

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: P1211002

Luminaire Tested: **ARCH4-140-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211002
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: ARCH4-140-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1155mA 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: 15487 lumens
Efficiency: N/A
Efficacy: 109.6 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

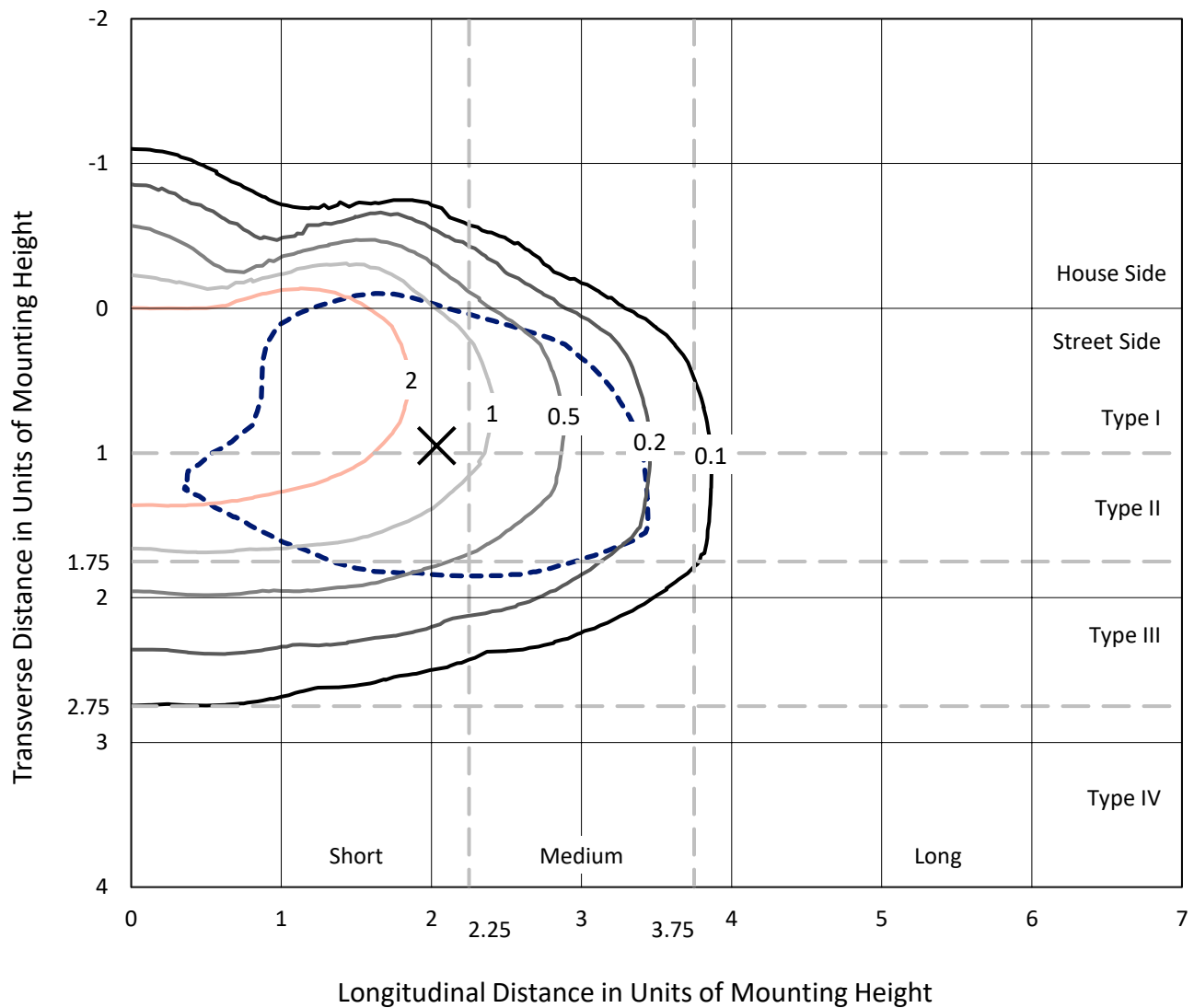
Input Watts (W): 141.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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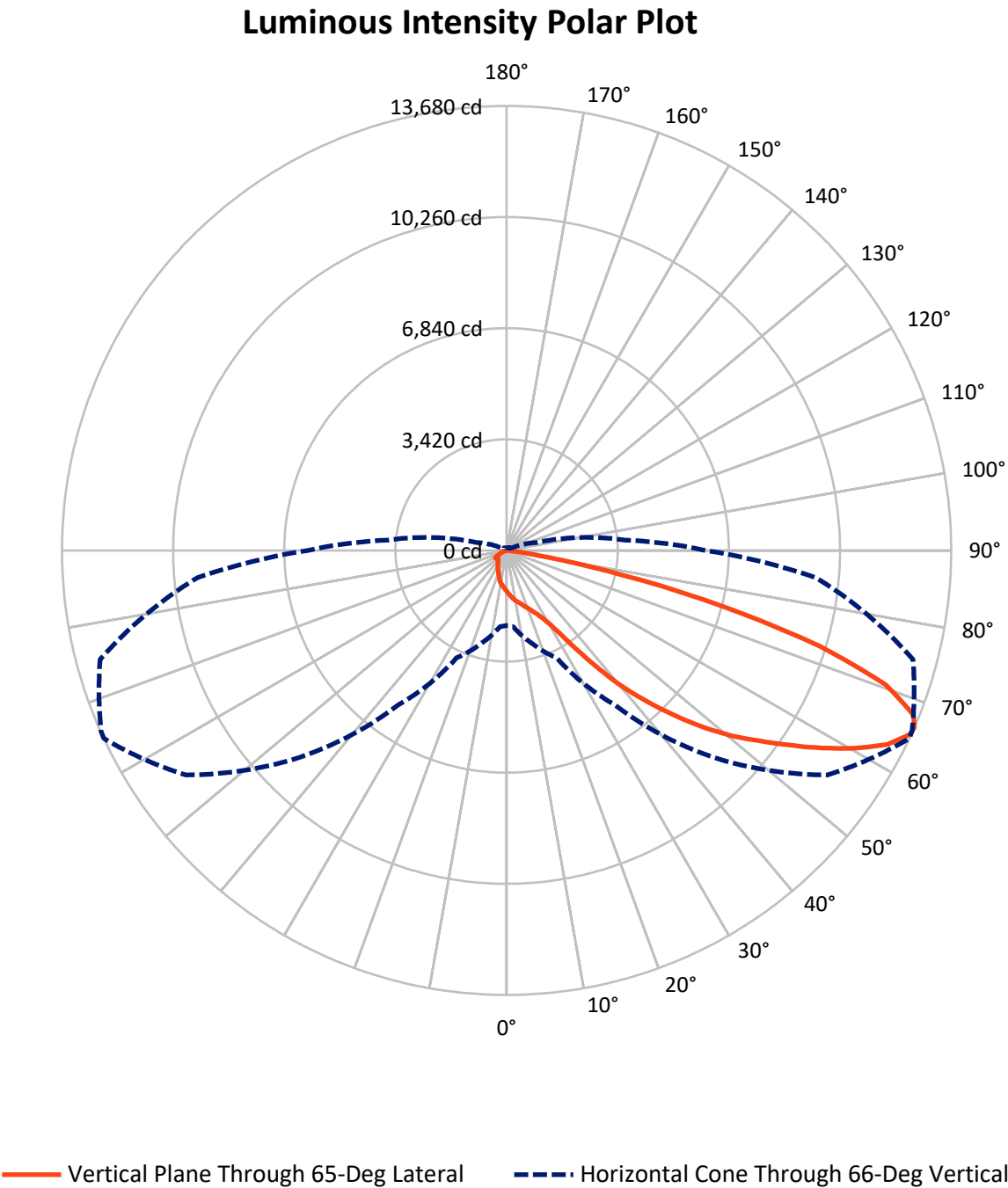
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1827.8	0.0	1827.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	13659.2	0.0	13659.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	15487.0	0.0	15487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.6	0.8
10°-20°	354.1	2.3
20°-30°	648.1	4.2
30°-40°	1317.0	8.5
40°-50°	2781.0	18.0
50°-60°	4275.4	27.6
60°-70°	4303.5	27.8
70°-80°	1608.0	10.4
80°-90°	80.3	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°	15487.0	100.0
0°-180°	15487.0	100.0

Coefficient of Utilization



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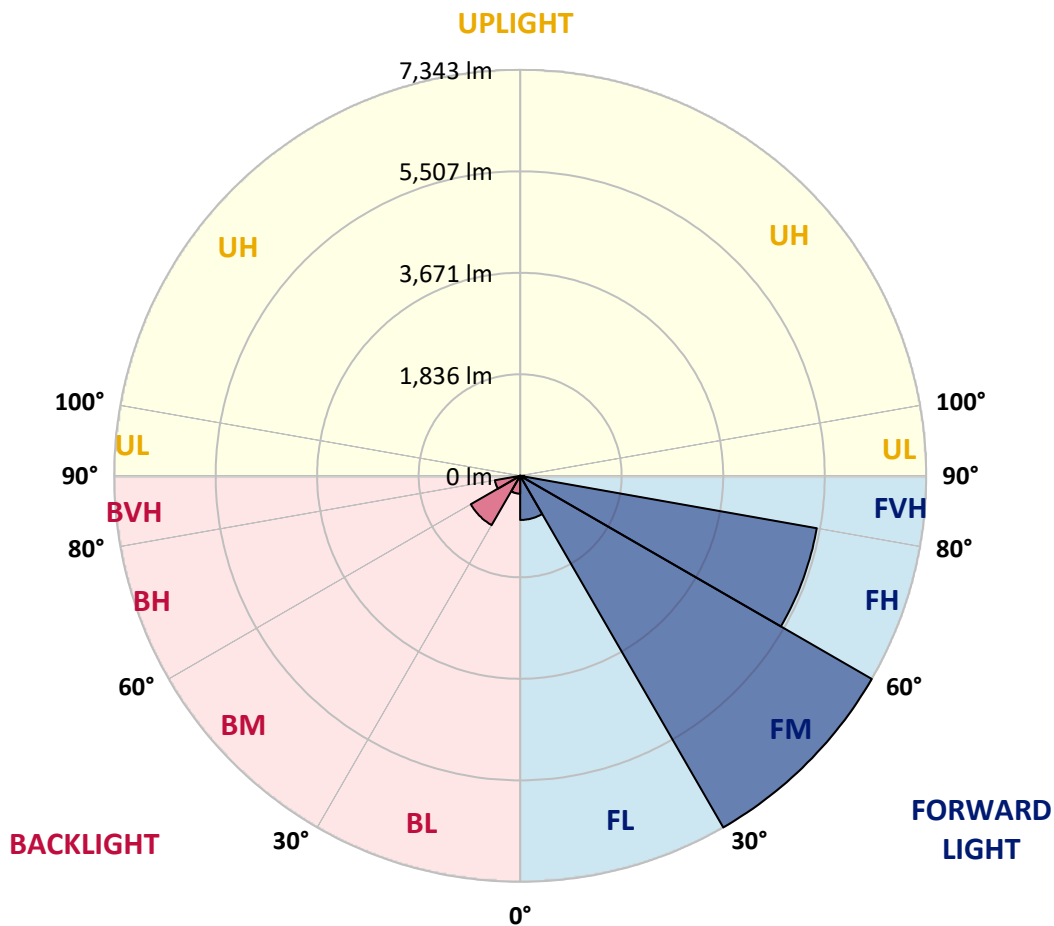
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.3	5.2			
FM	(30°-60°)	7342.8	47.4			
FH	(60°-80°)	5447.2	35.2			G3/7500
FVH	(80°-90°)	70.9	0.5			G1/100
BL	(0°-30°)	323.5	2.1	B1/500		
BM	(30°-60°)	1030.5	6.7	B2/2500		
BH	(60°-80°)	464.3	3.0	B1/500		G1/500
BVH	(80°-90°)	9.4	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°	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8
2.5°	1438.8	1441.6	1436.0	1424.7	1413.5	1399.5	1377.0	1340.4	1334.8	1309.5	1281.4
5°	1537.1	1542.8	1534.3	1531.5	1525.9	1506.2	1475.3	1421.9	1416.3	1365.7	1301.1
7.5°	1570.9	1579.3	1573.7	1573.7	1573.7	1565.3	1551.2	1503.4	1495.0	1430.4	1332.0
10°	1596.2	1601.8	1599.0	1610.2	1618.6	1613.0	1604.6	1576.5	1568.1	1503.4	1374.2
12.5°	1635.5	1638.3	1641.1	1646.7	1660.8	1666.4	1663.6	1638.3	1632.7	1587.7	1427.6
15°	1672.0	1672.0	1674.8	1700.1	1719.8	1731.0	1733.9	1714.2	1708.6	1672.0	1495.0
17.5°	1705.8	1708.6	1717.0	1745.1	1778.8	1801.3	1815.4	1806.9	1798.5	1770.4	1573.7
20°	1756.3	1762.0	1770.4	1809.7	1843.5	1880.0	1908.1	1905.3	1902.5	1882.8	1666.4
22.5°	1843.5	1849.1	1863.1	1899.7	1933.4	1978.3	2026.1	2023.3	2014.9	2000.8	1776.0
25°	1975.5	1975.5	1984.0	2014.9	2057.0	2110.4	2155.4	2163.8	2155.4	2147.0	1913.7
27.5°	2141.3	2144.1	2144.1	2177.9	2217.2	2284.6	2340.9	2349.3	2349.3	2340.9	2099.2
30°	2371.8	2363.3	2357.7	2385.8	2428.0	2526.3	2624.7	2641.5	2633.1	2647.2	2360.5
32.5°	2768.0	2753.9	2706.2	2711.8	2737.1	2872.0	3037.8	3096.8	3094.0	3119.3	2782.0
35°	3316.0	3287.9	3217.6	3158.6	3155.8	3301.9	3554.8	3776.8	3774.0	3861.1	3422.8
37.5°	3934.2	3970.7	3838.7	3737.5	3706.6	3821.8	4147.8	4628.3	4653.6	4805.3	4263.0
40°	4760.4	4782.9	4614.3	4470.9	4324.8	4367.0	4796.9	5544.4	5589.4	5758.0	5103.2
42.5°	5479.8	5502.3	5403.9	5229.7	5044.2	4965.5	5451.7	6376.2	6412.7	6646.0	5968.7
45°	5968.7	5985.6	6019.3	6036.2	5825.4	5662.4	6252.6	7230.5	7275.5	7545.2	6814.6
47.5°	6350.9	6365.0	6432.4	6601.0	6558.9	6429.6	7067.5	8118.5	8129.7	8430.4	7638.0
50°	6528.0	6561.7	6727.5	6986.0	7171.5	7208.0	7952.7	8958.7	8989.7	9276.3	8416.4
52.5°	6331.3	6342.5	6761.2	7247.4	7621.1	7992.1	8840.7	9737.1	9827.1	10040.6	9116.1
55°	5668.1	5749.6	6384.6	7238.9	7975.2	8736.7	9790.5	10577.4	10658.9	10793.8	9731.5
57.5°	4898.1	4988.0	5760.8	6876.4	8126.9	9425.2	10670.1	11471.0	11527.2	11563.7	10296.4
60°	4232.1	4316.4	5111.7	6182.3	7975.2	9911.4	11487.9	12359.0	12406.8	12308.4	10580.2
62.5°	3414.3	3498.6	4299.5	5263.4	7379.4	10009.7	12094.9	13148.7	13168.3	12901.4	10406.0
65°	2574.1	2630.3	3299.1	4125.3	6336.9	9487.0	12232.6	13640.4	13620.8	13072.8	9883.3
66°	2307.1	2354.9	2945.0	3647.6	5794.5	9009.3	12047.1	13679.8	13660.1	12946.3	9540.4
67.5°	1989.6	2003.6	2489.8	2984.4	4847.5	7994.9	11482.2	13499.9	13516.8	12597.9	8913.8
70°	1554.0	1551.2	1832.2	2076.7	3310.3	5687.7	9577.0	12367.4	12448.9	11282.7	7601.4
72.5°	994.8	961.1	1124.1	1270.2	1927.8	3301.9	6983.2	10080.0	10217.7	8863.2	5662.4
75°	592.9	559.2	598.6	635.1	924.5	1587.7	4105.6	6859.6	6991.6	5682.1	3369.4
77.5°	444.0	430.0	432.8	401.9	410.3	595.8	1874.4	3625.1	3720.6	2326.8	1278.6
80°	340.0	303.5	283.8	297.9	269.8	236.1	696.9	1247.7	1306.7	550.8	267.0
82.5°	227.6	196.7	182.7	199.5	171.4	132.1	168.6	241.7	236.1	148.9	104.0
85°	118.0	101.2	101.2	101.2	87.1	64.6	73.1	98.4	98.4	78.7	61.8
87.5°	33.7	30.9	36.5	33.7	25.3	25.3	28.1	33.7	33.7	30.9	28.1
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°	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8	1261.8
2.5°	1258.9	1247.7	1216.8	1194.3	1171.8	1152.2	1129.7	1124.1	1112.8	1115.6	1110.0
5°	1267.4	1236.5	1183.1	1132.5	1093.1	1059.4	1017.3	1000.4	977.9	969.5	963.9
7.5°	1278.6	1233.7	1155.0	1084.7	1017.3	949.8	882.4	843.0	817.8	806.5	798.1
10°	1303.9	1244.9	1140.9	1031.3	916.1	820.6	753.1	725.0	708.2	705.3	702.5
12.5°	1337.6	1261.8	1126.9	963.9	812.1	722.2	680.1	671.6	668.8	668.8	666.0
15°	1388.2	1289.9	1104.4	885.2	730.6	668.8	649.1	635.1	629.5	629.5	629.5
17.5°	1438.8	1323.6	1070.7	803.7	674.4	635.1	615.4	607.0	601.4	604.2	601.4
20°	1503.4	1362.9	1025.7	733.4	637.9	607.0	587.3	578.9	576.1	576.1	576.1
22.5°	1576.5	1407.9	969.5	680.1	607.0	578.9	559.2	550.8	545.2	548.0	548.0
25°	1674.8	1464.1	910.5	626.7	576.1	550.8	528.3	517.1	517.1	519.9	522.7
27.5°	1801.3	1531.5	851.5	592.9	548.0	522.7	497.4	486.2	489.0	494.6	494.6
30°	1986.8	1624.3	792.5	556.4	517.1	489.0	466.5	455.2	460.9	472.1	472.1
32.5°	2250.9	1776.0	741.9	514.3	472.1	441.2	418.7	410.3	424.3	446.8	446.8
35°	2723.0	2054.2	711.0	472.1	424.3	387.8	359.7	351.3	370.9	399.0	399.0
37.5°	3355.3	2501.0	722.2	435.6	385.0	342.8	311.9	300.7	314.7	340.0	348.5
40°	4060.7	3040.6	820.6	404.7	348.5	306.3	275.4	264.2	272.6	283.8	286.6
42.5°	4766.0	3613.8	1006.0	382.2	320.4	275.4	247.3	238.9	244.5	247.3	250.1
45°	5468.5	4181.5	1239.3	368.1	295.1	250.1	222.0	222.0	224.8	224.8	224.8
47.5°	6134.5	4735.1	1483.8	365.3	272.6	224.8	202.3	205.1	205.1	208.0	208.0
50°	6764.0	5229.7	1731.0	373.7	252.9	202.3	185.5	185.5	185.5	188.3	185.5
52.5°	7289.5	5662.4	1989.6	387.8	233.2	185.5	168.6	168.6	168.6	171.4	168.6
55°	7786.9	6055.9	2253.7	407.5	216.4	171.4	154.6	148.9	148.9	151.7	148.9
57.5°	8191.6	6317.2	2503.8	410.3	202.3	157.4	143.3	134.9	134.9	134.9	134.9
60°	8208.4	6165.5	2576.9	359.7	185.5	143.3	129.3	118.0	120.8	120.8	120.8
62.5°	7671.7	5367.4	2071.1	269.8	165.8	129.3	118.0	106.8	106.8	106.8	106.8
65°	6617.9	4175.9	1214.0	213.6	143.3	115.2	104.0	95.5	95.5	95.5	92.7
66°	6123.3	3661.6	930.2	193.9	134.9	112.4	101.2	92.7	89.9	87.1	87.1
67.5°	5316.8	2894.4	581.7	171.4	123.6	104.0	92.7	84.3	81.5	78.7	78.7
70°	4004.5	1837.8	283.8	132.1	106.8	89.9	81.5	73.1	70.3	67.4	64.6
72.5°	2810.1	1076.3	148.9	101.2	87.1	78.7	70.3	61.8	59.0	56.2	56.2
75°	1587.7	519.9	98.4	73.1	70.3	64.6	59.0	50.6	47.8	47.8	47.8
77.5°	601.4	179.8	67.4	53.4	56.2	50.6	42.2	42.2	39.3	42.2	39.3
80°	157.4	78.7	42.2	39.3	42.2	36.5	30.9	33.7	33.7	33.7	33.7
82.5°	84.3	45.0	25.3	28.1	25.3	25.3	19.7	22.5	25.3	22.5	25.3
85°	59.0	22.5	14.1	14.1	11.2	11.2	8.4	11.2	14.1	11.2	11.2
87.5°	30.9	8.4	8.4	8.4	8.4	5.6	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)