

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: P1210165

Luminaire Tested: **ARCH2-40-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210165
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: ARCH2-40-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5743 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - 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

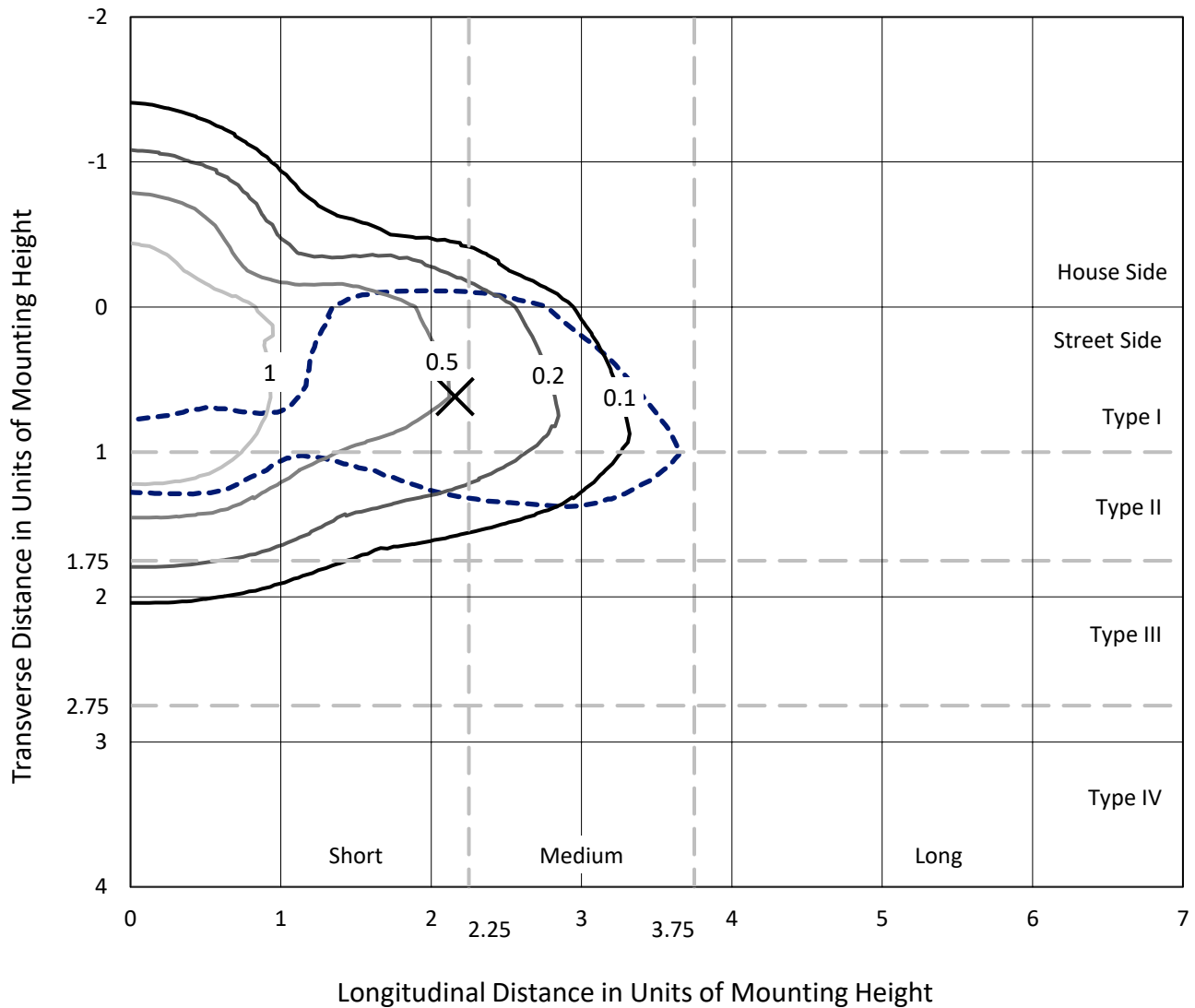


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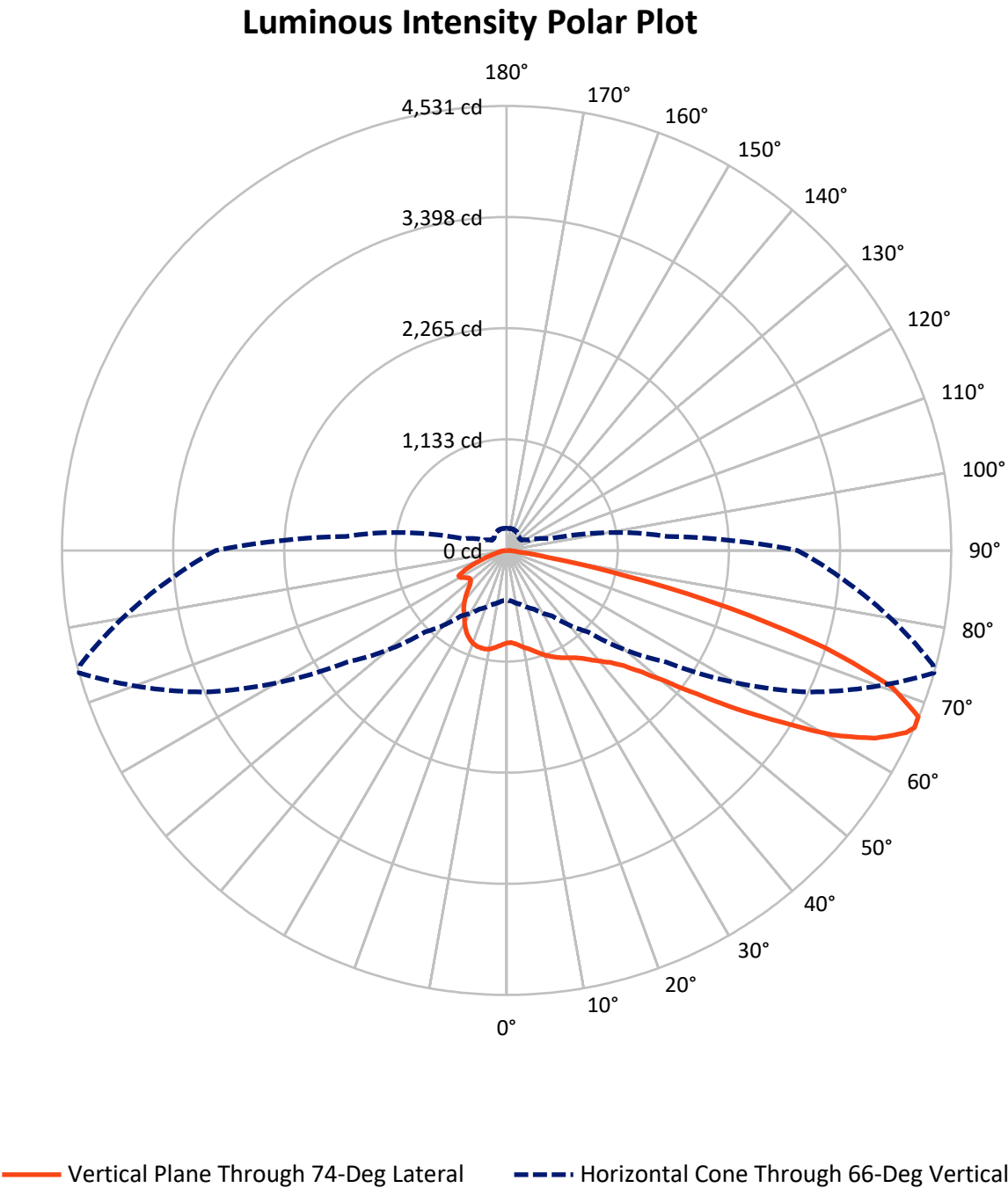
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1398.6	0.0	1398.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	4344.4	0.0	4344.4
	% Fixture	75.6	0.0	75.6
Total	Lumens	5743.0	0.0	5743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.8	1.6
10°-20°	276.2	4.8
20°-30°	518.3	9.0
30°-40°	797.2	13.9
40°-50°	1072.3	18.7
50°-60°	1268.1	22.1
60°-70°	1173.1	20.4
70°-80°	493.5	8.6
80°-90°	54.6	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°	5743.0	100.0
0°-180°	5743.0	100.0

Coefficient of Utilization



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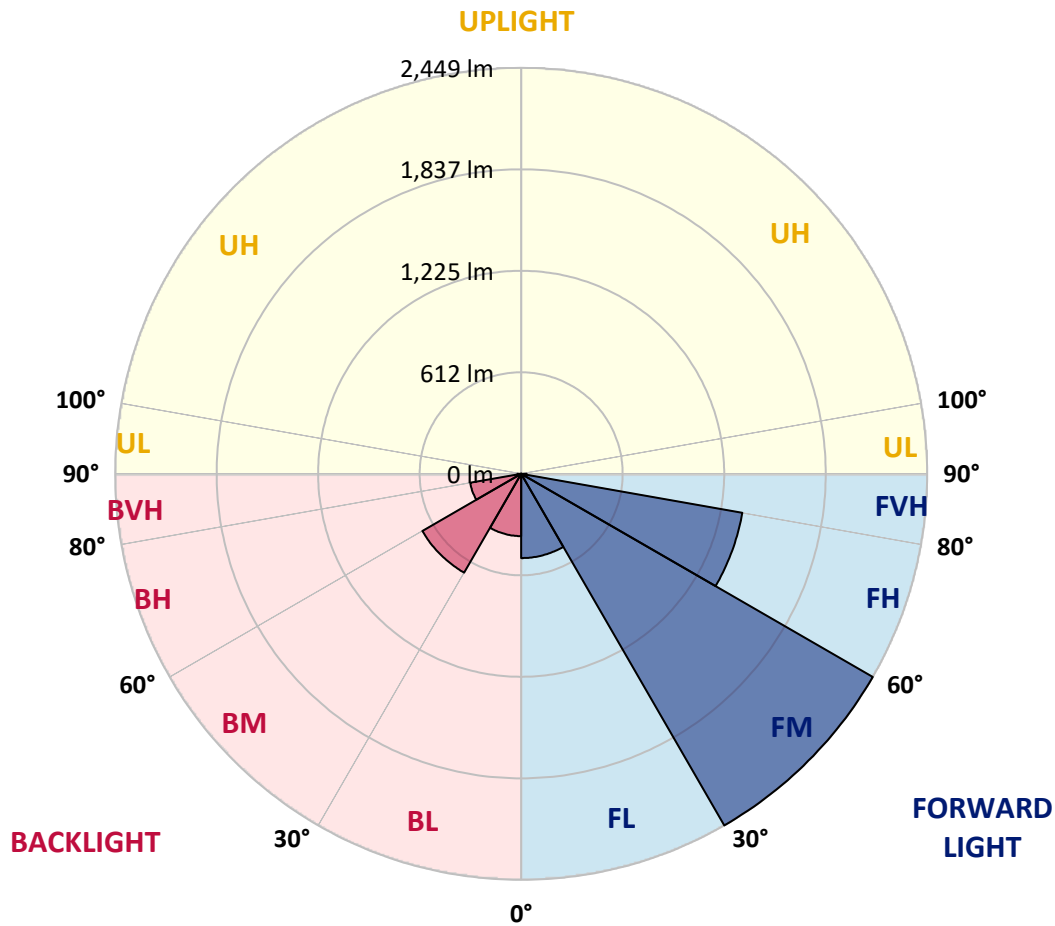
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	508.3	8.9			
FM	(30°-60°)	2449.1	42.6			
FH	(60°-80°)	1354.4	23.6			G1/1800
FVH	(80°-90°)	32.7	0.6			G1/100
BL	(0°-30°)	375.9	6.5	B1/500		
BM	(30°-60°)	688.5	12.0	B1/1000		
BH	(60°-80°)	312.2	5.4	B1/500		G1/500
BVH	(80°-90°)	21.9	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°	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	938.5	937.0	940.0	944.4	946.6	942.9	941.5	940.7	940.7	938.5	942.2
5°	894.2	893.4	900.1	908.2	923.7	934.8	949.6	958.5	955.5	951.1	954.0
7.5°	836.5	835.1	843.2	858.7	880.1	904.5	940.7	968.8	979.9	978.4	977.7
10°	858.7	857.2	856.5	852.1	859.4	883.1	920.8	970.3	1008.0	1008.7	1009.5
12.5°	935.6	939.3	935.6	921.5	905.3	896.4	918.6	974.0	1031.6	1036.1	1054.5
15°	1040.5	1036.8	1029.4	1013.2	988.0	961.4	945.2	991.0	1065.6	1069.3	1110.0
17.5°	1132.9	1135.8	1131.4	1115.9	1086.3	1051.6	1002.1	1020.5	1101.8	1112.2	1169.1
20°	1233.4	1245.2	1239.3	1220.1	1195.7	1144.0	1081.9	1063.4	1141.7	1149.1	1230.4
22.5°	1349.4	1362.0	1350.9	1332.4	1312.4	1248.9	1169.1	1115.9	1175.0	1190.5	1289.5
25°	1488.3	1500.1	1489.8	1461.0	1435.9	1358.3	1262.9	1175.0	1207.5	1224.5	1337.6
27.5°	1598.4	1607.3	1616.9	1599.9	1561.5	1480.9	1360.5	1236.3	1240.0	1257.8	1381.9
30°	1696.7	1718.9	1727.0	1729.2	1696.7	1606.6	1460.2	1299.9	1268.1	1286.6	1426.2
32.5°	1831.2	1864.5	1851.2	1864.5	1845.2	1724.8	1563.7	1365.6	1304.3	1321.3	1468.4
35°	2027.8	2054.4	2019.6	2009.3	1978.3	1844.5	1663.5	1433.6	1352.3	1370.8	1508.3
37.5°	2239.1	2269.4	2219.2	2177.8	2118.7	1962.7	1749.2	1523.1	1418.9	1433.6	1545.2
40°	2423.9	2449.0	2405.4	2350.7	2251.7	2066.9	1823.1	1585.9	1485.4	1503.8	1588.1
42.5°	2594.6	2610.8	2562.1	2509.6	2377.3	2160.8	1902.9	1652.4	1563.0	1580.7	1622.8
45°	2767.5	2780.1	2712.1	2637.4	2482.3	2246.5	1990.8	1745.5	1676.8	1700.4	1679.0
47.5°	2798.5	2802.2	2790.4	2740.2	2565.0	2328.5	2099.5	1870.4	1850.4	1876.3	1775.8
50°	2583.5	2616.8	2689.9	2739.4	2598.3	2397.3	2208.1	2049.2	2089.9	2123.1	1976.8
52.5°	2166.0	2197.7	2367.0	2554.7	2518.5	2412.8	2324.9	2276.1	2427.6	2467.5	2250.2
55°	1725.5	1753.6	1932.4	2202.9	2260.6	2341.8	2449.7	2565.8	2858.4	2885.0	2550.2
57.5°	1421.1	1436.6	1564.4	1824.6	1916.9	2115.0	2517.0	2910.1	3296.6	3337.3	2811.1
60°	1165.4	1182.4	1277.7	1492.0	1614.7	1790.6	2463.8	3250.1	3819.8	3819.8	3145.9
62.5°	877.2	892.0	980.6	1148.4	1354.6	1515.7	2293.8	3475.5	4214.4	4196.7	3388.3
65°	602.3	614.1	678.4	790.0	975.5	1291.7	2061.8	3478.4	4476.0	4452.4	3491.7
66°	505.5	515.8	570.5	660.7	816.6	1172.0	1979.7	3415.6	4530.7	4497.5	3448.1
67.5°	399.1	406.4	442.7	495.9	598.6	948.9	1850.4	3237.5	4525.6	4505.6	3337.3
70°	285.2	290.4	317.0	328.1	354.0	549.1	1469.8	2835.5	4162.7	4168.6	2901.3
72.5°	221.0	229.1	245.3	247.6	241.6	291.9	892.0	2365.5	3405.2	3403.0	2153.4
75°	178.1	182.5	190.7	195.1	193.6	188.4	377.6	1764.7	2344.1	2371.4	1206.0
77.5°	140.4	139.7	147.1	153.0	157.4	147.8	172.9	1034.6	1228.9	1194.2	453.0
80°	103.5	103.5	113.8	116.0	122.7	124.1	115.3	399.1	422.0	383.5	117.5
82.5°	68.0	68.0	79.1	80.5	87.2	96.8	83.5	119.7	116.8	110.8	53.2
85°	36.9	35.5	39.2	44.3	48.0	56.9	50.3	59.9	61.3	60.6	35.5
87.5°	7.4	6.7	10.3	11.8	13.3	17.7	16.3	24.4	34.0	33.3	15.5
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°	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5	941.5
2.5°	947.4	946.6	954.8	964.4	975.5	982.1	985.1	990.2	986.5	988.0	992.5
5°	961.4	963.6	975.5	988.0	993.2	989.5	981.4	978.4	971.8	970.3	968.8
7.5°	982.1	985.8	997.6	1000.6	985.1	959.2	940.7	930.4	919.3	916.3	914.9
10°	1016.1	1018.3	1021.3	991.0	952.6	917.8	894.9	885.3	877.9	872.0	873.5
12.5°	1059.0	1057.5	1034.6	971.8	917.1	881.6	866.1	860.2	855.0	851.3	850.6
15°	1112.9	1102.6	1036.8	945.2	883.8	854.3	843.2	841.0	835.1	835.1	834.3
17.5°	1167.6	1141.0	1035.3	917.1	852.1	835.8	829.1	827.7	826.2	825.4	827.7
20°	1222.3	1175.0	1023.5	882.3	829.9	820.3	818.8	819.5	818.1	820.3	818.8
22.5°	1270.3	1197.2	1001.3	845.4	814.4	813.6	809.9	811.4	816.6	817.3	819.5
25°	1307.3	1205.3	968.8	811.4	803.3	801.8	806.2	812.1	816.6	817.3	821.0
27.5°	1337.6	1200.9	928.2	784.8	784.1	792.2	805.5	807.7	808.5	808.5	805.5
30°	1360.5	1191.2	876.4	755.2	758.9	778.9	791.5	791.5	785.5	784.1	788.5
32.5°	1365.6	1178.7	820.3	724.9	730.9	754.5	770.0	764.9	758.2	758.2	761.2
35°	1370.1	1161.7	775.2	683.6	692.4	720.5	735.3	724.9	717.6	715.3	714.6
37.5°	1368.6	1155.0	734.6	631.1	642.9	670.3	679.9	670.3	659.2	654.0	660.7
40°	1370.1	1150.6	683.6	573.5	585.3	601.5	614.1	606.7	596.4	583.1	589.7
42.5°	1378.9	1156.5	627.4	517.3	517.3	526.2	547.6	542.4	517.3	512.1	518.0
45°	1426.2	1188.3	571.2	461.1	453.0	458.9	481.1	458.9	443.4	443.4	448.6
47.5°	1540.8	1247.4	521.7	411.6	392.4	404.2	410.1	389.4	377.6	374.7	379.8
50°	1774.3	1365.6	492.2	371.0	347.3	356.2	352.5	351.8	339.9	341.4	344.4
52.5°	2129.0	1596.2	483.3	351.0	321.5	323.7	320.0	321.5	319.2	326.6	328.8
55°	2515.5	1839.3	494.4	354.0	303.7	288.2	289.7	297.1	305.9	317.8	320.0
57.5°	2804.5	1961.3	523.2	373.9	281.6	257.9	261.6	275.6	292.6	302.2	307.4
60°	3019.5	1946.5	565.3	379.1	255.0	230.6	237.2	257.9	272.7	280.8	286.0
62.5°	3089.7	1854.1	575.7	341.4	220.2	204.7	221.0	242.4	249.0	257.9	261.6
65°	3032.1	1723.3	500.3	277.1	193.6	185.5	209.1	225.4	234.3	238.7	239.4
66°	2964.1	1645.0	459.6	252.0	184.0	179.6	204.7	218.0	226.9	226.1	226.9
67.5°	2814.8	1480.9	393.9	216.5	170.0	170.7	197.3	206.2	209.1	206.9	206.9
70°	2307.1	1042.7	282.3	164.1	149.3	159.6	177.4	179.6	186.2	183.3	183.3
72.5°	1422.5	512.1	189.2	125.6	133.0	149.3	148.5	155.9	171.4	175.9	178.8
75°	699.1	207.7	124.9	106.4	119.0	124.9	123.4	141.9	164.1	183.3	189.9
77.5°	265.3	103.5	87.2	93.1	96.1	93.9	98.3	128.6	164.1	198.8	205.4
80°	82.0	71.7	68.7	76.9	72.4	68.7	73.9	106.4	138.9	150.8	150.8
82.5°	49.5	56.2	53.2	52.5	48.8	49.5	53.2	76.1	107.2	112.3	112.3
85°	34.7	36.9	30.3	28.8	28.1	27.3	27.3	44.3	63.6	62.8	65.0
87.5°	13.3	14.8	11.1	11.1	10.3	7.4	5.9	7.4	7.4	5.2	3.7
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)