858.4	758.6	764.8	789.6	805.8	800.4	793.4	793.4	796.5
35°	1433.8	1215.7	811.2	715.3	724.6	754.0	769.5	758.6	750.9	748.6	747.8
37.5°	1432.2	1208.7	768.7	660.4	672.8	701.4	711.5	701.4	689.8	684.4	691.4
40°	1433.8	1204.1	715.3	600.1	612.5	629.5	642.6	634.9	624.1	610.2	617.1
42.5°	1443.1	1210.3	656.6	541.3	541.3	550.6	573.0	567.6	541.3	535.9	542.1
45°	1492.6	1243.5	597.8	482.6	474.1	480.2	503.4	480.2	464.0	464.0	469.4
47.5°	1612.4	1305.4	546.0	430.8	410.6	423.0	429.2	407.6	395.2	392.1	397.5
50°	1856.8	1429.1	515.0	388.2	363.5	372.8	368.9	368.1	355.7	357.3	360.4
52.5°	2228.0	1670.4	505.8	367.3	336.4	338.7	334.9	336.4	334.1	341.8	344.1
55°	2632.5	1924.9	517.4	370.4	317.8	301.6	303.2	310.9	320.2	332.5	334.9
57.5°	2934.8	2052.5	547.5	391.3	294.6	269.9	273.8	288.5	306.2	316.3	321.7
60°	3159.9	2037.0	591.6	396.7	266.8	241.3	248.2	269.9	285.4	293.9	299.3
62.5°	3233.3	1940.3	602.4	357.3	230.5	214.2	231.2	253.7	260.6	269.9	273.8
65°	3173.0	1803.4	523.6	290.0	202.6	194.1	218.9	235.9	245.1	249.8	250.6
66°	3101.9	1721.5	481.0	263.7	192.6	187.9	214.2	228.1	237.4	236.6	237.4
67.5°	2945.7	1549.8	412.2	226.6	177.9	178.6	206.5	215.8	218.9	216.5	216.5
70°	2414.4	1091.2	295.4	171.7	156.2	167.0	185.6	187.9	194.9	191.8	191.8
72.5°	1488.7	535.9	198.0	131.5	139.2	156.2	155.4	163.2	179.4	184.1	187.1
75°	731.6	217.3	130.7	111.4	124.5	130.7	129.1	148.5	171.7	191.8	198.7
77.5°	277.6	108.3	91.3	97.4	100.5	98.2	102.9	134.6	171.7	208.0	215.0
80°	85.8	75.0	71.9	80.4	75.8	71.9	77.3	111.4	145.4	157.8	157.8
82.5°	51.8	58.8	55.7	54.9	51.0	51.8	55.7	79.7	112.1	117.5	117.5
85°	36.3	38.7	31.7	30.2	29.4	28.6	28.6	46.4	66.5	65.7	68.1
87.5°	13.9	15.5	11.6	11.6	10.8	7.7	6.2	7.7	7.7	5.4	3.9
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)