

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: P1211062

Luminaire Tested: **ARCH4-160-722-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211062
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: ARCH4-160-722-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1305mA 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: 15646 lumens
Efficiency: N/A
Efficacy: 97.4 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): 160.7
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

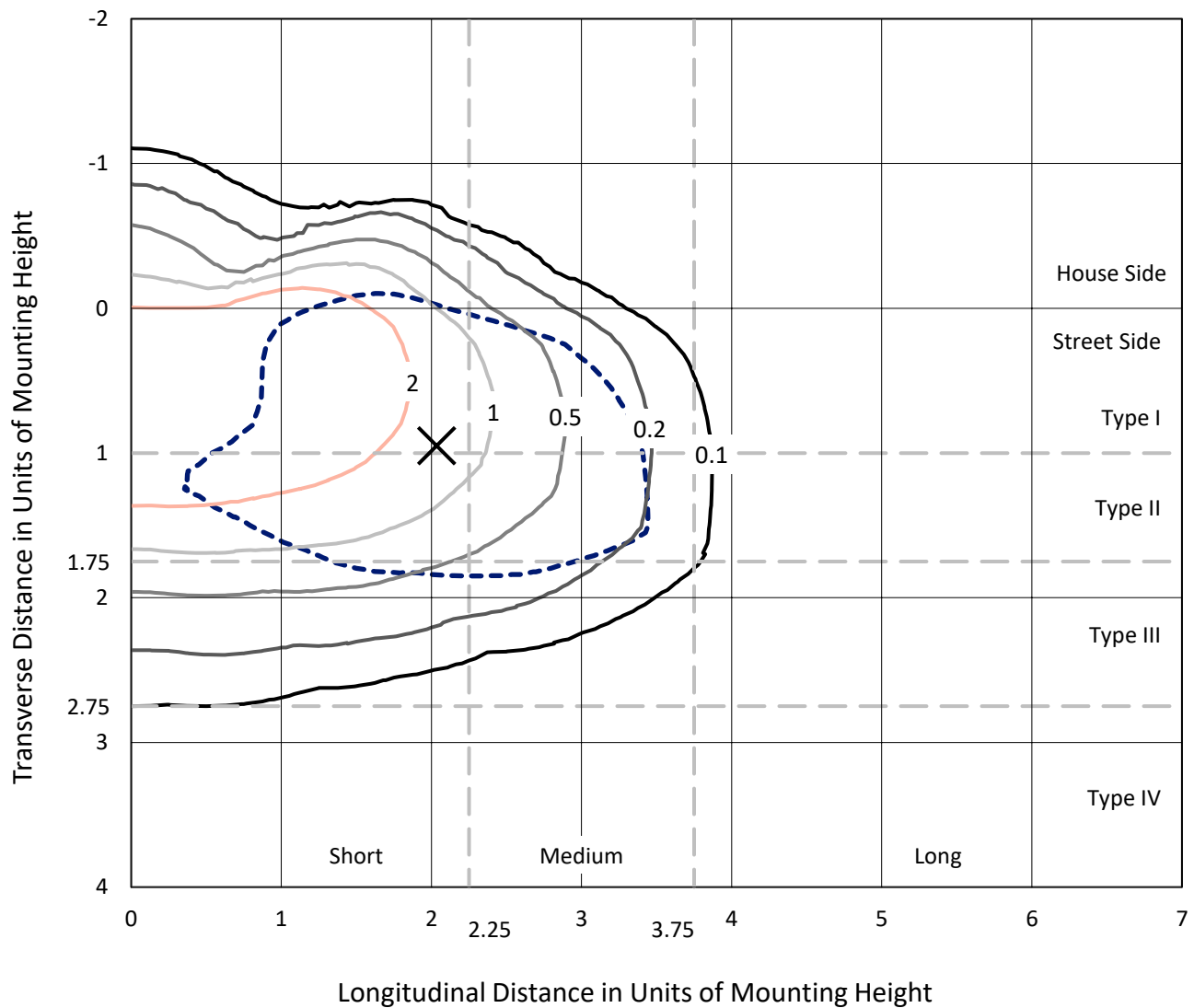


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Iso-Footcandle Lines of Horizontal Illumination

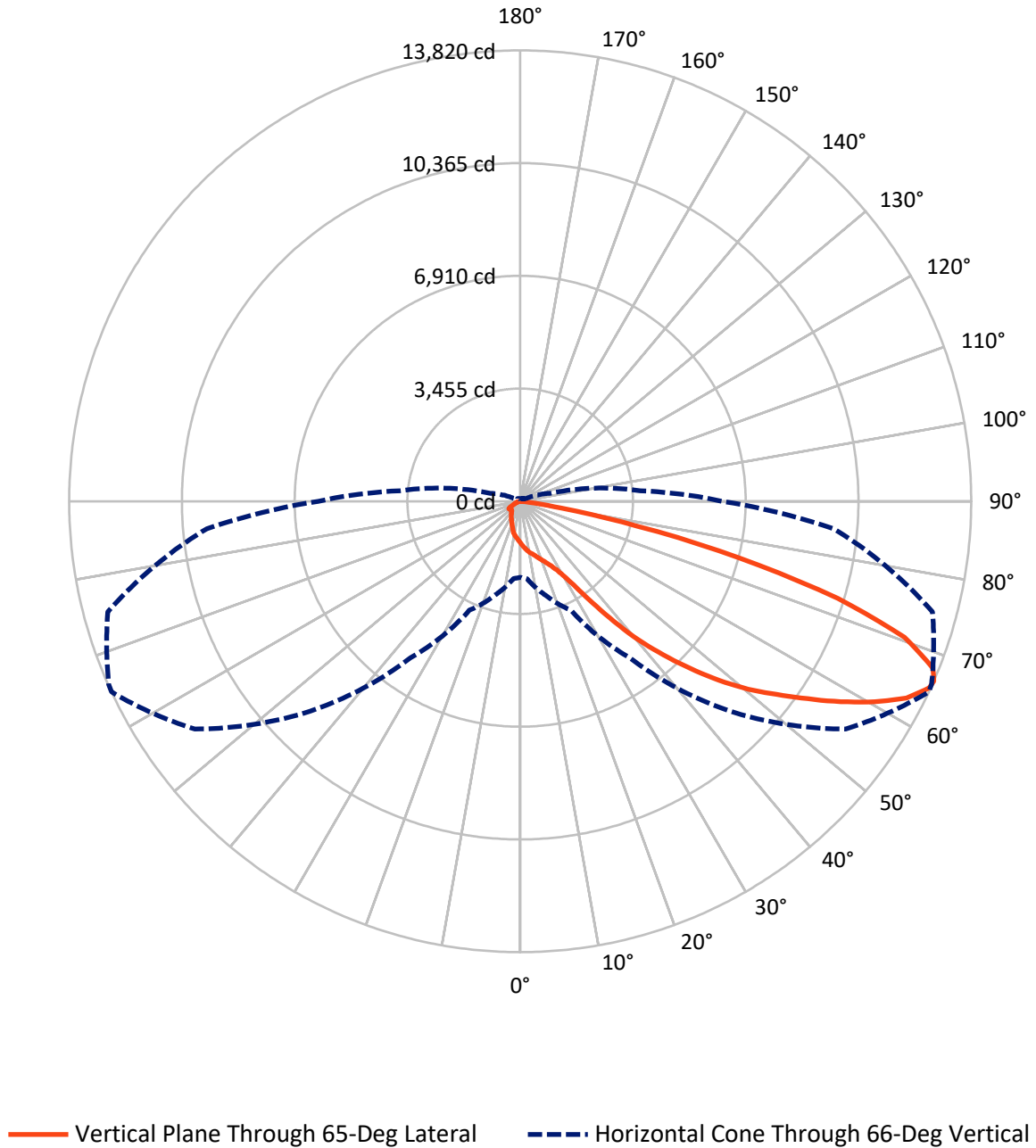
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1846.6	0.0	1846.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13799.5	0.0	13799.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	15646.0	0.0	15646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.8	0.8
10°-20°	357.7	2.3
20°-30°	654.8	4.2
30°-40°	1330.5	8.5
40°-50°	2809.6	18.0
50°-60°	4319.3	27.6
60°-70°	4347.6	27.8
70°-80°	1624.5	10.4
80°-90°	81.2	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°	15646.0	100.0
0°-180°	15646.0	100.0

Coefficient of Utilization



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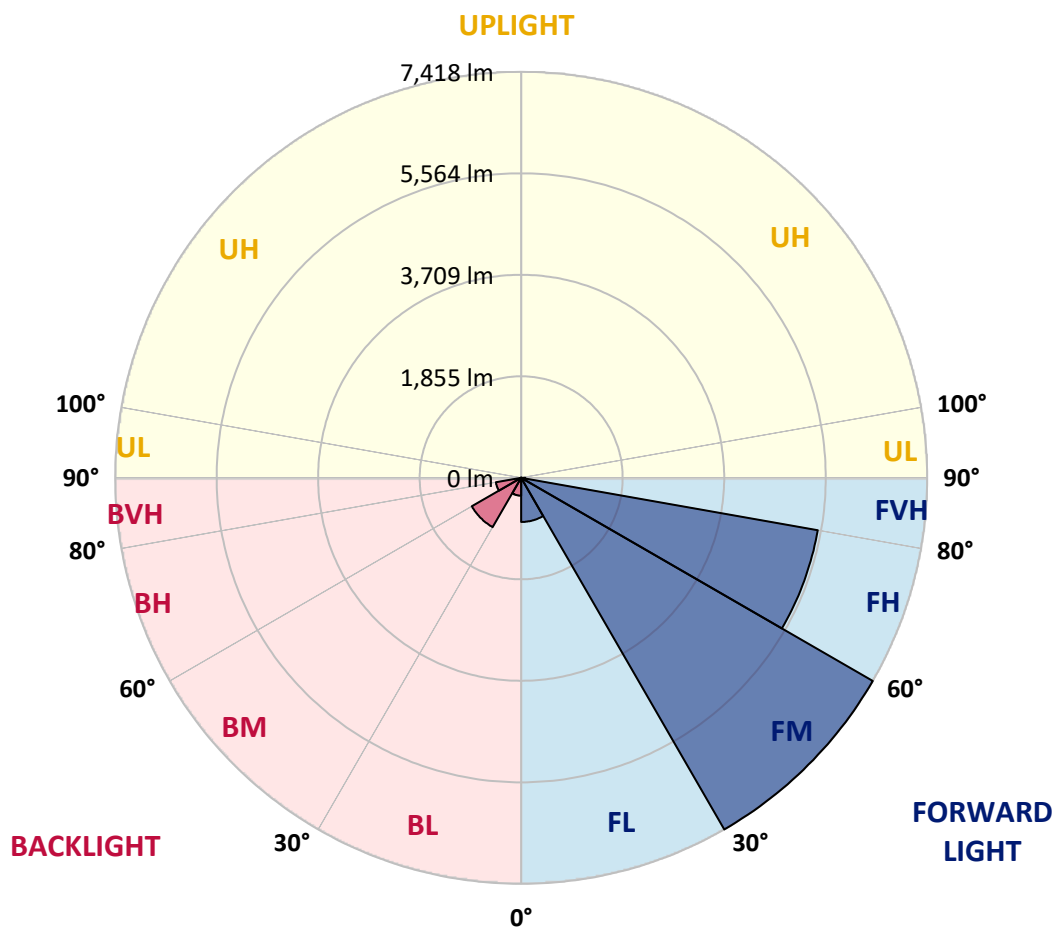
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	806.5	5.2			
FM	(30°-60°)	7418.2	47.4			
FH	(60°-80°)	5503.1	35.2			G3/7500
FVH	(80°-90°)	71.6	0.5			G1/100
BL	(0°-30°)	326.8	2.1	B1/500		
BM	(30°-60°)	1041.1	6.7	B2/2500		
BH	(60°-80°)	469.1	3.0	B1/500		G1/500
BVH	(80°-90°)	9.5	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7
2.5°	1453.6	1456.4	1450.7	1439.4	1428.0	1413.8	1391.1	1354.2	1348.5	1323.0	1294.6
5°	1552.9	1558.6	1550.1	1547.3	1541.6	1521.7	1490.5	1436.5	1430.9	1379.8	1314.5
7.5°	1587.0	1595.5	1589.8	1589.8	1589.8	1581.3	1567.1	1518.9	1510.3	1445.0	1345.7
10°	1612.5	1618.2	1615.4	1626.7	1635.3	1629.6	1621.1	1592.7	1584.2	1518.9	1388.3
12.5°	1652.3	1655.1	1658.0	1663.7	1677.8	1683.5	1680.7	1655.1	1649.5	1604.0	1442.2
15°	1689.2	1689.2	1692.0	1717.6	1737.5	1748.8	1751.7	1731.8	1726.1	1689.2	1510.3
17.5°	1723.3	1726.1	1734.6	1763.0	1797.1	1819.8	1834.0	1825.5	1817.0	1788.6	1589.8
20°	1774.4	1780.0	1788.6	1828.3	1862.4	1899.3	1927.7	1924.8	1922.0	1902.1	1683.5
22.5°	1862.4	1868.1	1882.3	1919.2	1953.2	1998.7	2046.9	2044.1	2035.6	2021.4	1794.2
25°	1995.8	1995.8	2004.3	2035.6	2078.1	2132.1	2177.5	2186.0	2177.5	2169.0	1933.4
27.5°	2163.3	2166.2	2166.2	2200.2	2240.0	2308.1	2364.9	2373.4	2373.4	2364.9	2120.7
30°	2396.1	2387.6	2381.9	2410.3	2452.9	2552.3	2651.6	2668.7	2660.1	2674.3	2384.8
32.5°	2796.4	2782.2	2734.0	2739.6	2765.2	2901.5	3069.0	3128.6	3125.7	3151.3	2810.6
35°	3350.0	3321.6	3250.6	3191.0	3188.2	3335.8	3591.3	3815.6	3812.8	3900.8	3457.9
37.5°	3974.6	4011.5	3878.1	3775.9	3744.6	3861.0	4190.4	4675.8	4701.4	4854.7	4306.8
40°	4809.3	4832.0	4661.6	4516.8	4369.2	4411.8	4846.2	5601.3	5646.8	5817.1	5155.6
42.5°	5536.0	5558.8	5459.4	5283.4	5096.0	5016.5	5507.7	6441.7	6478.6	6714.2	6030.0
45°	6030.0	6047.1	6081.1	6098.2	5885.2	5720.6	6316.8	7304.7	7350.2	7622.7	6884.6
47.5°	6416.1	6430.3	6498.5	6668.8	6626.2	6495.6	7140.1	8201.9	8213.2	8517.0	7716.4
50°	6595.0	6629.1	6796.6	7057.7	7245.1	7282.0	8034.4	9050.7	9081.9	9371.5	8502.8
52.5°	6396.3	6407.6	6830.6	7321.8	7699.4	8074.1	8931.5	9837.1	9928.0	10143.7	9209.7
55°	5726.3	5808.6	6450.2	7313.3	8057.1	8826.4	9891.1	10686.0	10768.3	10904.6	9831.4
57.5°	4948.4	5039.2	5819.9	6947.0	8210.4	9522.0	10779.7	11588.8	11645.6	11682.5	10402.1
60°	4275.5	4360.7	5164.1	6245.8	8057.1	10013.1	11605.8	12485.9	12534.2	12434.8	10688.8
62.5°	3449.4	3534.5	4343.7	5317.4	7455.2	10112.5	12219.0	13283.7	13303.5	13033.8	10512.8
65°	2600.5	2657.3	3333.0	4167.6	6401.9	9584.4	12358.1	13780.5	13760.6	13207.0	9984.7
66°	2330.8	2379.1	2975.3	3685.0	5854.0	9101.8	12170.8	13820.2	13800.4	13079.3	9638.4
67.5°	2010.0	2024.2	2515.3	3015.0	4897.3	8076.9	11600.1	13638.5	13655.6	12727.2	9005.3
70°	1570.0	1567.1	1851.0	2098.0	3344.3	5746.1	9675.3	12494.4	12576.7	11398.6	7679.5
72.5°	1005.0	970.9	1135.6	1283.2	1947.6	3335.8	7054.9	10183.5	10322.6	8954.2	5720.6
75°	599.0	565.0	604.7	641.6	934.0	1604.0	4147.8	6930.0	7063.4	5740.4	3404.0
77.5°	448.6	434.4	437.2	406.0	414.5	601.9	1893.6	3662.3	3758.8	2350.7	1291.7
80°	343.5	306.6	286.7	300.9	272.5	238.5	704.1	1260.5	1320.1	556.4	269.7
82.5°	230.0	198.7	184.5	201.6	173.2	133.4	170.3	244.2	238.5	150.5	105.0
85°	119.2	102.2	102.2	102.2	88.0	65.3	73.8	99.4	99.4	79.5	62.5
87.5°	34.1	31.2	36.9	34.1	25.6	25.6	28.4	34.1	34.1	31.2	28.4
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°	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7	1274.7
2.5°	1271.9	1260.5	1229.3	1206.6	1183.9	1164.0	1141.3	1135.6	1124.2	1127.1	1121.4
5°	1280.4	1249.2	1195.2	1144.1	1104.4	1070.3	1027.7	1010.7	988.0	979.5	973.8
7.5°	1291.7	1246.3	1166.8	1095.9	1027.7	959.6	891.4	851.7	826.1	814.8	806.3
10°	1317.3	1257.7	1152.6	1041.9	925.5	829.0	760.9	732.5	715.4	712.6	709.7
12.5°	1351.4	1274.7	1138.4	973.8	820.5	729.6	687.0	678.5	675.7	675.7	672.8
15°	1402.5	1303.1	1115.7	894.3	738.1	675.7	655.8	641.6	635.9	635.9	635.9
17.5°	1453.6	1337.2	1081.7	812.0	681.4	641.6	621.7	613.2	607.5	610.4	607.5
20°	1518.9	1376.9	1036.2	741.0	644.5	613.2	593.3	584.8	582.0	582.0	582.0
22.5°	1592.7	1422.3	979.5	687.0	613.2	584.8	565.0	556.4	550.8	553.6	553.6
25°	1692.0	1479.1	919.8	633.1	582.0	556.4	533.7	522.4	522.4	525.2	528.1
27.5°	1819.8	1547.3	860.2	599.0	553.6	528.1	502.5	491.1	494.0	499.7	499.7
30°	2007.2	1640.9	800.6	562.1	522.4	494.0	471.3	459.9	465.6	477.0	477.0
32.5°	2274.0	1794.2	749.5	519.5	477.0	445.7	423.0	414.5	428.7	451.4	451.4
35°	2751.0	2075.3	718.3	477.0	428.7	391.8	363.4	354.9	374.7	403.1	403.1
37.5°	3389.8	2526.7	729.6	440.0	388.9	346.4	315.1	303.8	318.0	343.5	352.0
40°	4102.3	3071.8	829.0	408.8	352.0	309.5	278.2	266.9	275.4	286.7	289.6
42.5°	4814.9	3650.9	1016.4	386.1	323.6	278.2	249.8	241.3	247.0	249.8	252.7
45°	5524.7	4224.4	1252.0	371.9	298.1	252.7	224.3	224.3	227.1	227.1	227.1
47.5°	6197.5	4783.7	1499.0	369.1	275.4	227.1	204.4	207.2	207.2	210.1	210.1
50°	6833.5	5283.4	1748.8	377.6	255.5	204.4	187.4	187.4	187.4	190.2	187.4
52.5°	7364.4	5720.6	2010.0	391.8	235.6	187.4	170.3	170.3	170.3	173.2	170.3
55°	7866.9	6118.0	2276.9	411.7	218.6	173.2	156.1	150.5	150.5	153.3	150.5
57.5°	8275.7	6382.1	2529.5	414.5	204.4	159.0	144.8	136.3	136.3	136.3	136.3
60°	8292.7	6228.8	2603.4	363.4	187.4	144.8	130.6	119.2	122.1	122.1	122.1
62.5°	7750.5	5422.5	2092.3	272.5	167.5	130.6	119.2	107.9	107.9	107.9	107.9
65°	6685.8	4218.7	1226.4	215.8	144.8	116.4	105.0	96.5	96.5	96.5	93.7
66°	6186.2	3699.2	939.7	195.9	136.3	113.6	102.2	93.7	90.8	88.0	88.0
67.5°	5371.4	2924.2	587.7	173.2	124.9	105.0	93.7	85.2	82.3	79.5	79.5
70°	4045.6	1856.7	286.7	133.4	107.9	90.8	82.3	73.8	71.0	68.1	65.3
72.5°	2839.0	1087.3	150.5	102.2	88.0	79.5	71.0	62.5	59.6	56.8	56.8
75°	1604.0	525.2	99.4	73.8	71.0	65.3	59.6	51.1	48.3	48.3	48.3
77.5°	607.5	181.7	68.1	53.9	56.8	51.1	42.6	42.6	39.7	42.6	39.7
80°	159.0	79.5	42.6	39.7	42.6	36.9	31.2	34.1	34.1	34.1	34.1
82.5°	85.2	45.4	25.6	28.4	25.6	25.6	19.9	22.7	25.6	22.7	25.6
85°	59.6	22.7	14.2	14.2	11.4	11.4	8.5	11.4	14.2	11.4	11.4
87.5°	31.2	8.5	8.5	8.5	8.5	5.7	2.8	0.0	2.8	2.8	2.8
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)