

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: P1211659

Luminaire Tested: **ARCH4-70-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13040 lumens
Efficiency: N/A
Efficacy: 176.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.8
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



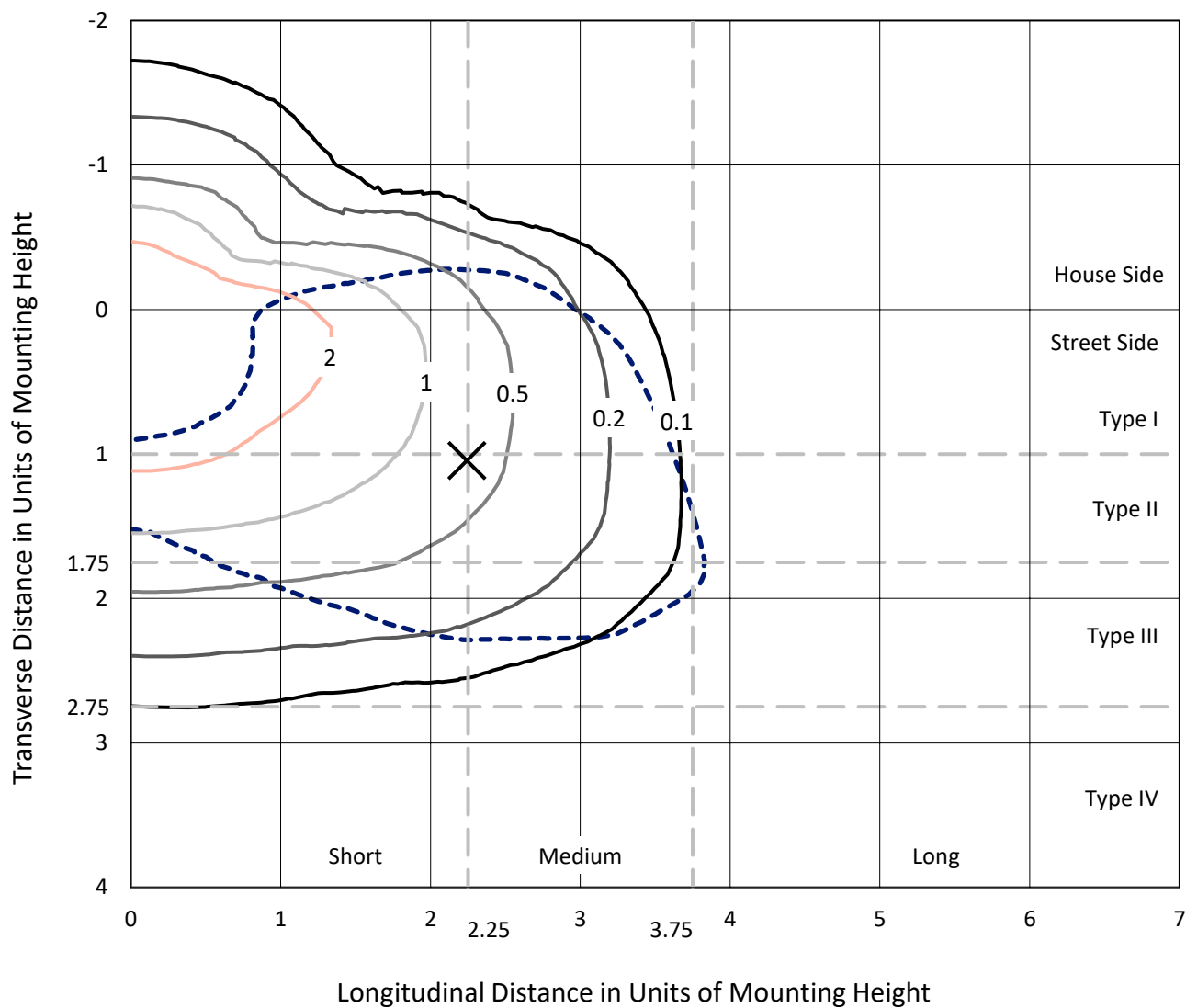
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

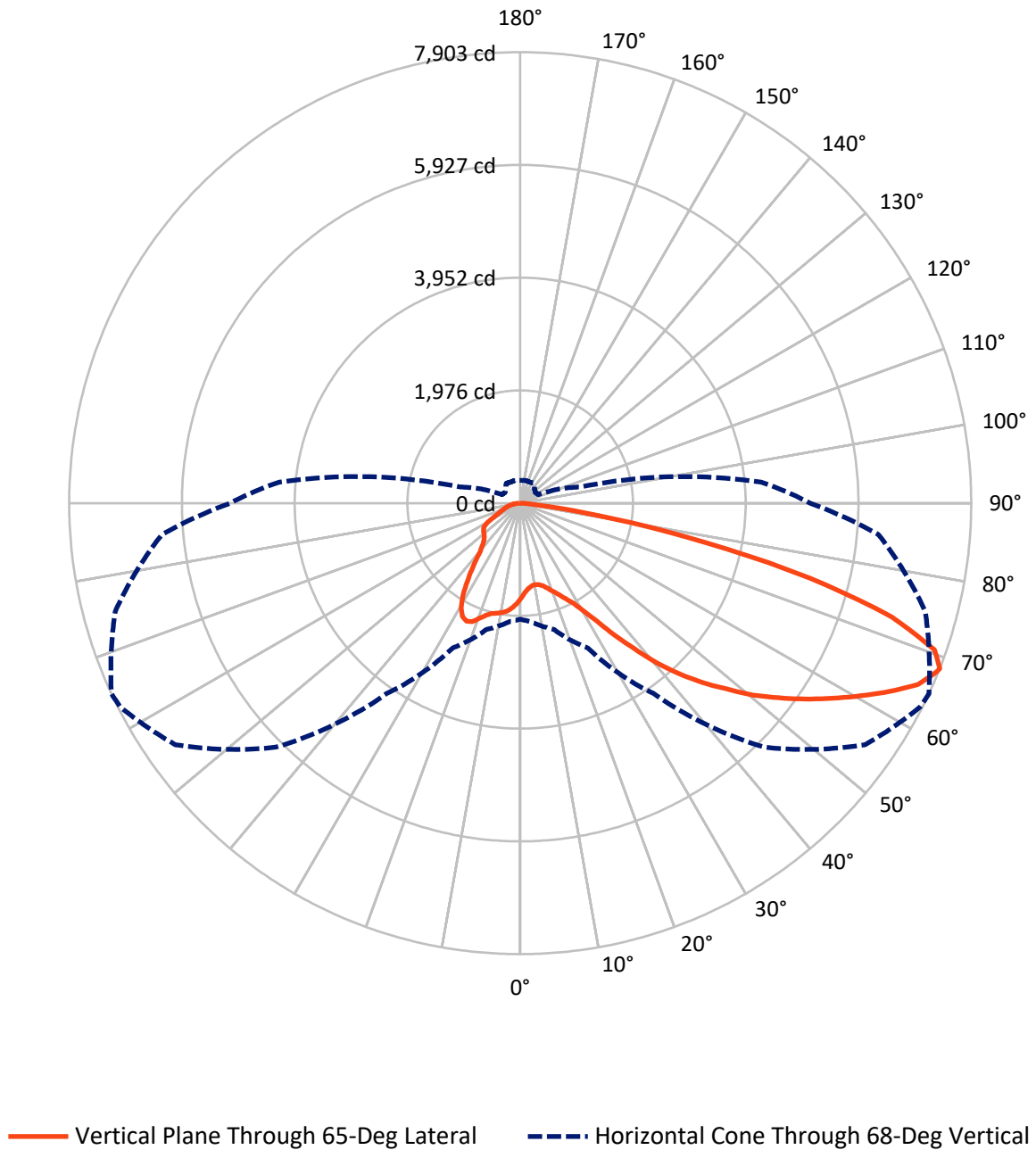


Based on 25 foot mounting height. Maximum calculated value = 3 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3197.0	0.0	3197.0
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9843.0	0.0	9843.0
	% Fixture	75.5	0.0	75.5
Total	Lumens	13040.0	0.0	13040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.2
10°-20°	518.5	4.0
20°-30°	938.5	7.2
30°-40°	1476.3	11.3
40°-50°	2198.8	16.9
50°-60°	2884.5	22.1
60°-70°	3154.3	24.2
70°-80°	1560.8	12.0
80°-90°	148.9	1.1
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°	13040.0	100.0
0°-180°	13040.0	100.0

Coefficient of Utilization



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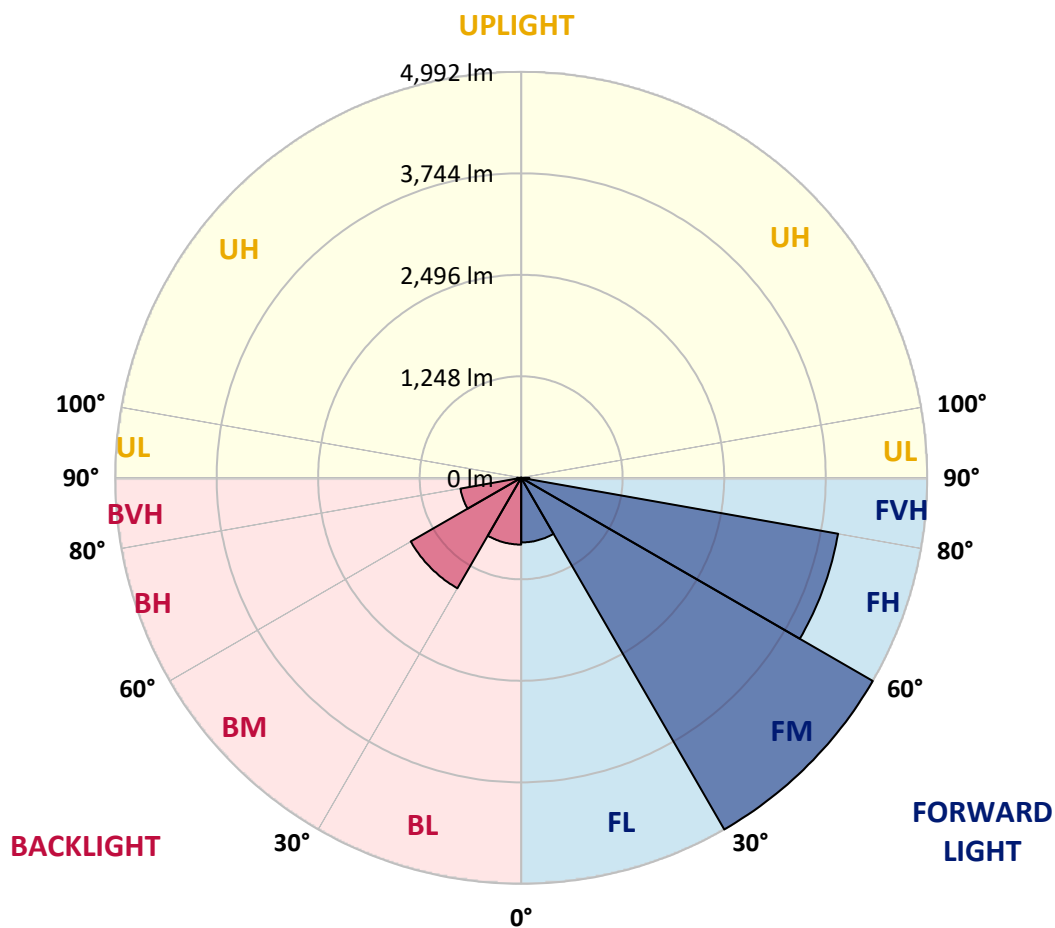
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.9	6.1			
FM	(30°-60°)	4991.5	38.3			
FH	(60°-80°)	3956.4	30.3			G2/5000
FVH	(80°-90°)	100.1	0.8			G2/225
BL	(0°-30°)	821.3	6.3	B2/1000		
BM	(30°-60°)	1568.1	12.0	B2/2500		
BH	(60°-80°)	758.8	5.8	B2/1000		G2/1000
BVH	(80°-90°)	48.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4
2.5°	1454.5	1451.1	1459.5	1467.9	1486.4	1508.3	1538.6	1563.8	1567.1	1614.2	1651.2
5°	1368.7	1363.7	1372.1	1382.2	1390.6	1417.5	1449.4	1486.4	1501.6	1570.5	1649.5
7.5°	1377.1	1375.5	1378.8	1375.5	1375.5	1387.2	1409.1	1446.1	1462.9	1545.3	1657.9
10°	1425.9	1429.3	1430.9	1420.9	1410.8	1405.7	1412.4	1437.7	1449.4	1547.0	1694.9
12.5°	1506.6	1511.7	1513.3	1494.8	1481.4	1459.5	1447.8	1457.8	1466.3	1563.8	1747.1
15°	1615.9	1619.3	1607.5	1595.7	1562.1	1535.2	1506.6	1498.2	1501.6	1599.1	1805.9
17.5°	1743.7	1738.7	1738.7	1710.1	1666.4	1624.3	1577.2	1570.5	1570.5	1656.3	1890.0
20°	1883.3	1888.3	1873.2	1834.5	1790.8	1725.2	1678.1	1647.9	1651.2	1721.8	1992.6
22.5°	2085.0	2093.5	2053.1	1997.6	1930.3	1854.7	1787.4	1738.7	1740.3	1807.6	2098.5
25°	2302.0	2305.3	2280.1	2206.1	2115.3	2007.7	1918.6	1856.4	1854.7	1903.4	2234.7
27.5°	2523.9	2539.0	2488.6	2418.0	2333.9	2199.4	2081.7	1997.6	1984.2	2049.7	2404.5
30°	2752.6	2771.1	2722.3	2653.4	2549.1	2434.8	2295.2	2197.7	2189.3	2276.7	2631.5
32.5°	2983.0	2988.0	2949.3	2892.2	2798.0	2690.4	2577.7	2470.1	2461.7	2604.6	2925.8
35°	3171.3	3186.4	3159.5	3146.1	3077.1	2977.9	2868.6	2806.4	2828.3	3011.5	3307.5
37.5°	3398.3	3413.4	3383.2	3379.8	3357.9	3272.2	3196.5	3201.6	3223.4	3472.3	3709.4
40°	3726.2	3743.0	3665.6	3632.0	3632.0	3547.9	3522.7	3642.1	3670.7	3926.3	4128.1
42.5°	4003.6	4030.5	3985.1	3963.3	3897.7	3838.8	3869.1	4037.2	4086.0	4360.1	4492.9
45°	4138.1	4158.3	4212.1	4276.0	4212.1	4109.6	4223.9	4413.9	4482.8	4760.3	4857.8
47.5°	4210.4	4228.9	4291.2	4462.7	4506.4	4420.6	4582.1	4819.1	4866.2	5157.1	5205.9
50°	4220.5	4279.4	4360.1	4531.6	4731.7	4743.5	4941.9	5231.1	5286.6	5547.2	5511.9
52.5°	4138.1	4161.7	4328.1	4617.4	4839.3	5041.1	5333.7	5626.3	5666.6	5913.8	5782.6
55°	4003.6	4037.2	4203.7	4597.2	4943.6	5323.6	5732.2	6014.7	6060.1	6270.3	6033.2
57.5°	3882.6	3899.4	4077.6	4538.3	5047.8	5606.1	6087.0	6419.9	6450.2	6583.0	6218.1
60°	3748.0	3766.5	3944.8	4412.2	5125.2	5819.6	6456.9	6828.5	6855.4	6912.6	6433.4
62.5°	3400.0	3448.7	3672.4	4203.7	5105.0	6063.4	6852.1	7232.1	7265.7	7203.5	6603.2
65°	2761.0	2829.9	3104.0	3731.2	4916.7	6221.5	7174.9	7603.7	7660.9	7422.1	6648.6
67.5°	2143.9	2192.7	2412.9	2961.1	4255.8	6142.5	7383.4	7859.3	7876.1	7386.8	6396.4
68°	2032.9	2081.7	2291.9	2799.7	4072.6	6048.3	7378.4	7866.0	7903.0	7348.1	6298.8
70°	1555.4	1610.9	1811.0	2217.9	3282.3	5449.7	7070.7	7704.6	7699.5	6880.6	5693.5
72.5°	971.9	1003.8	1141.7	1399.0	2170.8	4146.5	6001.2	6794.9	6808.3	5609.4	4366.8
75°	617.1	617.1	610.4	677.6	1113.1	2362.5	4461.0	5231.1	5241.2	3928.0	2752.6
77.5°	536.4	521.3	449.0	380.0	443.9	918.1	2639.9	3378.1	3322.6	2115.3	1306.5
80°	452.3	427.1	368.2	306.0	285.9	287.5	1013.9	1715.1	1641.1	761.7	433.8
82.5°	326.2	304.3	277.4	240.5	220.3	171.5	211.9	496.0	484.3	220.3	141.2
85°	176.6	159.7	156.4	158.1	132.8	105.9	89.1	109.3	109.3	95.8	80.7
87.5°	62.2	45.4	53.8	60.5	52.1	43.7	35.3	42.0	43.7	42.0	38.7
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°	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4	1666.4
2.5°	1673.1	1689.9	1730.2	1765.6	1790.8	1812.6	1824.4	1829.5	1841.2	1842.9	1839.5
5°	1686.5	1730.2	1790.8	1842.9	1871.5	1883.3	1886.6	1888.3	1883.3	1886.6	1883.3
7.5°	1721.8	1777.3	1863.1	1908.5	1913.5	1895.0	1896.7	1890.0	1896.7	1903.4	1903.4
10°	1775.7	1846.3	1927.0	1943.8	1921.9	1911.9	1932.0	1972.4	1985.8	2004.3	2004.3
12.5°	1846.3	1930.3	1987.5	1972.4	1952.2	1985.8	2044.7	2085.0	2098.5	2105.2	2100.2
15°	1927.0	2017.8	2046.4	1995.9	2032.9	2105.2	2125.4	2101.9	2068.2	2053.1	2061.5
17.5°	2029.6	2105.2	2088.4	2054.8	2138.9	2148.9	2083.4	2007.7	1953.9	1933.7	1947.2
20°	2137.2	2202.7	2125.4	2140.5	2192.7	2085.0	1960.6	1863.1	1816.0	1807.6	1821.1
22.5°	2251.5	2293.5	2162.4	2239.7	2162.4	1943.8	1794.1	1743.7	1731.9	1745.4	1757.2
25°	2381.0	2375.9	2226.3	2270.0	2049.7	1770.6	1681.5	1678.1	1678.1	1686.5	1703.3
27.5°	2527.3	2448.2	2290.2	2229.7	1854.7	1627.7	1610.9	1612.5	1607.5	1609.2	1617.6
30°	2697.1	2545.8	2360.8	2096.8	1636.1	1520.1	1513.3	1508.3	1496.5	1493.2	1496.5
32.5°	2910.7	2648.3	2433.1	1878.2	1444.4	1409.1	1405.7	1378.8	1350.2	1346.9	1358.6
35°	3181.4	2835.0	2470.1	1604.1	1286.3	1284.7	1272.9	1230.8	1193.9	1193.9	1185.4
37.5°	3490.8	3075.4	2485.2	1336.8	1155.2	1163.6	1130.0	1076.2	1047.6	1030.8	1035.8
40°	3806.9	3349.5	2483.6	1103.1	1040.8	1042.5	1017.3	951.7	881.1	839.1	849.2
42.5°	4111.2	3598.4	2439.8	978.6	948.4	943.3	923.1	834.0	775.2	741.5	743.2
45°	4355.1	3855.6	2372.6	904.6	864.3	872.7	827.3	773.5	719.7	689.4	687.7
47.5°	4598.9	4050.7	2265.0	859.2	802.1	786.9	768.4	731.4	691.1	657.5	659.1
50°	4820.8	4217.2	2164.1	829.0	744.9	706.2	709.6	687.7	652.4	622.2	620.5
52.5°	4977.2	4326.5	2108.6	812.2	676.0	633.9	645.7	633.9	600.3	578.4	576.7
55°	5133.6	4410.5	2127.1	790.3	600.3	566.7	586.8	583.5	565.0	558.3	559.9
57.5°	5259.7	4474.4	2192.7	749.9	528.0	507.8	541.4	531.3	517.9	519.6	519.6
60°	5382.4	4556.8	2270.0	657.5	465.8	467.5	499.4	480.9	472.5	487.6	489.3
62.5°	5510.2	4645.9	2206.1	522.9	412.0	423.7	460.7	445.6	449.0	470.8	477.5
65°	5495.1	4637.5	1797.5	428.8	364.9	388.4	443.9	438.9	440.5	449.0	452.3
67.5°	5185.7	4341.6	1235.9	364.9	331.3	359.8	430.5	410.3	412.0	406.9	408.6
68°	5081.5	4237.3	1089.6	354.8	324.5	353.1	423.7	405.2	406.9	401.9	400.2
70°	4513.1	3628.6	689.4	312.8	301.0	334.6	390.1	383.4	381.7	378.3	378.3
72.5°	3440.3	2678.6	363.2	270.7	274.1	306.0	348.1	361.5	353.1	354.8	364.9
75°	2278.4	1610.9	252.2	232.0	240.5	262.3	309.4	336.3	327.9	332.9	327.9
77.5°	1205.6	867.6	201.8	196.7	196.7	211.9	255.6	297.6	297.6	294.3	289.2
80°	395.1	306.0	161.4	154.7	158.1	166.5	205.1	243.8	248.9	242.1	238.8
82.5°	132.8	141.2	121.1	112.7	116.0	122.7	154.7	186.6	188.3	174.9	171.5
85°	82.4	94.2	75.7	74.0	74.0	75.7	94.2	102.6	94.2	84.1	87.4
87.5°	38.7	47.1	35.3	30.3	25.2	21.9	16.8	6.7	6.7	3.4	3.4
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)