

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: P1210075

Luminaire Tested: **ARCH2-100-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210075
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: ARCH2-100-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12344 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 103.3
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

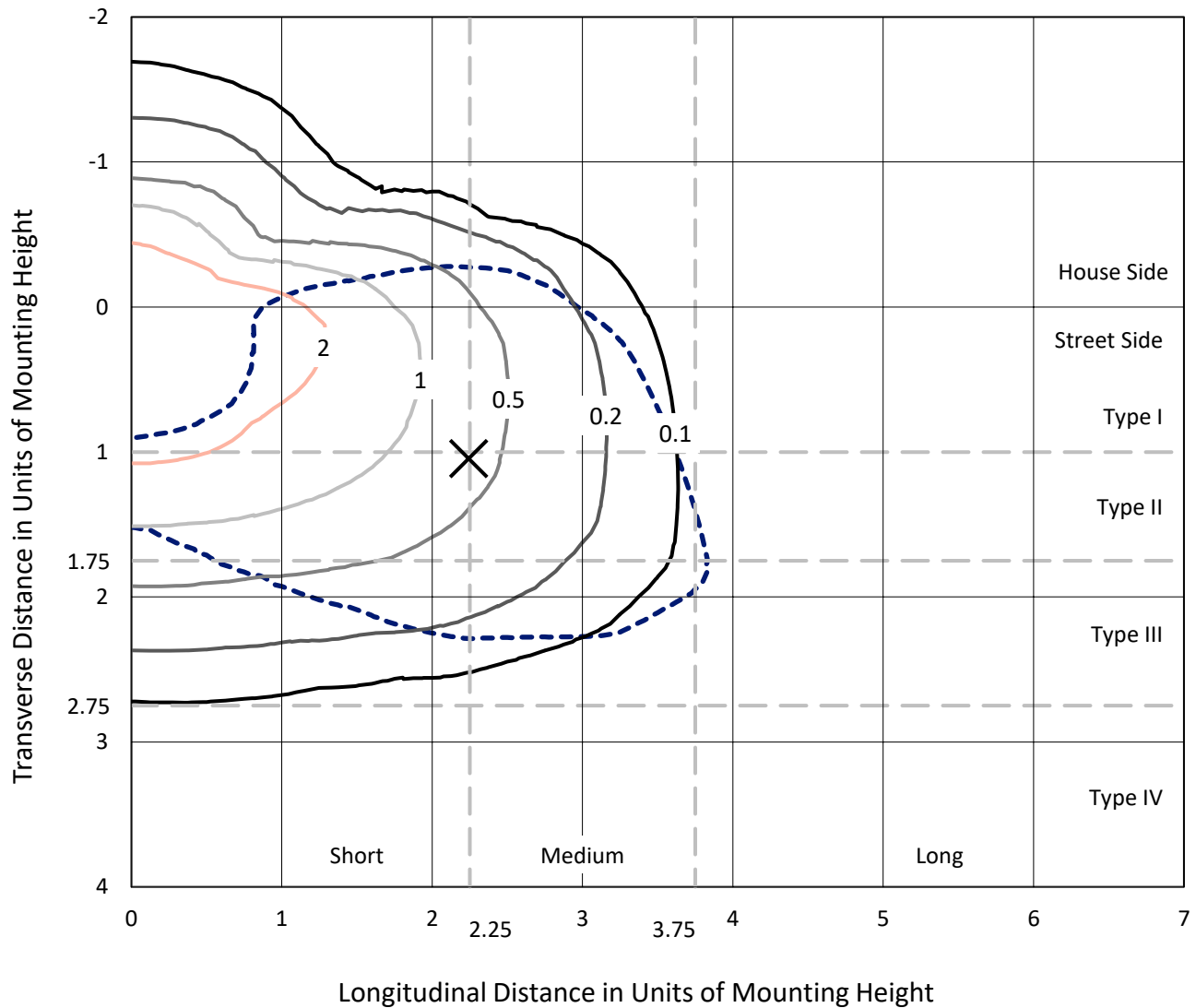


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

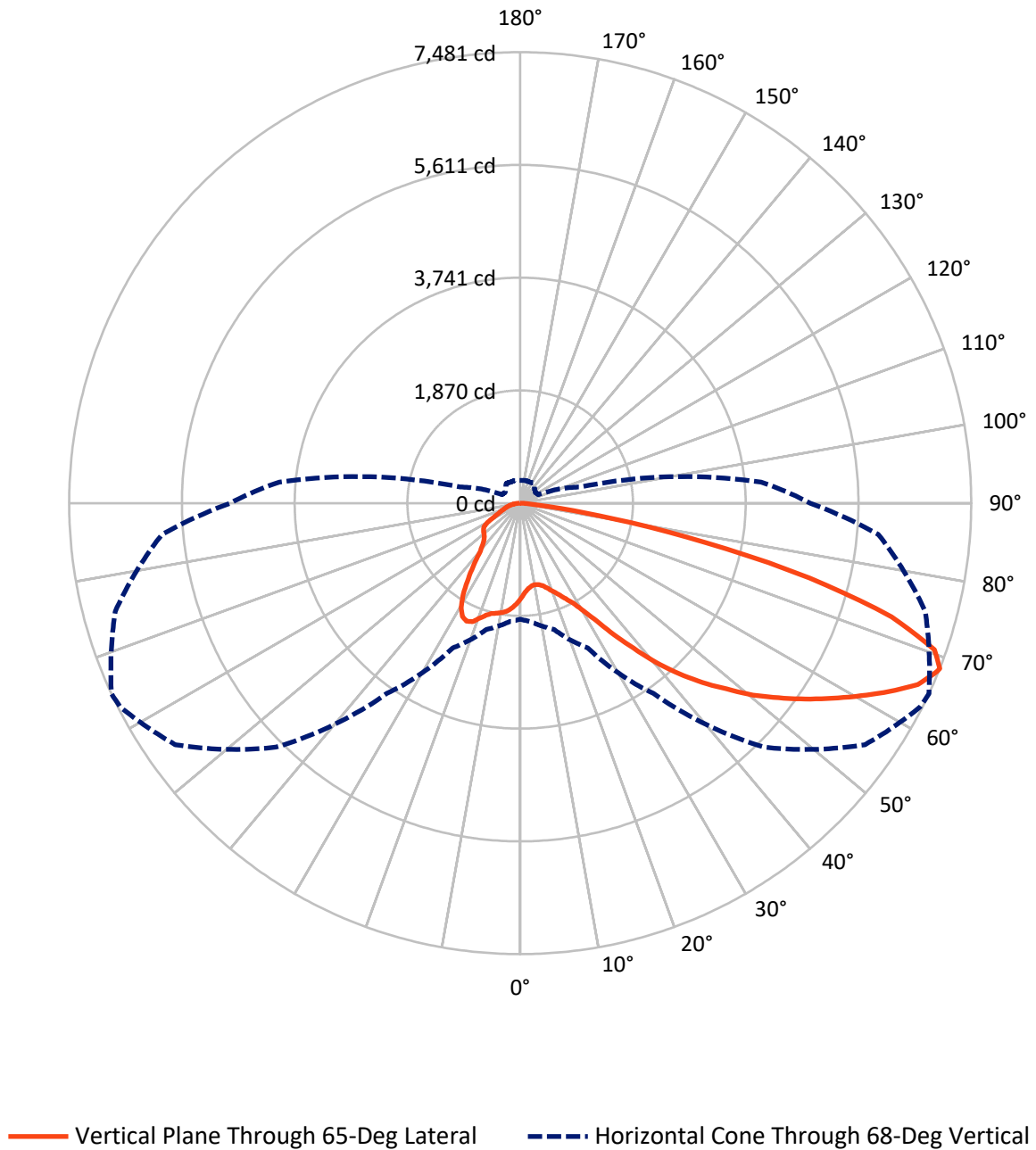


Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3026.4	0.0	3026.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9317.6	0.0	9317.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	12344.0	0.0	12344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.2
10°-20°	490.8	4.0
20°-30°	888.4	7.2
30°-40°	1397.5	11.3
40°-50°	2081.5	16.9
50°-60°	2730.5	22.1
60°-70°	2986.0	24.2
70°-80°	1477.5	12.0
80°-90°	140.9	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°	12344.0	100.0
0°-180°	12344.0	100.0

Coefficient of Utilization



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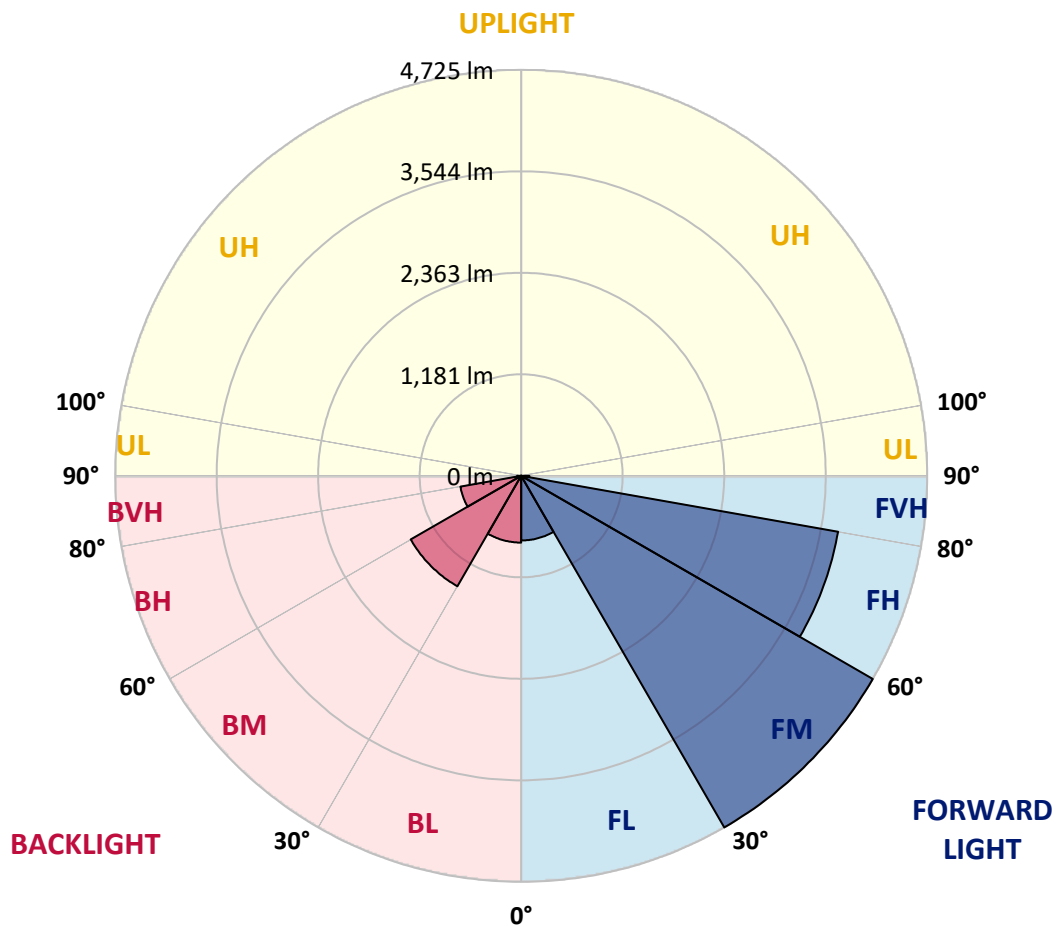
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	752.5	6.1			
FM	(30°-60°)	4725.1	38.3			
FH	(60°-80°)	3745.2	30.3			G2/5000
FVH	(80°-90°)	94.8	0.8			G1/100
BL	(0°-30°)	777.5	6.3	B2/1000		
BM	(30°-60°)	1484.4	12.0	B2/2500		
BH	(60°-80°)	718.3	5.8	B2/1000		G2/1000
BVH	(80°-90°)	46.1	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°	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1376.9	1373.7	1381.6	1389.6	1407.1	1427.8	1456.4	1480.3	1483.5	1528.1	1563.1
5°	1295.7	1290.9	1298.9	1308.4	1316.4	1341.8	1372.1	1407.1	1421.4	1486.7	1561.5
7.5°	1303.6	1302.0	1305.2	1302.0	1302.0	1313.2	1333.9	1368.9	1384.8	1462.8	1569.5
10°	1349.8	1353.0	1354.6	1345.0	1335.5	1330.7	1337.1	1360.9	1372.1	1464.4	1604.5
12.5°	1426.2	1431.0	1432.6	1415.1	1402.3	1381.6	1370.5	1380.0	1388.0	1480.3	1653.8
15°	1529.7	1532.8	1521.7	1510.6	1478.7	1453.3	1426.2	1418.2	1421.4	1513.7	1709.5
17.5°	1650.6	1645.9	1645.9	1618.8	1577.4	1537.6	1493.1	1486.7	1486.7	1567.9	1789.1
20°	1782.7	1787.5	1773.2	1736.6	1695.2	1633.1	1588.6	1559.9	1563.1	1629.9	1886.2
22.5°	1973.8	1981.7	1943.5	1891.0	1827.3	1755.7	1692.0	1645.9	1647.4	1711.1	1986.5
25°	2179.1	2182.3	2158.4	2088.4	2002.4	1900.5	1816.2	1757.3	1755.7	1801.8	2115.4
27.5°	2389.2	2403.5	2355.8	2288.9	2209.3	2082.0	1970.6	1891.0	1878.3	1940.3	2276.2
30°	2605.7	2623.2	2577.0	2511.8	2413.1	2304.8	2172.7	2080.4	2072.4	2155.2	2491.1
32.5°	2823.7	2828.5	2791.9	2737.8	2648.7	2546.8	2440.1	2338.3	2330.3	2465.6	2769.6
35°	3002.0	3016.3	2990.9	2978.1	2912.9	2819.0	2715.5	2656.6	2677.3	2850.8	3131.0
37.5°	3216.9	3231.2	3202.6	3199.4	3178.7	3097.5	3025.9	3030.7	3051.4	3286.9	3511.4
40°	3527.3	3543.2	3470.0	3438.2	3438.2	3358.6	3334.7	3447.7	3474.8	3716.7	3907.7
42.5°	3789.9	3815.4	3772.4	3751.7	3689.7	3633.9	3662.6	3821.8	3867.9	4127.4	4253.1
45°	3917.3	3936.4	3987.3	4047.8	3987.3	3890.2	3998.4	4178.3	4243.6	4506.2	4598.5
47.5°	3985.7	4003.2	4062.1	4224.5	4265.9	4184.7	4337.5	4561.9	4606.5	4881.9	4928.0
50°	3995.3	4051.0	4127.4	4289.7	4479.2	4490.3	4678.1	4951.9	5004.4	5251.1	5217.7
52.5°	3917.3	3939.6	4097.1	4370.9	4581.0	4772.0	5049.0	5326.0	5364.2	5598.1	5474.0
55°	3789.9	3821.8	3979.3	4351.8	4679.7	5039.4	5426.2	5693.6	5736.6	5935.6	5711.2
57.5°	3675.3	3691.2	3860.0	4296.1	4778.4	5306.9	5762.1	6077.3	6105.9	6231.7	5886.2
60°	3548.0	3565.5	3734.2	4176.7	4851.6	5509.0	6112.3	6464.1	6489.5	6543.6	6090.0
62.5°	3218.5	3264.7	3476.4	3979.3	4832.5	5739.8	6486.3	6846.1	6877.9	6819.0	6250.8
65°	2613.6	2678.9	2938.3	3532.1	4654.2	5889.4	6791.9	7197.8	7252.0	7025.9	6293.7
67.5°	2029.5	2075.6	2284.1	2803.1	4028.7	5814.6	6989.3	7439.8	7455.7	6992.5	6055.0
68°	1924.4	1970.6	2169.5	2650.2	3855.2	5725.5	6984.5	7446.2	7481.2	6955.9	5962.7
70°	1472.4	1524.9	1714.3	2099.5	3107.1	5158.8	6693.3	7293.3	7288.6	6513.4	5389.6
72.5°	920.0	950.3	1080.8	1324.3	2054.9	3925.2	5680.9	6432.2	6445.0	5310.0	4133.7
75°	584.2	584.2	577.8	641.5	1053.7	2236.4	4222.9	4951.9	4961.4	3718.3	2605.7
77.5°	507.8	493.4	425.0	359.7	420.2	869.1	2499.0	3197.8	3145.3	2002.4	1236.8
80°	428.2	404.3	348.6	289.7	270.6	272.2	959.8	1623.6	1553.5	721.1	410.7
82.5°	308.8	288.1	262.6	227.6	208.5	162.4	200.6	469.6	458.4	208.5	133.7
85°	167.1	151.2	148.0	149.6	125.7	100.3	84.4	103.5	103.5	90.7	76.4
87.5°	58.9	43.0	50.9	57.3	49.3	41.4	33.4	39.8	41.4	39.8	36.6
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°	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1583.8	1599.7	1637.9	1671.3	1695.2	1715.9	1727.0	1731.8	1743.0	1744.5	1741.4
5°	1596.5	1637.9	1695.2	1744.5	1771.6	1782.7	1785.9	1787.5	1782.7	1785.9	1782.7
7.5°	1629.9	1682.5	1763.6	1806.6	1811.4	1793.9	1795.5	1789.1	1795.5	1801.8	1801.8
10°	1680.9	1747.7	1824.1	1840.0	1819.4	1809.8	1828.9	1867.1	1879.8	1897.4	1897.4
12.5°	1747.7	1827.3	1881.4	1867.1	1848.0	1879.8	1935.6	1973.8	1986.5	1992.9	1988.1
15°	1824.1	1910.1	1937.1	1889.4	1924.4	1992.9	2012.0	1989.7	1957.8	1943.5	1951.5
17.5°	1921.2	1992.9	1976.9	1945.1	2024.7	2034.2	1972.2	1900.5	1849.6	1830.5	1843.2
20°	2023.1	2085.2	2012.0	2026.3	2075.6	1973.8	1856.0	1763.6	1719.1	1711.1	1723.9
22.5°	2131.3	2171.1	2047.0	2120.2	2047.0	1840.0	1698.4	1650.6	1639.5	1652.2	1663.4
25°	2253.9	2249.1	2107.5	2148.8	1940.3	1676.1	1591.7	1588.6	1588.6	1596.5	1612.4
27.5°	2392.4	2317.6	2167.9	2110.6	1755.7	1540.8	1524.9	1526.5	1521.7	1523.3	1531.3
30°	2553.1	2409.9	2234.8	1984.9	1548.8	1438.9	1432.6	1427.8	1416.6	1413.5	1416.6
32.5°	2755.3	2507.0	2303.2	1778.0	1367.3	1333.9	1330.7	1305.2	1278.2	1275.0	1286.1
35°	3011.6	2683.7	2338.3	1518.5	1217.7	1216.1	1204.9	1165.2	1130.1	1130.1	1122.2
37.5°	3304.4	2911.3	2352.6	1265.4	1093.5	1101.5	1069.6	1018.7	991.7	975.7	980.5
40°	3603.7	3170.7	2351.0	1044.2	985.3	986.9	963.0	900.9	834.1	794.3	803.8
42.5°	3891.8	3406.3	2309.6	926.4	897.7	893.0	873.9	789.5	733.8	702.0	703.5
45°	4122.6	3649.9	2245.9	856.4	818.2	826.1	783.1	732.2	681.3	652.6	651.0
47.5°	4353.4	3834.5	2144.1	813.4	759.3	744.9	727.4	692.4	654.2	622.4	624.0
50°	4563.5	3992.1	2048.6	784.7	705.1	668.5	671.7	651.0	617.6	588.9	587.4
52.5°	4711.5	4095.5	1996.0	768.8	639.9	600.1	611.2	600.1	568.3	547.6	546.0
55°	4859.6	4175.1	2013.5	748.1	568.3	536.4	555.5	552.3	534.8	528.5	530.0
57.5°	4979.0	4235.6	2075.6	709.9	499.8	480.7	512.5	503.0	490.3	491.8	491.8
60°	5095.2	4313.6	2148.8	622.4	440.9	442.5	472.7	455.2	447.3	461.6	463.2
62.5°	5216.1	4398.0	2088.4	495.0	390.0	401.1	436.1	421.8	425.0	445.7	452.1
65°	5201.8	4390.0	1701.6	405.9	345.4	367.7	420.2	415.4	417.0	425.0	428.2
67.5°	4908.9	4109.9	1169.9	345.4	313.6	340.6	407.5	388.4	390.0	385.2	386.8
68°	4810.2	4011.2	1031.4	335.9	307.2	334.3	401.1	383.6	385.2	380.4	378.8
70°	4272.2	3435.0	652.6	296.1	284.9	316.8	369.3	362.9	361.3	358.1	358.1
72.5°	3256.7	2535.6	343.8	256.3	259.5	289.7	329.5	342.2	334.3	335.9	345.4
75°	2156.8	1524.9	238.8	219.7	227.6	248.3	292.9	318.3	310.4	315.2	310.4
77.5°	1141.3	821.3	191.0	186.2	186.2	200.6	241.9	281.7	281.7	278.6	273.8
80°	374.1	289.7	152.8	146.4	149.6	157.6	194.2	230.8	235.6	229.2	226.0
82.5°	125.7	133.7	114.6	106.6	109.8	116.2	146.4	176.7	178.3	165.5	162.4
85°	78.0	89.1	71.6	70.0	70.0	71.6	89.1	97.1	89.1	79.6	82.8
87.5°	36.6	44.6	33.4	28.7	23.9	20.7	15.9	6.4	6.4	3.2	3.2
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)