

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: P1209995

Luminaire Tested: **ARCH1-40-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209995
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: ARCH1-40-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5958 lumens
Efficiency: N/A
Efficacy: 138.6 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

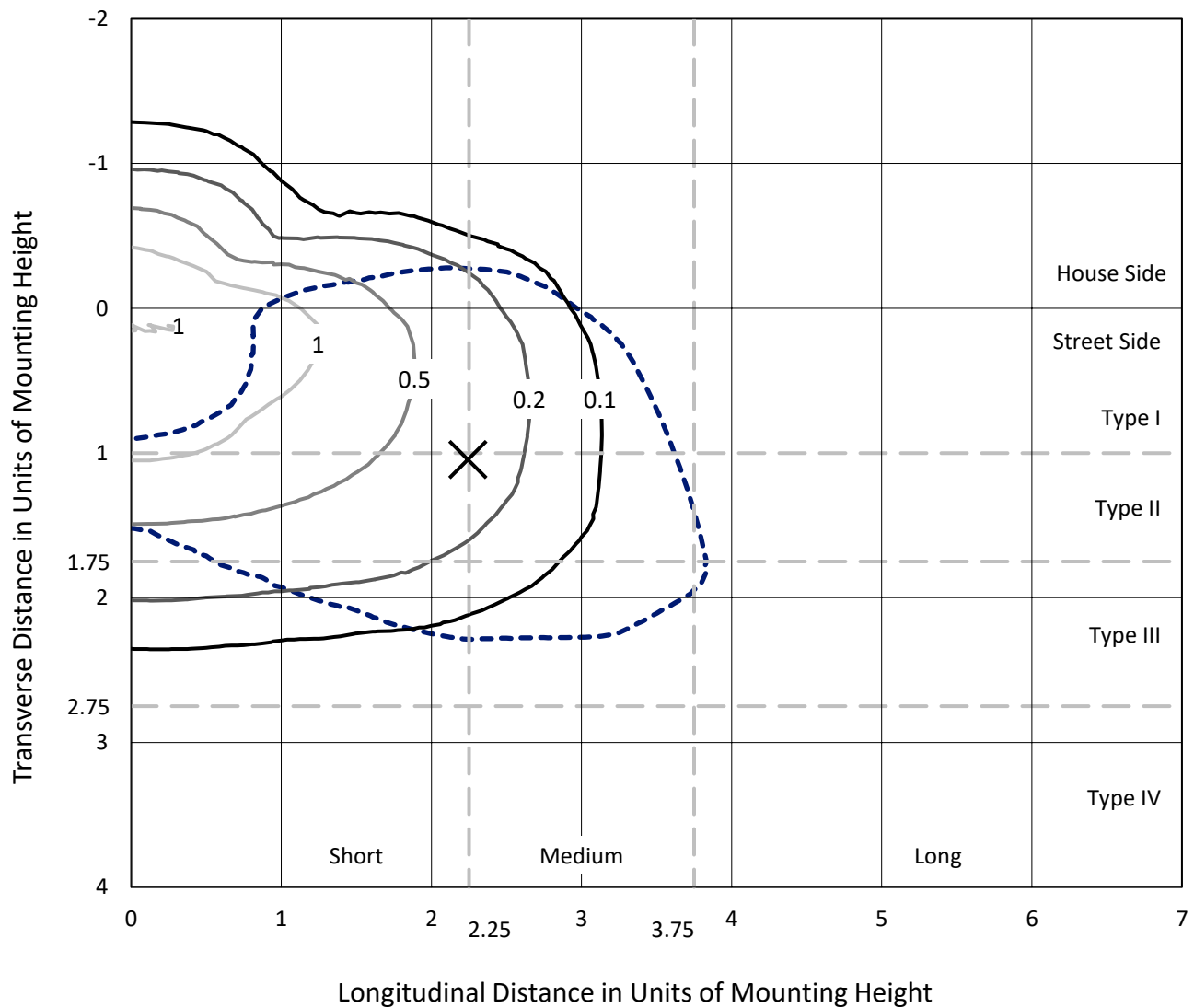


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

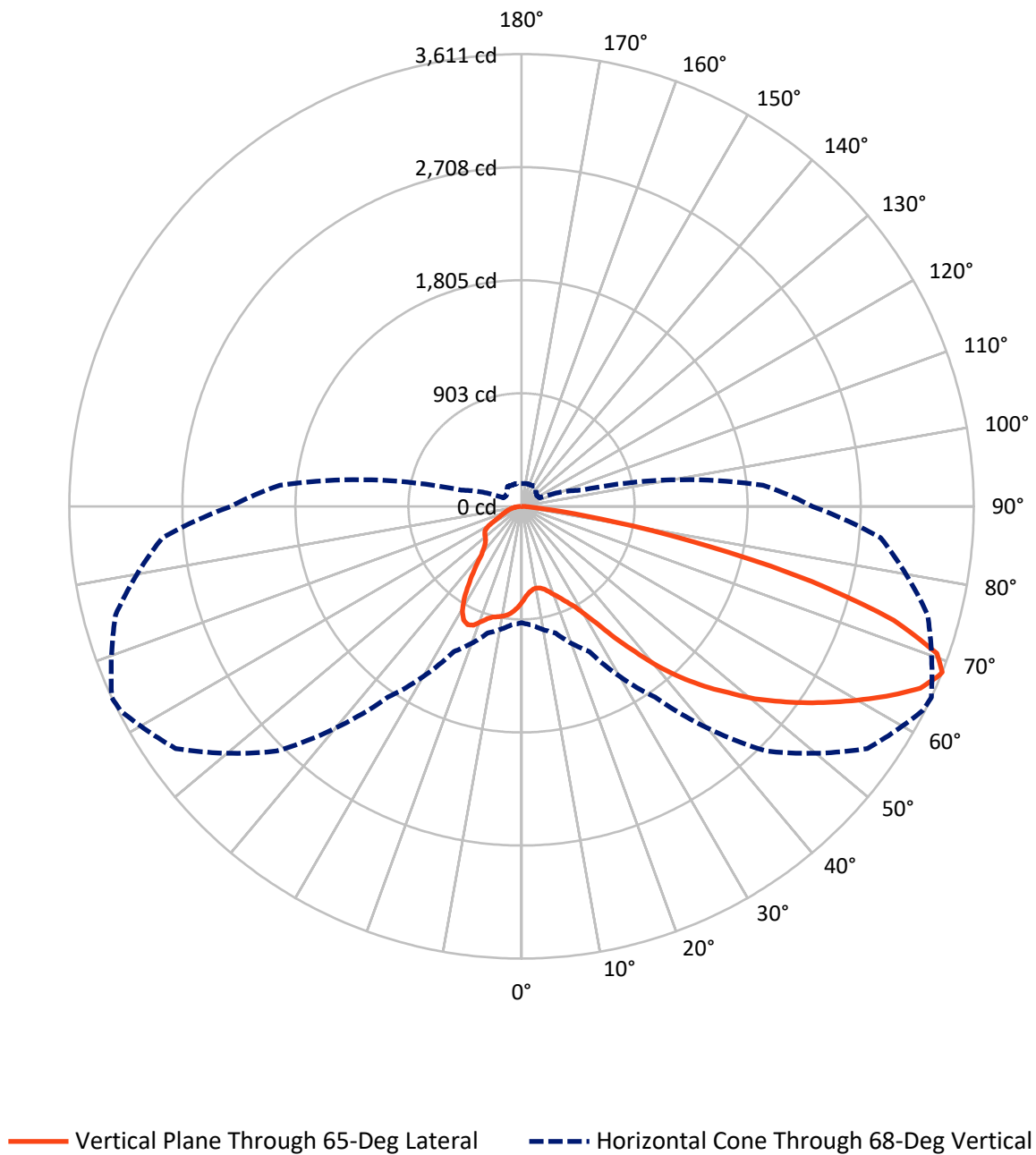


Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1460.7	0.0	1460.7
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	4497.3	0.0	4497.3
	% Fixture	75.5	0.0	75.5
Total	Lumens	5958.0	0.0	5958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.2
10°-20°	236.9	4.0
20°-30°	428.8	7.2
30°-40°	674.5	11.3
40°-50°	1004.7	16.9
50°-60°	1317.9	22.1
60°-70°	1441.2	24.2
70°-80°	713.2	12.0
80°-90°	68.0	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°	5958.0	100.0
0°-180°	5958.0	100.0

Coefficient of Utilization



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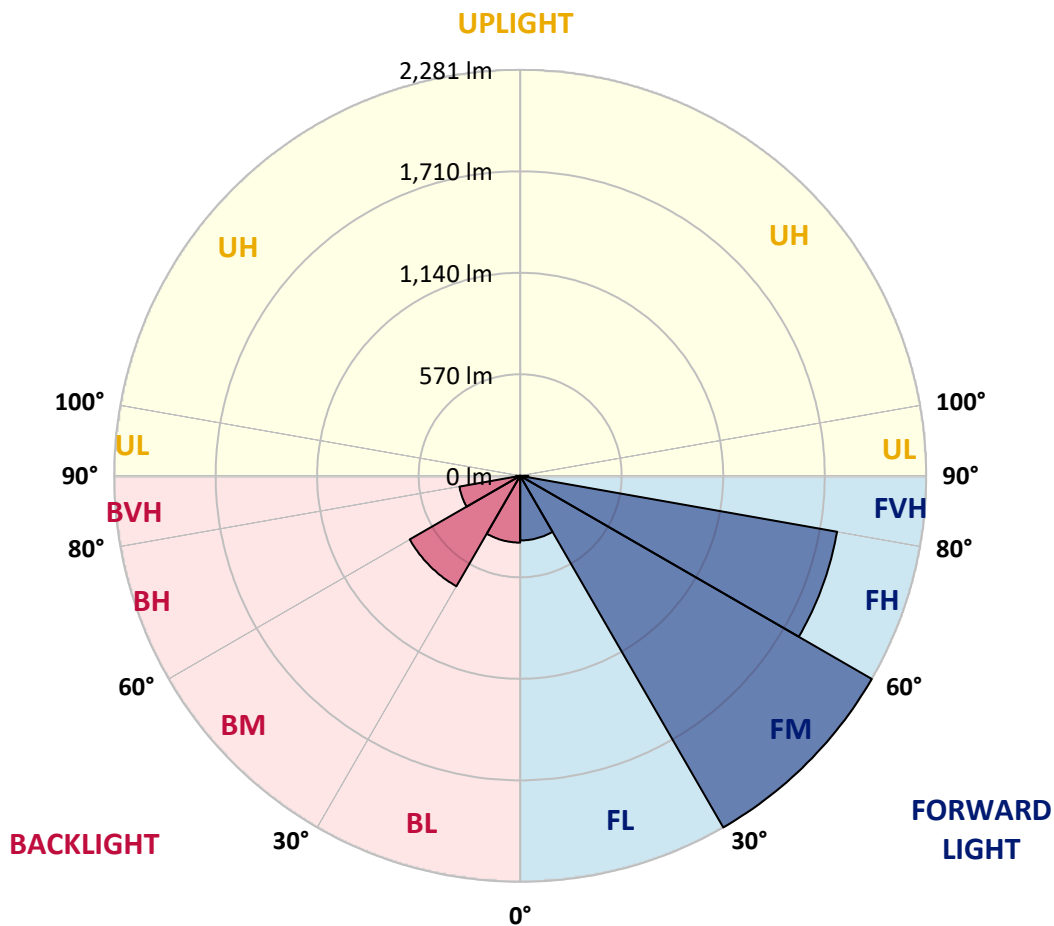
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.2	6.1			
FM	(30°-60°)	2280.6	38.3			
FH	(60°-80°)	1807.7	30.3			G2/5000
FVH	(80°-90°)	45.8	0.8			G1/100
BL	(0°-30°)	375.3	6.3	B1/500		
BM	(30°-60°)	716.5	12.0	B1/1000		
BH	(60°-80°)	346.7	5.8	B1/500		G1/500
BVH	(80°-90°)	22.3	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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4
2.5°	664.6	663.0	666.9	670.7	679.2	689.1	703.0	714.5	716.0	737.5	754.4
5°	625.4	623.1	626.9	631.5	635.4	647.7	662.3	679.2	686.1	717.6	753.7
7.5°	629.2	628.4	630.0	628.4	628.4	633.8	643.8	660.7	668.4	706.0	757.5
10°	651.5	653.0	653.8	649.2	644.6	642.3	645.4	656.9	662.3	706.8	774.4
12.5°	688.4	690.7	691.4	683.0	676.8	666.9	661.5	666.1	669.9	714.5	798.2
15°	738.3	739.8	734.5	729.1	713.7	701.4	688.4	684.5	686.1	730.6	825.1
17.5°	796.7	794.4	794.4	781.3	761.4	742.2	720.6	717.6	717.6	756.8	863.5
20°	860.5	862.8	855.9	838.2	818.2	788.2	766.7	752.9	754.4	786.7	910.4
22.5°	952.7	956.5	938.1	912.7	882.0	847.4	816.7	794.4	795.2	825.9	958.8
25°	1051.8	1053.3	1041.8	1008.0	966.5	917.3	876.6	848.2	847.4	869.7	1021.0
27.5°	1153.2	1160.1	1137.0	1104.8	1066.4	1004.9	951.1	912.7	906.6	936.5	1098.6
30°	1257.7	1266.1	1243.8	1212.3	1164.7	1112.5	1048.7	1004.1	1000.3	1040.2	1202.3
32.5°	1362.9	1365.2	1347.6	1321.4	1278.4	1229.2	1177.8	1128.6	1124.8	1190.1	1336.8
35°	1449.0	1455.9	1443.6	1437.4	1405.9	1360.6	1310.7	1282.3	1292.2	1376.0	1511.2
37.5°	1552.7	1559.6	1545.8	1544.2	1534.2	1495.1	1460.5	1462.8	1472.8	1586.5	1694.8
40°	1702.5	1710.2	1674.8	1659.5	1659.5	1621.1	1609.5	1664.1	1677.1	1793.9	1886.1
42.5°	1829.3	1841.6	1820.8	1810.8	1780.9	1754.0	1767.8	1844.6	1866.9	1992.1	2052.8
45°	1890.7	1899.9	1924.5	1953.7	1924.5	1877.7	1929.9	2016.7	2048.2	2175.0	2219.5
47.5°	1923.8	1932.2	1960.6	2039.0	2059.0	2019.8	2093.5	2201.9	2223.4	2356.3	2378.6
50°	1928.4	1955.3	1992.1	2070.5	2161.9	2167.3	2258.0	2390.1	2415.5	2534.5	2518.4
52.5°	1890.7	1901.5	1977.5	2109.7	2211.1	2303.3	2437.0	2570.6	2589.1	2702.0	2642.1
55°	1829.3	1844.6	1920.7	2100.5	2258.7	2432.4	2619.0	2748.1	2768.9	2864.9	2756.6
57.5°	1773.9	1781.6	1863.1	2073.6	2306.4	2561.4	2781.2	2933.3	2947.1	3007.8	2841.1
60°	1712.5	1720.9	1802.4	2016.0	2341.7	2659.0	2950.2	3120.0	3132.3	3158.4	2939.4
62.5°	1553.5	1575.7	1677.9	1920.7	2332.5	2770.4	3130.7	3304.3	3319.7	3291.3	3017.0
65°	1261.5	1293.0	1418.2	1704.8	2246.4	2842.6	3278.2	3474.1	3500.3	3391.2	3037.8
67.5°	979.5	1001.8	1102.5	1352.9	1944.5	2806.5	3373.5	3590.9	3598.6	3375.0	2922.5
68°	928.8	951.1	1047.2	1279.2	1860.8	2763.5	3371.2	3594.0	3610.9	3357.4	2878.0
70°	710.7	736.0	827.4	1013.4	1499.7	2490.0	3230.6	3520.2	3517.9	3143.8	2601.4
72.5°	444.1	458.7	521.7	639.2	991.8	1894.6	2742.0	3104.6	3110.7	2563.0	1995.2
75°	282.0	282.0	278.9	309.6	508.6	1079.4	2038.2	2390.1	2394.7	1794.7	1257.7
77.5°	245.1	238.2	205.1	173.6	202.8	419.5	1206.2	1543.5	1518.1	966.5	596.9
80°	206.7	195.1	168.3	139.8	130.6	131.4	463.3	783.6	749.8	348.0	198.2
82.5°	149.0	139.1	126.8	109.9	100.6	78.4	96.8	226.6	221.3	100.6	64.5
85°	80.7	73.0	71.4	72.2	60.7	48.4	40.7	49.9	49.9	43.8	36.9
87.5°	28.4	20.7	24.6	27.7	23.8	20.0	16.1	19.2	20.0	19.2	17.7
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°	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4	761.4
2.5°	764.4	772.1	790.6	806.7	818.2	828.2	833.6	835.9	841.3	842.0	840.5
5°	770.6	790.6	818.2	842.0	855.1	860.5	862.0	862.8	860.5	862.0	860.5
7.5°	786.7	812.1	851.2	872.0	874.3	865.8	866.6	863.5	866.6	869.7	869.7
10°	811.3	843.6	880.4	888.1	878.1	873.5	882.7	901.2	907.3	915.8	915.8
12.5°	843.6	882.0	908.1	901.2	892.0	907.3	934.2	952.7	958.8	961.9	959.6
15°	880.4	921.9	935.0	911.9	928.8	961.9	971.1	960.3	945.0	938.1	941.9
17.5°	927.3	961.9	954.2	938.8	977.2	981.9	951.9	917.3	892.7	883.5	889.7
20°	976.5	1006.4	971.1	978.0	1001.8	952.7	895.8	851.2	829.7	825.9	832.0
22.5°	1028.7	1047.9	988.0	1023.3	988.0	888.1	819.7	796.7	791.3	797.5	802.8
25°	1087.9	1085.6	1017.2	1037.2	936.5	809.0	768.3	766.7	766.7	770.6	778.3
27.5°	1154.7	1118.6	1046.4	1018.7	847.4	743.7	736.0	736.8	734.5	735.2	739.1
30°	1232.3	1163.2	1078.7	958.0	747.5	694.5	691.4	689.1	683.8	682.2	683.8
32.5°	1329.9	1210.0	1111.7	858.2	659.9	643.8	642.3	630.0	616.9	615.4	620.8
35°	1453.6	1295.3	1128.6	732.9	587.7	587.0	581.6	562.4	545.5	545.5	541.6
37.5°	1594.9	1405.2	1135.5	610.8	527.8	531.6	516.3	491.7	478.6	471.0	473.3
40°	1739.4	1530.4	1134.7	504.0	475.6	476.3	464.8	434.8	402.6	383.4	388.0
42.5°	1878.4	1644.1	1114.8	447.1	433.3	431.0	421.8	381.1	354.2	338.8	339.6
45°	1989.8	1761.7	1084.0	413.3	394.9	398.7	378.0	353.4	328.8	315.0	314.2
47.5°	2101.2	1850.8	1034.9	392.6	366.5	359.6	351.1	334.2	315.8	300.4	301.2
50°	2202.6	1926.8	988.8	378.8	340.3	322.7	324.2	314.2	298.1	284.3	283.5
52.5°	2274.1	1976.8	963.4	371.1	308.8	289.6	295.0	289.6	274.3	264.3	263.5
55°	2345.5	2015.2	971.9	361.1	274.3	258.9	268.1	266.6	258.1	255.1	255.8
57.5°	2403.2	2044.4	1001.8	342.7	241.2	232.0	247.4	242.8	236.6	237.4	237.4
60°	2459.2	2082.0	1037.2	300.4	212.8	213.6	228.2	219.7	215.9	222.8	223.6
62.5°	2517.6	2122.7	1008.0	238.9	188.2	193.6	210.5	203.6	205.1	215.1	218.2
65°	2510.7	2118.9	821.3	195.9	166.7	177.5	202.8	200.5	201.3	205.1	206.7
67.5°	2369.4	1983.7	564.7	166.7	151.4	164.4	196.7	187.5	188.2	185.9	186.7
68°	2321.7	1936.1	497.8	162.1	148.3	161.3	193.6	185.2	185.9	183.6	182.8
70°	2062.0	1657.9	315.0	142.9	137.5	152.9	178.2	175.2	174.4	172.9	172.9
72.5°	1571.9	1223.9	165.9	123.7	125.2	139.8	159.0	165.2	161.3	162.1	166.7
75°	1041.0	736.0	115.2	106.0	109.9	119.9	141.4	153.7	149.8	152.1	149.8
77.5°	550.9	396.4	92.2	89.9	89.9	96.8	116.8	136.0	136.0	134.4	132.1
80°	180.5	139.8	73.8	70.7	72.2	76.1	93.7	111.4	113.7	110.6	109.1
82.5°	60.7	64.5	55.3	51.5	53.0	56.1	70.7	85.3	86.0	79.9	78.4
85°	37.6	43.0	34.6	33.8	33.8	34.6	43.0	46.9	43.0	38.4	40.0
87.5°	17.7	21.5	16.1	13.8	11.5	10.0	7.7	3.1	3.1	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)