

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: P1210811

Luminaire Tested: **ARCH3-80-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210811
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: ARCH3-80-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12253 lumens
Efficiency: N/A
Efficacy: 149.6 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 81.9
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



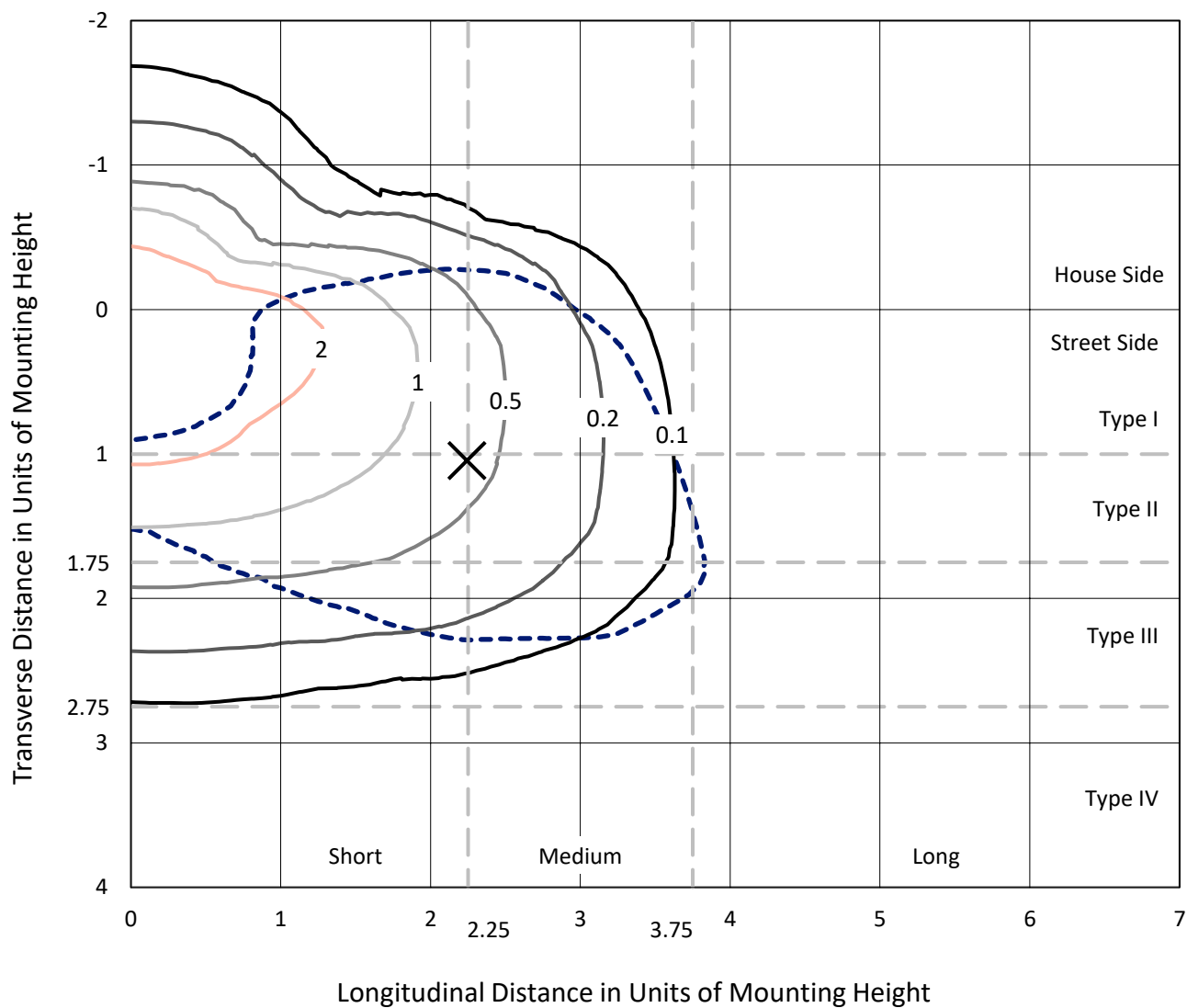
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Iso-Footcandle Lines of Horizontal Illumination

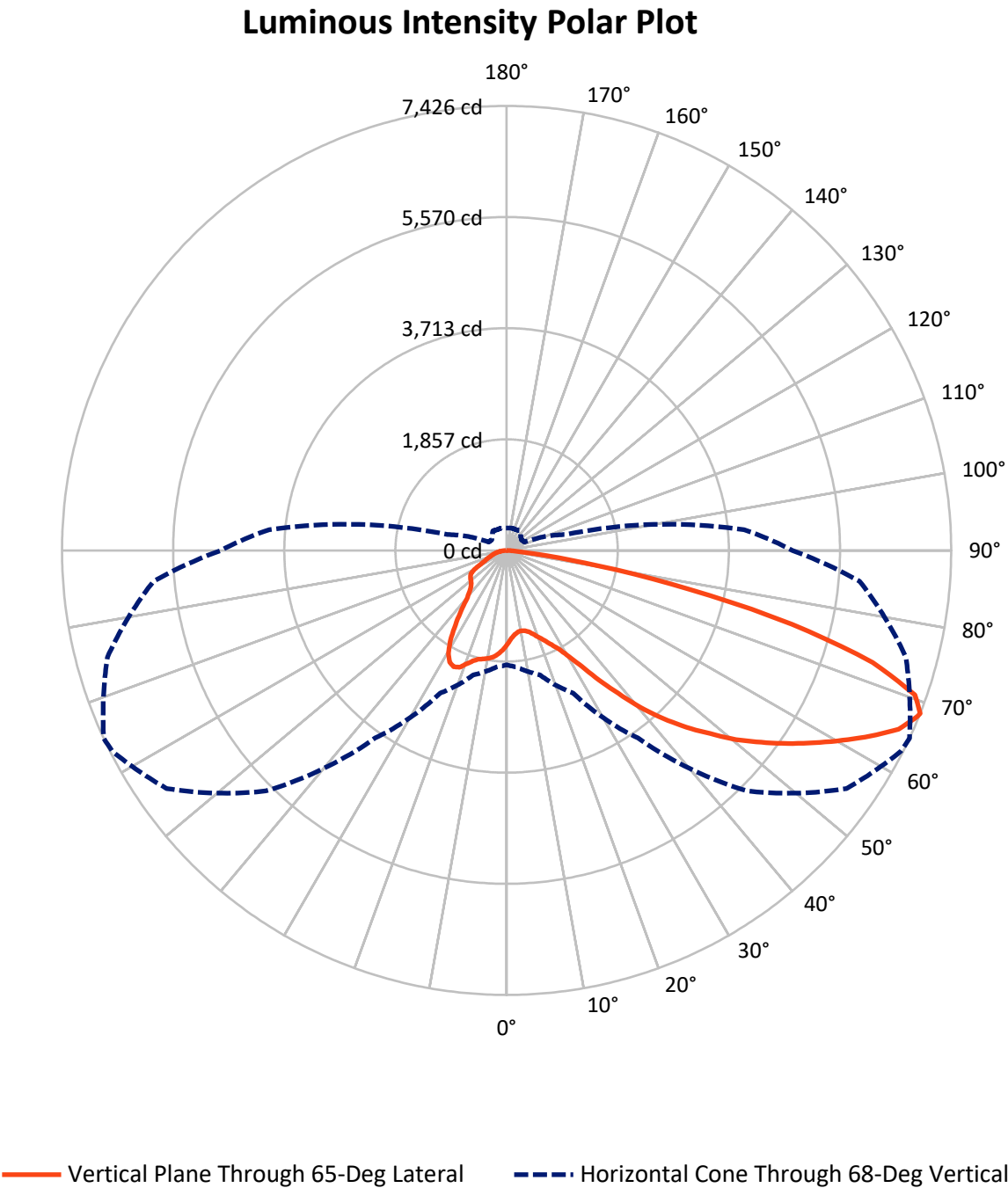
✕ Max cd

--- 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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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3004.1	0.0	3004.1
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	9248.9	0.0	9248.9
	% Fixture	75.5	0.0	75.5
Total	Lumens	12253.0	0.0	12253.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	1.2
10°-20°	487.2	4.0
20°-30°	881.8	7.2
30°-40°	1387.2	11.3
40°-50°	2066.1	16.9
50°-60°	2710.4	22.1
60°-70°	2964.0	24.2
70°-80°	1466.7	12.0
80°-90°	139.9	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°	12253.0	100.0
0°-180°	12253.0	100.0

Coefficient of Utilization



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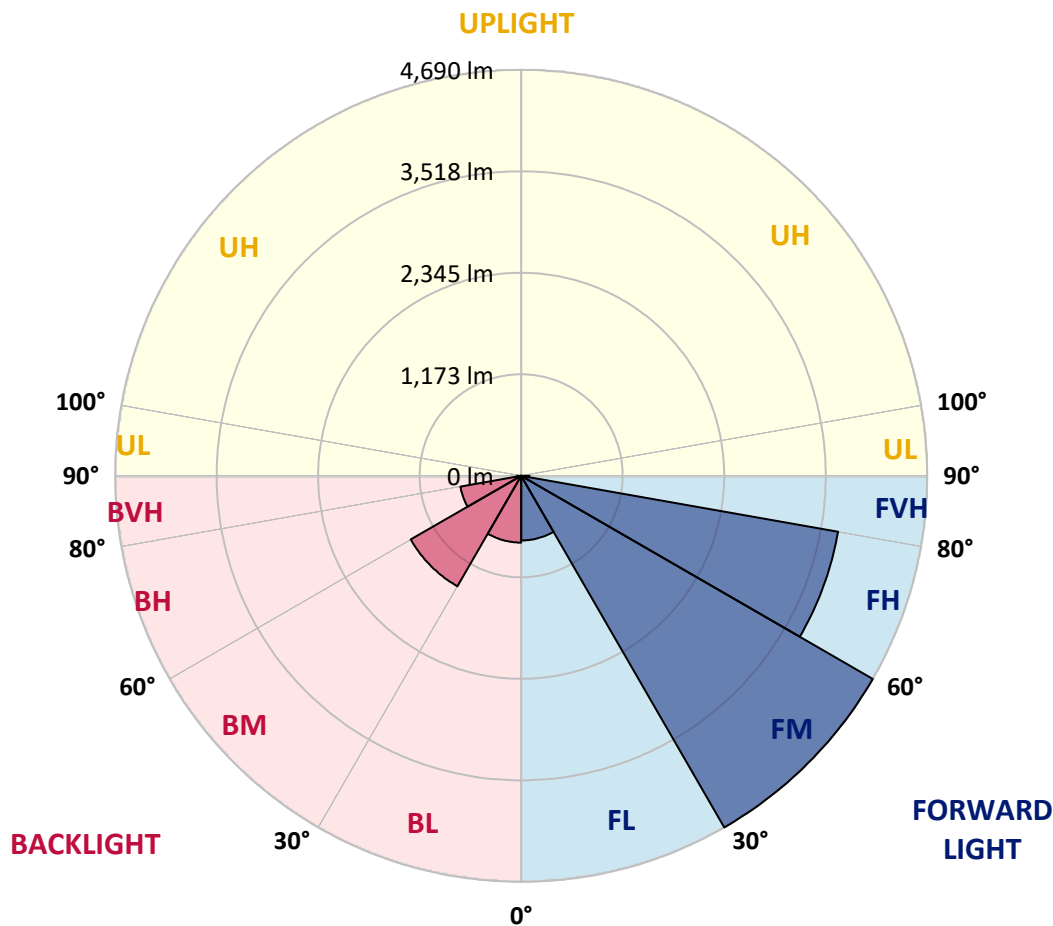
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	747.0	6.1			
FM	(30°-60°)	4690.3	38.3			
FH	(60°-80°)	3717.6	30.3			G2/5000
FVH	(80°-90°)	94.1	0.8			G1/100
BL	(0°-30°)	771.8	6.3	B2/1000		
BM	(30°-60°)	1473.5	12.0	B2/2500		
BH	(60°-80°)	713.0	5.8	B2/1000		G2/1000
BVH	(80°-90°)	45.8	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°	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1366.7	1363.5	1371.4	1379.3	1396.7	1417.3	1445.7	1469.4	1472.6	1516.8	1551.6
5°	1286.1	1281.4	1289.3	1298.8	1306.7	1331.9	1362.0	1396.7	1410.9	1475.7	1550.0
7.5°	1294.0	1292.4	1295.6	1292.4	1292.4	1303.5	1324.0	1358.8	1374.6	1452.0	1557.9
10°	1339.8	1343.0	1344.6	1335.1	1325.6	1320.9	1327.2	1350.9	1362.0	1453.6	1592.6
12.5°	1415.7	1420.4	1422.0	1404.6	1392.0	1371.4	1360.4	1369.9	1377.8	1469.4	1641.6
15°	1518.4	1521.5	1510.5	1499.4	1467.8	1442.5	1415.7	1407.8	1410.9	1502.6	1696.9
17.5°	1638.5	1633.7	1633.7	1606.9	1565.8	1526.3	1482.0	1475.7	1475.7	1556.3	1775.9
20°	1769.6	1774.3	1760.1	1723.8	1682.7	1621.1	1576.8	1548.4	1551.6	1617.9	1872.3
22.5°	1959.2	1967.1	1929.2	1877.0	1813.8	1742.7	1679.5	1633.7	1635.3	1698.5	1971.8
25°	2163.0	2166.2	2142.5	2073.0	1987.6	1886.5	1802.8	1744.3	1742.7	1788.6	2099.8
27.5°	2371.6	2385.8	2338.4	2272.0	2193.0	2066.6	1956.0	1877.0	1864.4	1926.0	2259.4
30°	2586.5	2603.8	2558.0	2493.2	2395.3	2287.8	2156.7	2065.1	2057.2	2139.3	2472.7
32.5°	2802.9	2807.7	2771.3	2717.6	2629.1	2528.0	2422.1	2321.0	2313.1	2447.4	2749.2
35°	2979.9	2994.1	2968.8	2956.2	2891.4	2798.2	2695.5	2637.0	2657.6	2829.8	3107.9
37.5°	3193.2	3207.4	3179.0	3175.8	3155.3	3074.7	3003.6	3008.3	3028.9	3262.7	3485.5
40°	3501.3	3517.1	3444.4	3412.8	3412.8	3333.8	3310.1	3422.3	3449.1	3689.3	3878.9
42.5°	3762.0	3787.3	3744.6	3724.1	3662.5	3607.2	3635.6	3793.6	3839.4	4097.0	4221.8
45°	3888.4	3907.4	3957.9	4018.0	3957.9	3861.5	3969.0	4147.5	4212.3	4473.0	4564.6
47.5°	3956.3	3973.7	4032.2	4193.3	4234.4	4153.8	4305.5	4528.3	4572.5	4845.9	4891.7
50°	3965.8	4021.1	4097.0	4258.1	4446.1	4457.2	4643.6	4915.4	4967.5	5212.4	5179.3
52.5°	3888.4	3910.5	4066.9	4338.7	4547.3	4736.9	5011.8	5286.7	5324.6	5556.9	5433.6
55°	3762.0	3793.6	3950.0	4319.7	4645.2	5002.3	5386.2	5651.7	5694.3	5891.8	5669.1
57.5°	3648.2	3664.0	3831.5	4264.4	4743.2	5267.7	5719.6	6032.5	6060.9	6185.7	5842.9
60°	3521.8	3539.2	3706.7	4145.9	4815.9	5468.4	6067.2	6416.4	6441.7	6495.4	6045.1
62.5°	3194.8	3240.6	3450.7	3950.0	4796.9	5697.5	6438.5	6795.6	6827.2	6768.7	6204.7
65°	2594.4	2659.1	2916.7	3506.0	4619.9	5846.0	6741.9	7144.8	7198.5	6974.1	6247.3
67.5°	2014.5	2060.3	2267.3	2782.4	3999.0	5771.8	6937.8	7384.9	7400.7	6941.0	6010.3
68°	1910.2	1956.0	2153.5	2630.7	3826.8	5683.3	6933.1	7391.3	7426.0	6904.6	5918.7
70°	1461.5	1513.6	1701.7	2084.0	3084.2	5120.8	6643.9	7239.6	7234.8	6465.4	5349.9
72.5°	913.2	943.3	1072.8	1314.6	2039.8	3896.3	5639.0	6384.8	6397.4	5270.9	4103.3
75°	579.9	579.9	573.5	636.7	1046.0	2219.9	4191.8	4915.4	4924.9	3690.9	2586.5
77.5°	504.0	489.8	421.9	357.1	417.1	862.7	2480.6	3174.2	3122.1	1987.6	1227.7
80°	425.0	401.3	346.0	287.6	268.6	270.2	952.7	1611.6	1542.1	715.7	407.6
82.5°	306.5	286.0	260.7	225.9	207.0	161.2	199.1	466.1	455.0	207.0	132.7
85°	165.9	150.1	146.9	148.5	124.8	99.5	83.7	102.7	102.7	90.1	75.8
87.5°	58.5	42.7	50.6	56.9	49.0	41.1	33.2	39.5	41.1	39.5	36.3
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°	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8	1565.8
2.5°	1572.1	1587.9	1625.8	1659.0	1682.7	1703.2	1714.3	1719.0	1730.1	1731.7	1728.5
5°	1584.7	1625.8	1682.7	1731.7	1758.5	1769.6	1772.8	1774.3	1769.6	1772.8	1769.6
7.5°	1617.9	1670.1	1750.6	1793.3	1798.0	1780.7	1782.2	1775.9	1782.2	1788.6	1788.6
10°	1668.5	1734.8	1810.7	1826.5	1805.9	1796.5	1815.4	1853.3	1866.0	1883.4	1883.4
12.5°	1734.8	1813.8	1867.6	1853.3	1834.4	1866.0	1921.3	1959.2	1971.8	1978.2	1973.4
15°	1810.7	1896.0	1922.9	1875.5	1910.2	1978.2	1997.1	1975.0	1943.4	1929.2	1937.1
17.5°	1907.1	1978.2	1962.4	1930.8	2009.8	2019.2	1957.6	1886.5	1836.0	1817.0	1829.6
20°	2008.2	2069.8	1997.1	2011.3	2060.3	1959.2	1842.3	1750.6	1706.4	1698.5	1711.1
22.5°	2115.6	2155.1	2031.9	2104.6	2031.9	1826.5	1685.9	1638.5	1627.4	1640.0	1651.1
25°	2237.3	2232.5	2091.9	2133.0	1926.0	1663.7	1580.0	1576.8	1576.8	1584.7	1600.5
27.5°	2374.7	2300.5	2152.0	2095.1	1742.7	1529.4	1513.6	1515.2	1510.5	1512.1	1520.0
30°	2534.3	2392.1	2218.3	1970.3	1537.3	1428.3	1422.0	1417.3	1406.2	1403.0	1406.2
32.5°	2735.0	2488.5	2286.3	1764.9	1357.2	1324.0	1320.9	1295.6	1268.7	1265.6	1276.6
35°	2989.4	2663.9	2321.0	1507.3	1208.7	1207.1	1196.1	1156.6	1121.8	1121.8	1113.9
37.5°	3280.1	2889.8	2335.2	1256.1	1085.5	1093.4	1061.8	1011.2	984.3	968.5	973.3
40°	3577.1	3147.4	2333.7	1036.5	978.0	979.6	955.9	894.3	827.9	788.4	797.9
42.5°	3863.1	3381.2	2292.6	919.6	891.1	886.4	867.4	783.7	728.4	696.8	698.4
45°	4092.2	3623.0	2229.4	850.0	812.1	820.0	777.4	726.8	676.2	647.8	646.2
47.5°	4321.3	3806.2	2128.3	807.4	753.7	739.4	722.1	687.3	649.4	617.8	619.4
50°	4529.9	3962.7	2033.5	778.9	699.9	663.6	666.8	646.2	613.0	584.6	583.0
52.5°	4676.8	4065.4	1981.3	763.1	635.2	595.7	606.7	595.7	564.1	543.5	541.9
55°	4823.8	4144.4	1998.7	742.6	564.1	532.5	551.4	548.3	530.9	524.6	526.1
57.5°	4942.3	4204.4	2060.3	704.7	496.1	477.2	508.8	499.3	486.6	488.2	488.2
60°	5057.6	4281.8	2133.0	617.8	437.7	439.2	469.3	451.9	444.0	458.2	459.8
62.5°	5177.7	4365.6	2073.0	491.4	387.1	398.2	432.9	418.7	421.9	442.4	448.7
65°	5163.5	4357.7	1689.0	402.9	342.9	365.0	417.1	412.4	414.0	421.9	425.0
67.5°	4872.7	4079.6	1161.3	342.9	311.3	338.1	404.5	385.5	387.1	382.4	383.9
68°	4774.8	3981.6	1023.8	333.4	304.9	331.8	398.2	380.8	382.4	377.6	376.0
70°	4240.7	3409.6	647.8	293.9	282.8	314.4	366.6	360.2	358.7	355.5	355.5
72.5°	3232.7	2516.9	341.3	254.4	257.5	287.6	327.1	339.7	331.8	333.4	342.9
75°	2140.9	1513.6	237.0	218.0	225.9	246.5	290.7	316.0	308.1	312.8	308.1
77.5°	1132.9	815.3	189.6	184.9	184.9	199.1	240.2	279.7	279.7	276.5	271.8
80°	371.3	287.6	151.7	145.4	148.5	156.4	192.8	229.1	233.8	227.5	224.4
82.5°	124.8	132.7	113.8	105.9	109.0	115.3	145.4	175.4	177.0	164.3	161.2
85°	77.4	88.5	71.1	69.5	69.5	71.1	88.5	96.4	88.5	79.0	82.2
87.5°	36.3	44.2	33.2	28.4	23.7	20.5	15.8	6.3	6.3	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)