

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: P1210582

Luminaire Tested: **ARCH3-170-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210582
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: ARCH3-170-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13920 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 170.6
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

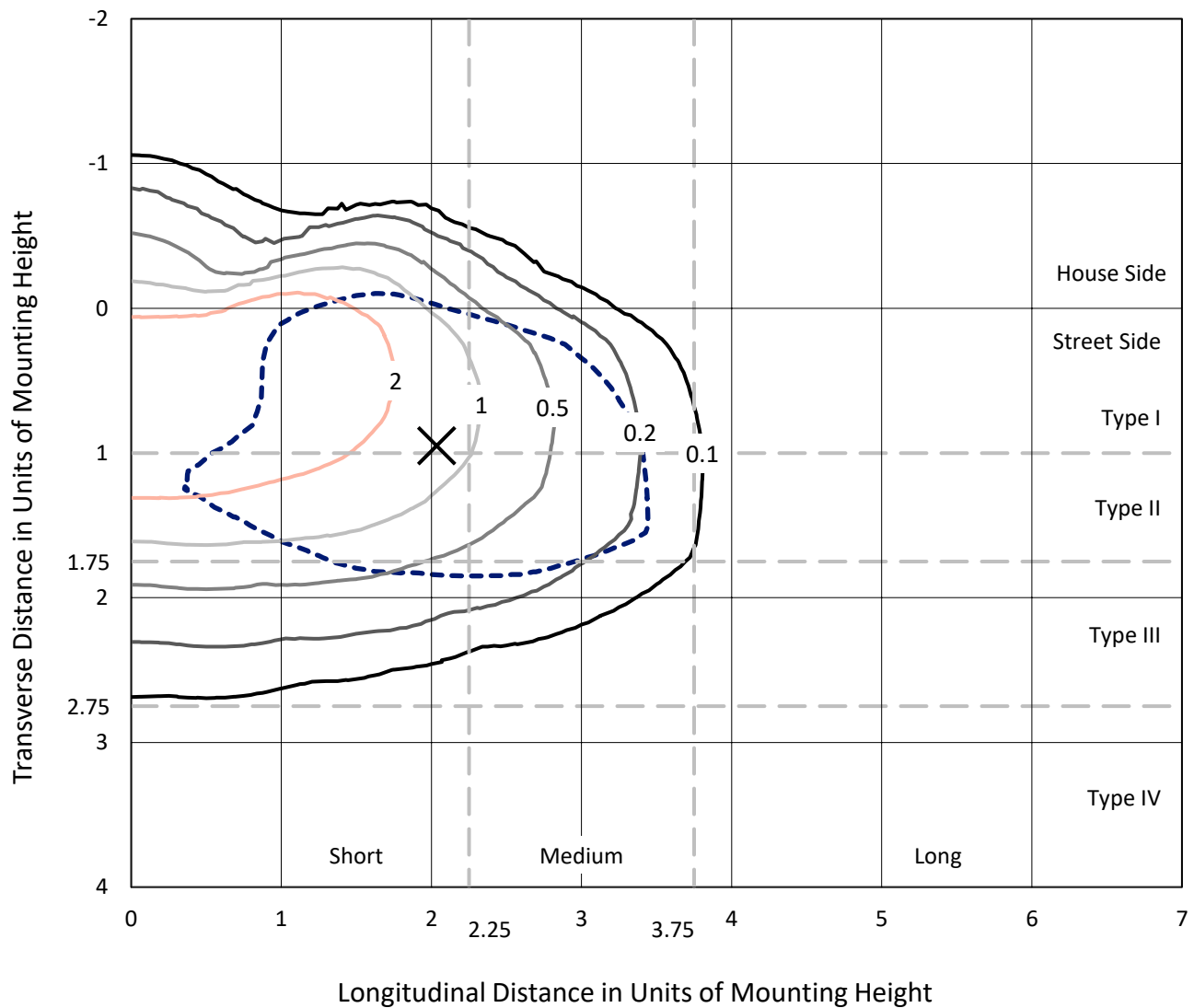


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

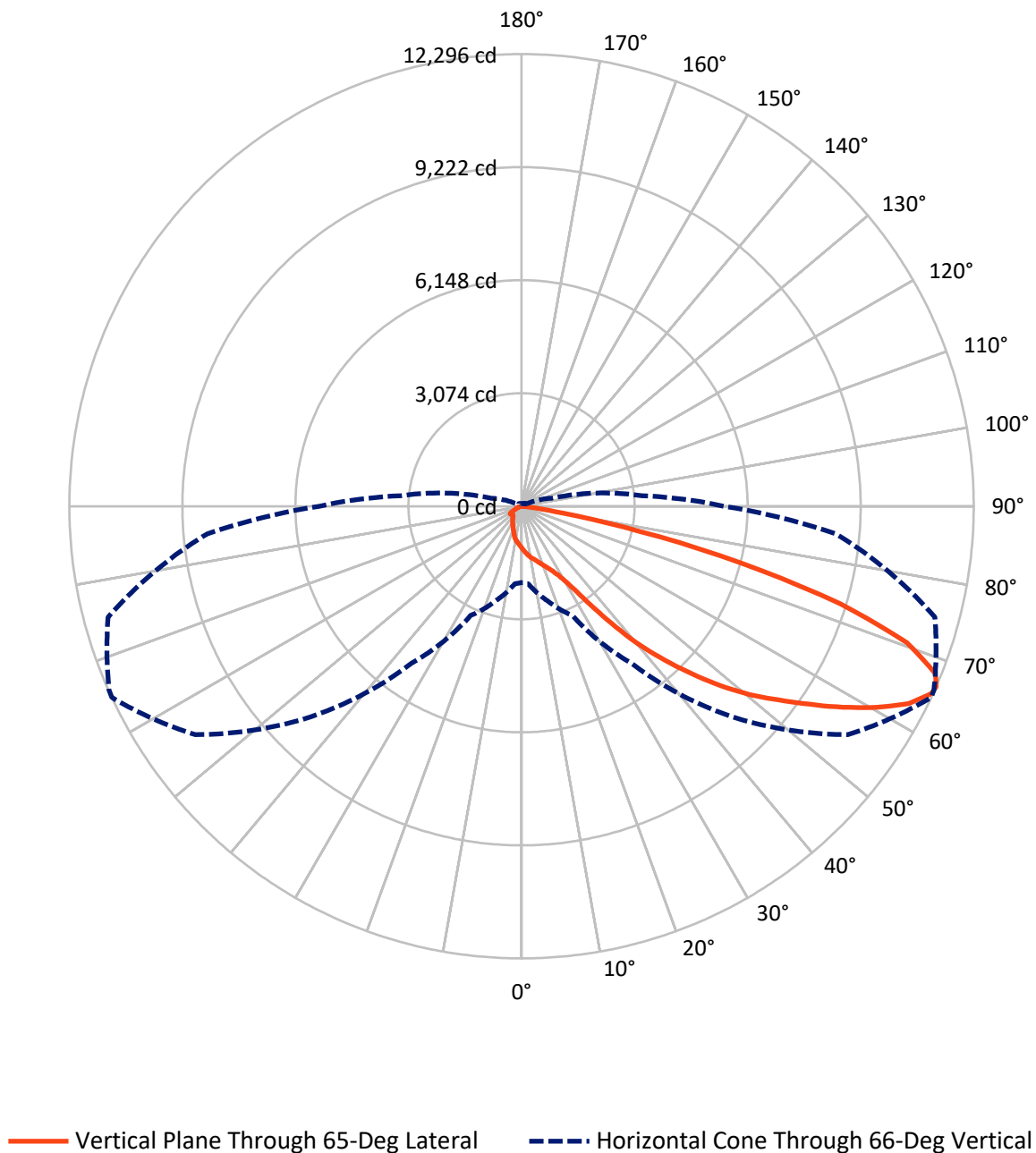


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1642.8	0.0	1642.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12277.1	0.0	12277.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	13920.0	0.0	13920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	0.8
10°-20°	318.3	2.3
20°-30°	582.5	4.2
30°-40°	1183.7	8.5
40°-50°	2499.7	18.0
50°-60°	3842.8	27.6
60°-70°	3868.0	27.8
70°-80°	1445.3	10.4
80°-90°	72.2	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°	13920.0	100.0
0°-180°	13920.0	100.0

Coefficient of Utilization



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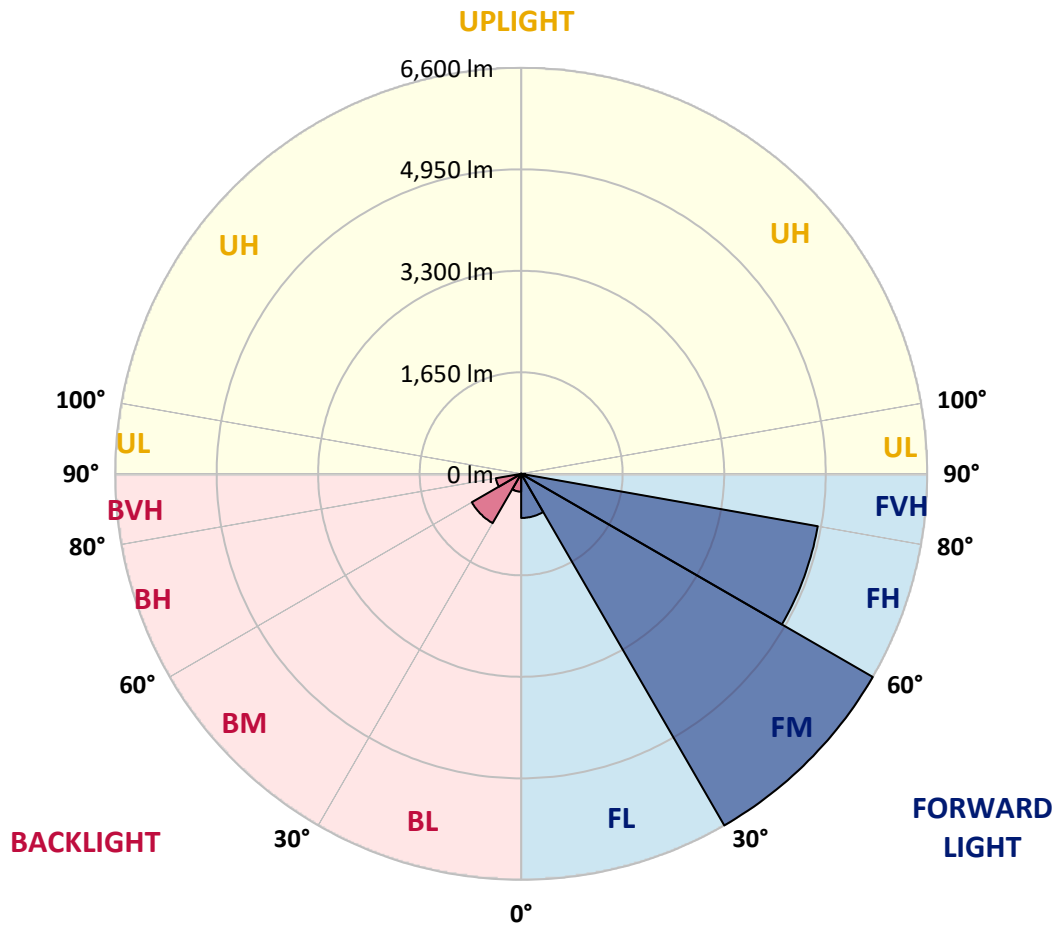
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	717.6	5.2			
FM	(30°-60°)	6599.9	47.4			
FH	(60°-80°)	4896.0	35.2			G2/5000
FVH	(80°-90°)	63.7	0.5			G1/100
BL	(0°-30°)	290.8	2.1	B1/500		
BM	(30°-60°)	926.2	6.7	B1/1000		
BH	(60°-80°)	417.3	3.0	B1/500		G1/500
BVH	(80°-90°)	8.5	0.1			G0/10
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°	65°	66°	75°	85°
0°	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1
2.5°	1293.2	1295.7	1290.7	1280.6	1270.5	1257.9	1237.6	1204.8	1199.8	1177.0	1151.8
5°	1381.6	1386.7	1379.1	1376.6	1371.5	1353.8	1326.0	1278.1	1273.0	1227.5	1169.4
7.5°	1411.9	1419.5	1414.5	1414.5	1414.5	1406.9	1394.2	1351.3	1343.7	1285.6	1197.2
10°	1434.7	1439.7	1437.2	1447.3	1454.9	1449.8	1442.2	1417.0	1409.4	1351.3	1235.1
12.5°	1470.0	1472.5	1475.1	1480.1	1492.8	1497.8	1495.3	1472.5	1467.5	1427.1	1283.1
15°	1502.9	1502.9	1505.4	1528.1	1545.8	1555.9	1558.4	1540.7	1535.7	1502.9	1343.7
17.5°	1533.2	1535.7	1543.3	1568.5	1598.8	1619.0	1631.7	1624.1	1616.5	1591.3	1414.5
20°	1578.6	1583.7	1591.3	1626.6	1656.9	1689.8	1715.0	1712.5	1710.0	1692.3	1497.8
22.5°	1656.9	1662.0	1674.6	1707.4	1737.8	1778.2	1821.1	1818.6	1811.0	1798.4	1596.3
25°	1775.6	1775.6	1783.2	1811.0	1848.9	1896.9	1937.3	1944.9	1937.3	1929.7	1720.1
27.5°	1924.7	1927.2	1927.2	1957.5	1992.9	2053.5	2104.0	2111.6	2111.6	2104.0	1886.8
30°	2131.8	2124.2	2119.2	2144.4	2182.3	2270.7	2359.1	2374.3	2366.7	2379.3	2121.7
32.5°	2487.9	2475.3	2432.4	2437.4	2460.1	2581.4	2730.4	2783.4	2780.9	2803.6	2500.6
35°	2980.5	2955.2	2892.1	2839.0	2836.5	2967.8	3195.1	3394.7	3392.2	3470.5	3076.4
37.5°	3536.1	3569.0	3450.3	3359.3	3331.5	3435.1	3728.1	4160.0	4182.7	4319.1	3831.7
40°	4278.7	4298.9	4147.4	4018.6	3887.2	3925.1	4311.6	4983.4	5023.8	5175.4	4586.9
42.5°	4925.3	4945.5	4857.1	4700.5	4533.8	4463.1	4900.1	5731.1	5763.9	5973.5	5364.8
45°	5364.8	5380.0	5410.3	5425.4	5236.0	5089.5	5619.9	6498.9	6539.3	6781.8	6125.1
47.5°	5708.3	5721.0	5781.6	5933.1	5895.2	5779.1	6352.4	7297.1	7307.2	7577.4	6865.1
50°	5867.5	5897.8	6046.8	6279.2	6445.9	6478.7	7148.0	8052.3	8080.1	8337.7	7564.8
52.5°	5690.6	5700.8	6077.1	6514.1	6850.0	7183.4	7946.2	8751.9	8832.8	9024.7	8193.7
55°	5094.6	5167.8	5738.6	6506.5	7168.2	7852.7	8799.9	9507.1	9580.4	9701.6	8746.9
57.5°	4402.5	4483.3	5177.9	6180.7	7304.6	8471.6	9590.5	10310.4	10360.9	10393.7	9254.6
60°	3803.9	3879.6	4594.4	5556.8	7168.2	8908.5	10325.5	11108.5	11151.4	11063.0	9509.7
62.5°	3068.9	3144.6	3864.5	4730.8	6632.8	8996.9	10871.1	11818.3	11835.9	11596.0	9353.1
65°	2313.6	2364.2	2965.3	3707.9	5695.7	8527.1	10994.8	12260.3	12242.6	11750.1	8883.3
66°	2073.7	2116.6	2647.0	3278.5	5208.2	8097.7	10828.1	12295.6	12278.0	11636.4	8575.1
67.5°	1788.3	1800.9	2237.9	2682.4	4357.0	7185.9	10320.5	12134.0	12149.1	11323.2	8011.9
70°	1396.8	1394.2	1646.8	1866.6	2975.4	5112.2	8608.0	11116.1	11189.3	10141.1	6832.3
72.5°	894.1	863.8	1010.3	1141.7	1732.7	2967.8	6276.6	9060.1	9183.8	7966.4	5089.5
75°	532.9	502.6	538.0	570.8	831.0	1427.1	3690.2	6165.5	6284.2	5107.2	3028.4
77.5°	399.1	386.4	389.0	361.2	368.8	535.5	1684.7	3258.3	3344.2	2091.4	1149.2
80°	305.6	272.8	255.1	267.7	242.5	212.2	626.4	1121.5	1174.5	495.1	240.0
82.5°	204.6	176.8	164.2	179.3	154.1	118.7	151.5	217.2	212.2	133.9	93.5
85°	106.1	90.9	90.9	90.9	78.3	58.1	65.7	88.4	88.4	70.7	55.6
87.5°	30.3	27.8	32.8	30.3	22.7	22.7	25.3	30.3	30.3	27.8	25.3
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°	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1	1134.1
2.5°	1131.6	1121.5	1093.7	1073.5	1053.3	1035.6	1015.4	1010.3	1000.2	1002.7	997.7
5°	1139.1	1111.4	1063.4	1017.9	982.5	952.2	914.3	899.2	879.0	871.4	866.4
7.5°	1149.2	1108.8	1038.1	975.0	914.3	853.7	793.1	757.7	735.0	724.9	717.3
10°	1172.0	1118.9	1025.5	927.0	823.4	737.5	676.9	651.7	636.5	634.0	631.5
12.5°	1202.3	1134.1	1012.8	866.4	730.0	649.1	611.2	603.7	601.1	601.1	598.6
15°	1247.7	1159.3	992.6	795.6	656.7	601.1	583.5	570.8	565.8	565.8	565.8
17.5°	1293.2	1189.7	962.3	722.4	606.2	570.8	553.2	545.6	540.5	543.0	540.5
20°	1351.3	1225.0	921.9	659.2	573.4	545.6	527.9	520.3	517.8	517.8	517.8
22.5°	1417.0	1265.4	871.4	611.2	545.6	520.3	502.6	495.1	490.0	492.5	492.5
25°	1505.4	1315.9	818.4	563.3	517.8	495.1	474.9	464.7	464.7	467.3	469.8
27.5°	1619.0	1376.6	765.3	532.9	492.5	469.8	447.1	437.0	439.5	444.5	444.5
30°	1785.7	1459.9	712.3	500.1	464.7	439.5	419.3	409.2	414.2	424.3	424.3
32.5°	2023.2	1596.3	666.8	462.2	424.3	396.6	376.3	368.8	381.4	401.6	401.6
35°	2447.5	1846.4	639.0	424.3	381.4	348.6	323.3	315.7	333.4	358.7	358.7
37.5°	3015.8	2248.0	649.1	391.5	346.0	308.1	280.4	270.3	282.9	305.6	313.2
40°	3649.8	2732.9	737.5	363.7	313.2	275.3	247.5	237.4	245.0	255.1	257.6
42.5°	4283.8	3248.2	904.2	343.5	287.9	247.5	222.3	214.7	219.7	222.3	224.8
45°	4915.2	3758.4	1113.9	330.9	265.2	224.8	199.5	199.5	202.1	202.1	202.1
47.5°	5513.8	4256.0	1333.6	328.4	245.0	202.1	181.9	184.4	184.4	186.9	186.9
50°	6079.6	4700.5	1555.9	335.9	227.3	181.9	166.7	166.7	166.7	169.2	166.7
52.5°	6551.9	5089.5	1788.3	348.6	209.6	166.7	151.5	151.5	151.5	154.1	151.5
55°	6999.0	5443.1	2025.7	366.2	194.5	154.1	138.9	133.9	133.9	136.4	133.9
57.5°	7362.7	5678.0	2250.5	368.8	181.9	141.4	128.8	121.2	121.2	121.2	121.2
60°	7377.9	5541.6	2316.2	323.3	166.7	128.8	116.2	106.1	108.6	108.6	108.6
62.5°	6895.5	4824.3	1861.5	242.5	149.0	116.2	106.1	96.0	96.0	96.0	96.0
65°	5948.3	3753.4	1091.1	192.0	128.8	103.6	93.5	85.9	85.9	85.9	83.4
66°	5503.7	3291.1	836.0	174.3	121.2	101.0	90.9	83.4	80.8	78.3	78.3
67.5°	4778.8	2601.6	522.8	154.1	111.1	93.5	83.4	75.8	73.2	70.7	70.7
70°	3599.3	1651.9	255.1	118.7	96.0	80.8	73.2	65.7	63.1	60.6	58.1
72.5°	2525.8	967.4	133.9	90.9	78.3	70.7	63.1	55.6	53.0	50.5	50.5
75°	1427.1	467.3	88.4	65.7	63.1	58.1	53.0	45.5	42.9	42.9	42.9
77.5°	540.5	161.7	60.6	48.0	50.5	45.5	37.9	37.9	35.4	37.9	35.4
80°	141.4	70.7	37.9	35.4	37.9	32.8	27.8	30.3	30.3	30.3	30.3
82.5°	75.8	40.4	22.7	25.3	22.7	22.7	17.7	20.2	22.7	20.2	22.7
85°	53.0	20.2	12.6	12.6	10.1	10.1	7.6	10.1	12.6	10.1	10.1
87.5°	27.8	7.6	7.6	7.6	7.6	5.1	2.5	0.0	2.5	2.5	2.5
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)