

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: P1210986

Luminaire Tested: **ARCH4-130-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-130-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 1080mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15899 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 132
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



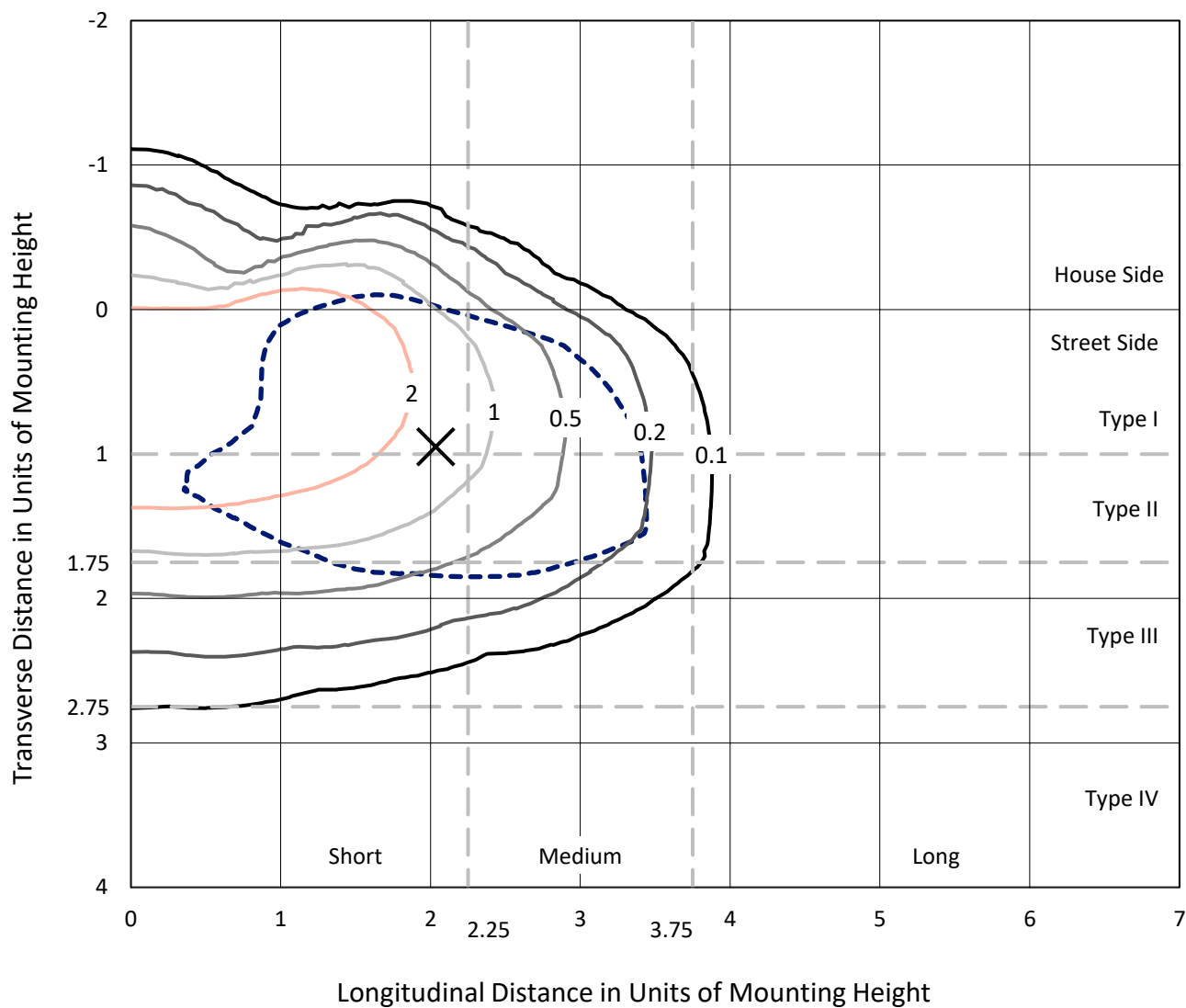
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

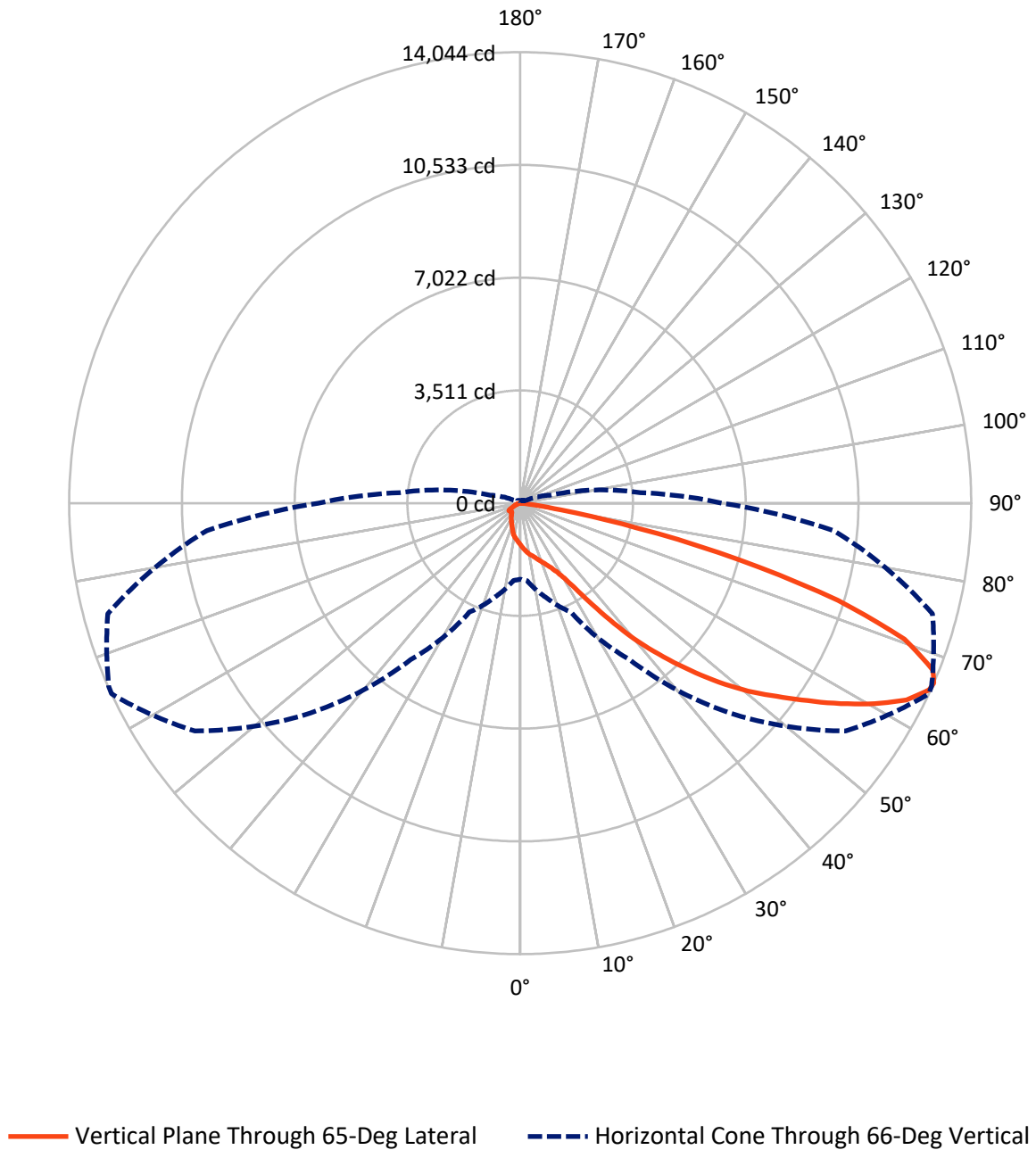
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	1876.4	0.0	1876.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	14022.6	0.0	14022.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	15899.0	0.0	15899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.8	0.8
10°-20°	363.5	2.3
20°-30°	665.4	4.2
30°-40°	1352.0	8.5
40°-50°	2855.0	18.0
50°-60°	4389.1	27.6
60°-70°	4418.0	27.8
70°-80°	1650.8	10.4
80°-90°	82.5	0.5
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°	15899.0	100.0
0°-180°	15899.0	100.0

Coefficient of Utilization



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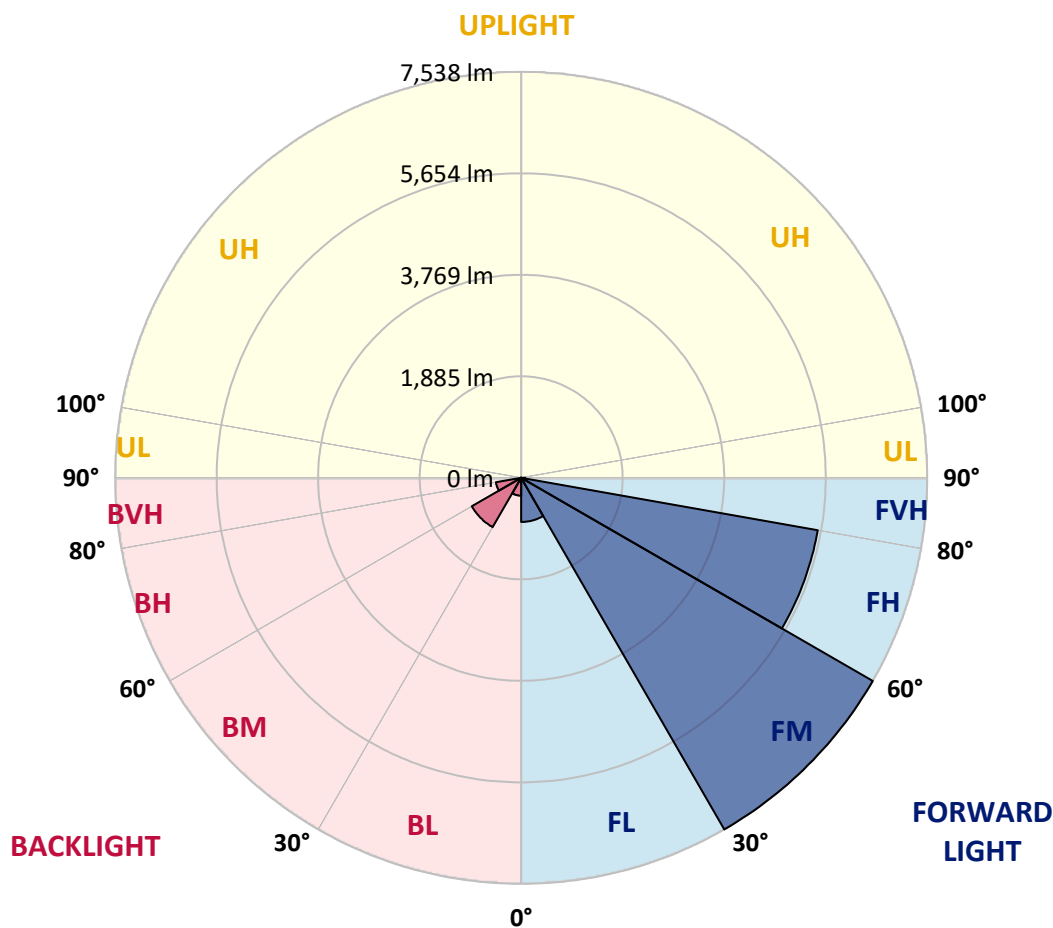
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.6	5.2			
FM	(30°-60°)	7538.2	47.4			
FH	(60°-80°)	5592.1	35.2			G3/7500
FVH	(80°-90°)	72.8	0.5			G1/100
BL	(0°-30°)	332.1	2.1	B1/500		
BM	(30°-60°)	1057.9	6.7	B2/2500		
BH	(60°-80°)	476.7	3.0	B1/500		G1/500
BVH	(80°-90°)	9.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3
2.5°	1477.1	1480.0	1474.2	1462.6	1451.1	1436.7	1413.6	1376.1	1370.3	1344.4	1315.5
5°	1578.0	1583.8	1575.2	1572.3	1566.5	1546.3	1514.6	1459.8	1454.0	1402.1	1335.7
7.5°	1612.7	1621.3	1615.5	1615.5	1615.5	1606.9	1592.5	1543.4	1534.8	1468.4	1367.4
10°	1638.6	1644.4	1641.5	1653.0	1661.7	1655.9	1647.3	1618.4	1609.8	1543.4	1410.7
12.5°	1679.0	1681.9	1684.8	1690.6	1705.0	1710.7	1707.9	1681.9	1676.1	1630.0	1465.5
15°	1716.5	1716.5	1719.4	1745.4	1765.6	1777.1	1780.0	1759.8	1754.0	1716.5	1534.8
17.5°	1751.1	1754.0	1762.7	1791.5	1826.1	1849.2	1863.6	1855.0	1846.3	1817.5	1615.5
20°	1803.1	1808.8	1817.5	1857.9	1892.5	1930.0	1958.8	1956.0	1953.1	1932.9	1710.7
22.5°	1892.5	1898.3	1912.7	1950.2	1984.8	2031.0	2080.0	2077.1	2068.5	2054.1	1823.3
25°	2028.1	2028.1	2036.7	2068.5	2111.7	2166.6	2212.7	2221.4	2212.7	2204.1	1964.6
27.5°	2198.3	2201.2	2201.2	2235.8	2276.2	2345.4	2403.1	2411.8	2411.8	2403.1	2155.0
30°	2434.9	2426.2	2420.4	2449.3	2492.6	2593.5	2694.5	2711.8	2703.2	2717.6	2423.3
32.5°	2841.6	2827.2	2778.2	2783.9	2809.9	2948.4	3118.6	3179.2	3176.3	3202.2	2856.1
35°	3404.2	3375.3	3303.2	3242.6	3239.7	3389.8	3649.4	3877.3	3874.4	3963.9	3513.8
37.5°	4038.9	4076.4	3940.8	3836.9	3805.2	3923.5	4258.1	4751.4	4777.4	4933.2	4376.4
40°	4887.0	4910.1	4737.0	4589.9	4439.9	4483.1	4924.5	5691.9	5738.1	5911.2	5239.0
42.5°	5625.6	5648.6	5547.7	5368.8	5178.4	5097.6	5596.7	6545.8	6583.3	6822.8	6127.5
45°	6127.5	6144.8	6179.5	6196.8	5980.4	5813.1	6418.9	7422.9	7469.0	7746.0	6995.9
47.5°	6519.9	6534.3	6603.5	6776.6	6733.4	6600.7	7255.5	8334.5	8346.0	8654.7	7841.2
50°	6701.6	6736.2	6906.5	7171.9	7362.3	7399.8	8164.3	9197.1	9228.8	9523.1	8640.3
52.5°	6499.7	6511.2	6941.1	7440.2	7823.9	8204.7	9075.9	9996.2	10088.5	10307.8	9358.6
55°	5818.8	5902.5	6554.5	7431.5	8187.4	8969.2	10051.0	10858.8	10942.4	11080.9	9990.4
57.5°	5028.4	5120.7	5914.0	7059.4	8343.1	9676.0	10954.0	11776.2	11833.9	11871.4	10570.3
60°	4344.7	4431.2	5247.6	6346.8	8187.4	10175.1	11793.5	12687.8	12736.8	12635.9	10861.7
62.5°	3505.2	3591.7	4413.9	5403.4	7575.8	10276.0	12416.6	13498.5	13518.7	13244.6	10682.8
65°	2642.6	2700.3	3386.9	4235.0	6505.5	9739.4	12558.0	14003.3	13983.1	13420.6	10146.2
66°	2368.5	2417.5	3023.4	3744.6	5948.7	9249.0	12367.6	14043.7	14023.5	13290.7	9794.2
67.5°	2042.5	2056.9	2556.0	3063.8	4976.5	8207.5	11787.7	13859.1	13876.4	12933.0	9150.9
70°	1595.4	1592.5	1881.0	2131.9	3398.4	5839.0	9831.7	12696.5	12780.1	11582.9	7803.7
72.5°	1021.3	986.6	1154.0	1304.0	1979.0	3389.8	7169.0	10348.1	10489.5	9099.0	5813.1
75°	608.7	574.1	614.5	652.0	949.1	1630.0	4214.8	7042.0	7177.6	5833.3	3459.0
77.5°	455.8	441.4	444.3	412.5	421.2	611.6	1924.2	3721.5	3819.6	2388.7	1312.6
80°	349.1	311.6	291.4	305.8	277.0	242.3	715.5	1280.9	1341.5	565.4	274.1
82.5°	233.7	201.9	187.5	204.8	176.0	135.6	173.1	248.1	242.3	152.9	106.7
85°	121.2	103.9	103.9	103.9	89.4	66.4	75.0	101.0	101.0	80.8	63.5
87.5°	34.6	31.7	37.5	34.6	26.0	26.0	28.8	34.6	34.6	31.7	28.8
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°	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3	1295.3
2.5°	1292.4	1280.9	1249.2	1226.1	1203.0	1182.8	1159.7	1154.0	1142.4	1145.3	1139.5
5°	1301.1	1269.4	1214.5	1162.6	1122.2	1087.6	1044.3	1027.0	1003.9	995.3	989.5
7.5°	1312.6	1266.5	1185.7	1113.6	1044.3	975.1	905.9	865.5	839.5	828.0	819.3
10°	1338.6	1278.0	1171.3	1058.8	940.5	842.4	773.2	744.3	727.0	724.1	721.2
12.5°	1373.2	1295.3	1156.8	989.5	833.7	741.4	698.1	689.5	686.6	686.6	683.7
15°	1425.1	1324.2	1133.8	908.7	750.1	686.6	666.4	652.0	646.2	646.2	646.2
17.5°	1477.1	1358.8	1099.1	825.1	692.4	652.0	631.8	623.1	617.4	620.3	617.4
20°	1543.4	1399.2	1053.0	753.0	654.9	623.1	602.9	594.3	591.4	591.4	591.4
22.5°	1618.4	1445.3	995.3	698.1	623.1	594.3	574.1	565.4	559.7	562.6	562.6
25°	1719.4	1503.0	934.7	643.3	591.4	565.4	542.4	530.8	530.8	533.7	536.6
27.5°	1849.2	1572.3	874.1	608.7	562.6	536.6	510.6	499.1	502.0	507.7	507.7
30°	2039.6	1667.5	813.5	571.2	530.8	502.0	478.9	467.4	473.1	484.7	484.7
32.5°	2310.8	1823.3	761.6	527.9	484.7	452.9	429.9	421.2	435.6	458.7	458.7
35°	2795.5	2108.9	729.9	484.7	435.6	398.1	369.3	360.6	380.8	409.7	409.7
37.5°	3444.6	2567.6	741.4	447.2	395.2	352.0	320.2	308.7	323.1	349.1	357.7
40°	4168.7	3121.5	842.4	415.4	357.7	314.5	282.7	271.2	279.8	291.4	294.3
42.5°	4892.8	3710.0	1032.8	392.3	328.9	282.7	253.9	245.2	251.0	253.9	256.8
45°	5614.0	4292.7	1272.2	377.9	302.9	256.8	227.9	227.9	230.8	230.8	230.8
47.5°	6297.7	4861.1	1523.2	375.0	279.8	230.8	207.7	210.6	210.6	213.5	213.5
50°	6944.0	5368.8	1777.1	383.7	259.6	207.7	190.4	190.4	190.4	193.3	190.4
52.5°	7483.4	5813.1	2042.5	398.1	239.4	190.4	173.1	173.1	173.1	176.0	173.1
55°	7994.1	6217.0	2313.7	418.3	222.1	176.0	158.7	152.9	152.9	155.8	152.9
57.5°	8409.5	6485.3	2570.4	421.2	207.7	161.6	147.1	138.5	138.5	138.5	138.5
60°	8426.8	6329.5	2645.5	369.3	190.4	147.1	132.7	121.2	124.1	124.1	124.1
62.5°	7875.8	5510.2	2126.2	277.0	170.2	132.7	121.2	109.6	109.6	109.6	109.6
65°	6793.9	4287.0	1246.3	219.3	147.1	118.3	106.7	98.1	98.1	98.1	95.2
66°	6286.2	3759.0	954.9	199.1	138.5	115.4	103.9	95.2	92.3	89.4	89.4
67.5°	5458.2	2971.4	597.2	176.0	126.9	106.7	95.2	86.5	83.7	80.8	80.8
70°	4111.0	1886.7	291.4	135.6	109.6	92.3	83.7	75.0	72.1	69.2	66.4
72.5°	2884.9	1104.9	152.9	103.9	89.4	80.8	72.1	63.5	60.6	57.7	57.7
75°	1630.0	533.7	101.0	75.0	72.1	66.4	60.6	51.9	49.0	49.0	49.0
77.5°	617.4	184.6	69.2	54.8	57.7	51.9	43.3	43.3	40.4	43.3	40.4
80°	161.6	80.8	43.3	40.4	43.3	37.5	31.7	34.6	34.6	34.6	34.6
82.5°	86.5	46.2	26.0	28.8	26.0	26.0	20.2	23.1	26.0	23.1	26.0
85°	60.6	23.1	14.4	14.4	11.5	11.5	8.7	11.5	14.4	11.5	11.5
87.5°	31.7	8.7	8.7	8.7	8.7	5.8	2.9	0.0	2.9	2.9	2.9
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)