

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: P1210745

Luminaire Tested: **ARCH3-60-727-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9753 lumens
Efficiency: N/A
Efficacy: 154.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 63.2
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

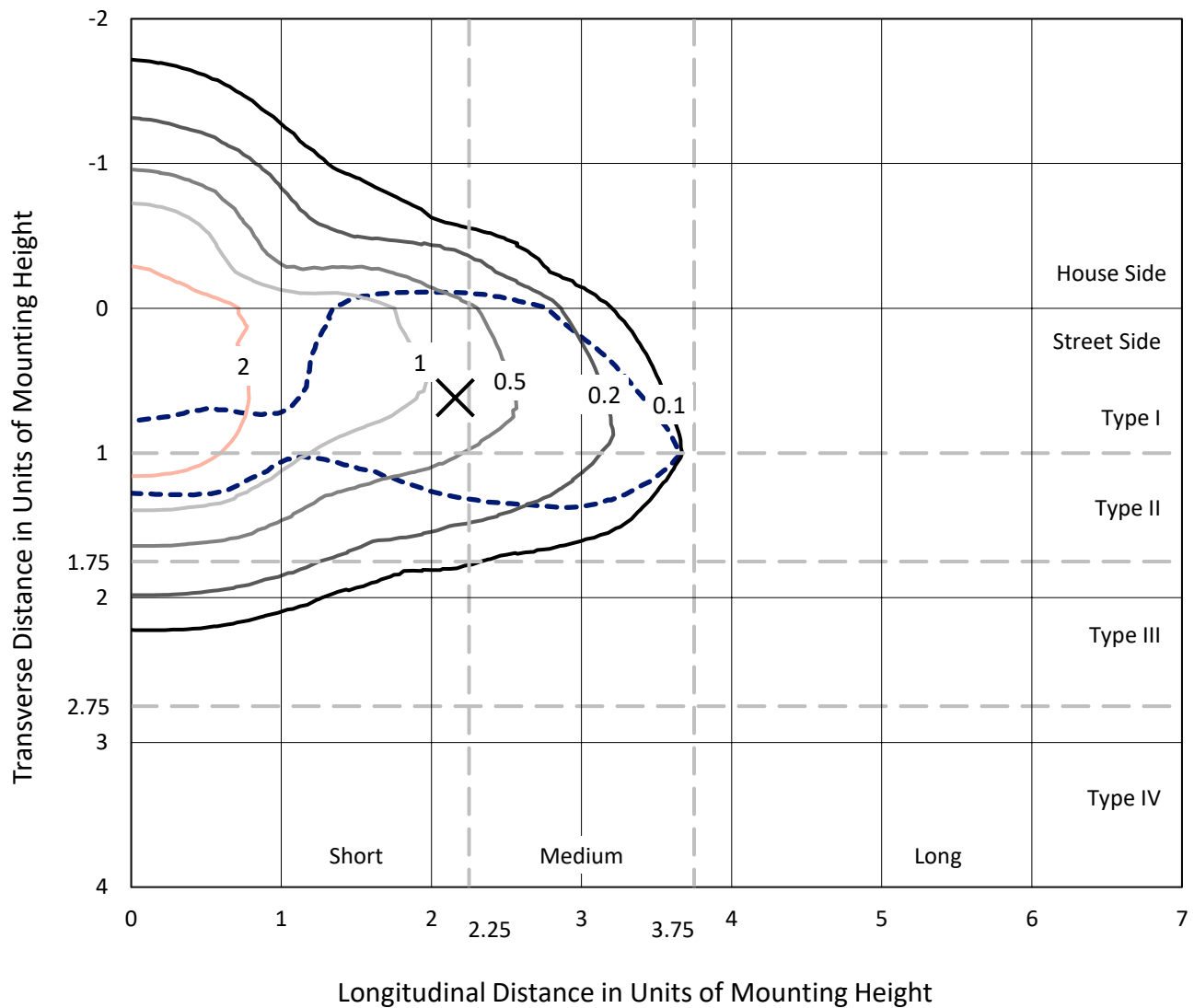


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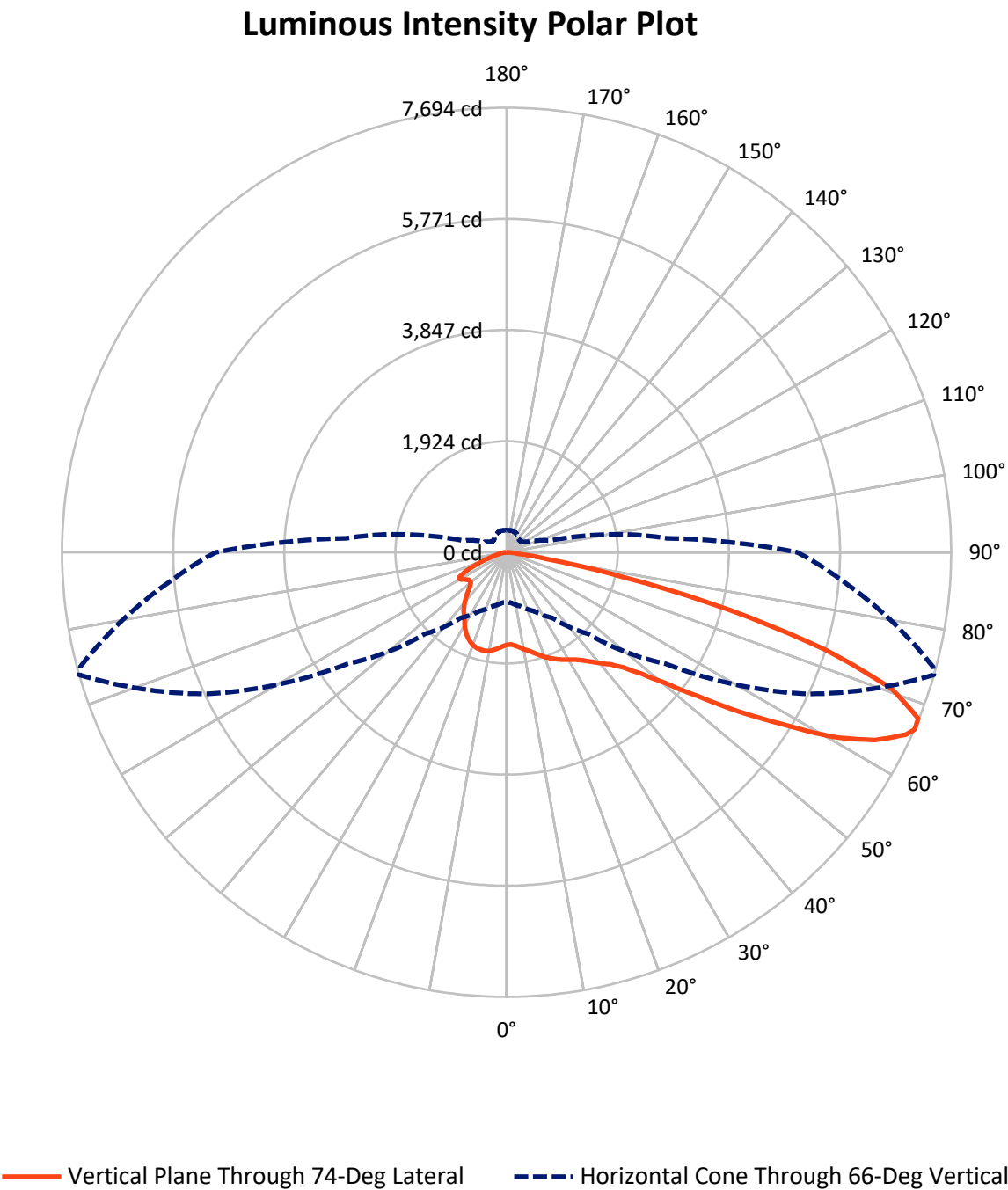
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2375.1	0.0	2375.1
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	7377.9	0.0	7377.9
	% Fixture	75.6	0.0	75.6
Total	Lumens	9753.0	0.0	9753.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	1.6
10°-20°	469.0	4.8
20°-30°	880.1	9.0
30°-40°	1353.8	13.9
40°-50°	1821.0	18.7
50°-60°	2153.6	22.1
60°-70°	1992.2	20.4
70°-80°	838.1	8.6
80°-90°	92.7	1.0
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°	9753.0	100.0
0°-180°	9753.0	100.0

Coefficient of Utilization



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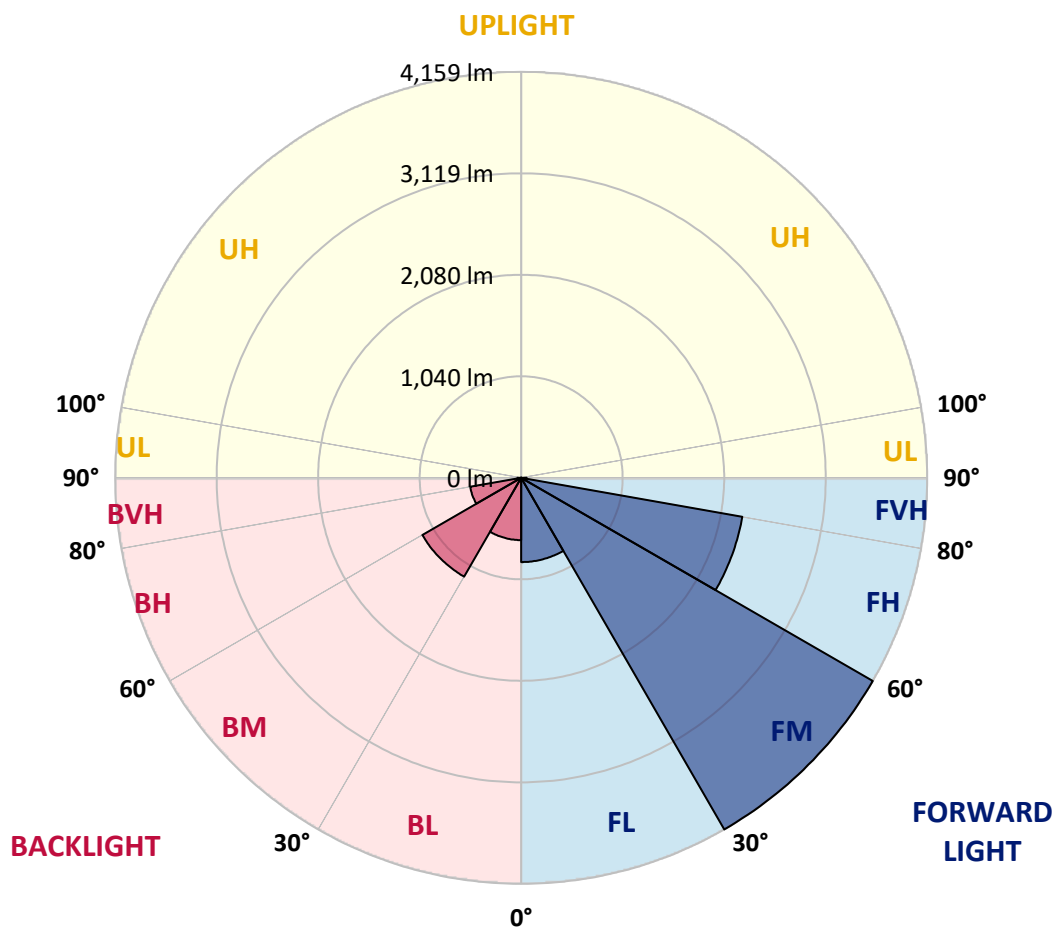
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.3	8.9			
FM	(30°-60°)	4159.1	42.6			
FH	(60°-80°)	2300.0	23.6			G2/5000
FVH	(80°-90°)	55.5	0.6			G1/100
BL	(0°-30°)	638.4	6.5	B2/1000		
BM	(30°-60°)	1169.3	12.0	B2/2500		
BH	(60°-80°)	530.2	5.4	B2/1000		G2/1000
BVH	(80°-90°)	37.3	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1593.8	1591.3	1596.3	1603.9	1607.6	1601.4	1598.8	1597.6	1597.6	1593.8	1600.1
5°	1518.5	1517.3	1528.6	1542.4	1568.7	1587.5	1612.6	1627.7	1622.7	1615.2	1620.2
7.5°	1420.6	1418.1	1431.9	1458.3	1494.7	1536.1	1597.6	1645.3	1664.1	1661.6	1660.3
10°	1458.3	1455.8	1454.5	1447.0	1459.5	1499.7	1563.7	1647.8	1711.8	1713.0	1714.3
12.5°	1588.8	1595.1	1588.8	1565.0	1537.3	1522.3	1559.9	1654.1	1751.9	1759.5	1790.9
15°	1767.0	1760.7	1748.2	1720.6	1677.9	1632.7	1605.1	1682.9	1809.7	1816.0	1885.0
17.5°	1923.9	1928.9	1921.4	1895.0	1844.8	1785.8	1701.7	1733.1	1871.2	1888.7	1985.4
20°	2094.6	2114.6	2104.6	2072.0	2030.6	1942.7	1837.3	1805.9	1938.9	1951.5	2089.5
22.5°	2291.6	2312.9	2294.1	2262.7	2228.8	2120.9	1985.4	1895.0	1995.4	2021.8	2189.9
25°	2527.5	2547.6	2530.0	2481.1	2438.4	2306.6	2144.8	1995.4	2050.6	2079.5	2271.5
27.5°	2714.5	2729.6	2745.9	2717.0	2651.8	2515.0	2310.4	2099.6	2105.9	2136.0	2346.8
30°	2881.4	2919.1	2932.9	2936.6	2881.4	2728.3	2479.8	2207.5	2153.5	2184.9	2422.1
32.5°	3109.8	3166.3	3143.7	3166.3	3133.7	2929.1	2655.5	2319.2	2215.0	2243.9	2493.6
35°	3443.7	3488.8	3429.9	3412.3	3359.6	3132.4	2825.0	2434.7	2296.6	2328.0	2561.4
37.5°	3802.6	3854.0	3768.7	3698.4	3598.0	3333.2	2970.5	2586.5	2409.6	2434.7	2624.2
40°	4116.3	4159.0	4085.0	3992.1	3823.9	3510.2	3096.0	2693.2	2522.5	2553.9	2696.9
42.5°	4406.2	4433.8	4351.0	4261.9	4037.3	3669.6	3231.6	2806.1	2654.3	2684.4	2755.9
45°	4699.9	4721.2	4605.8	4479.0	4215.5	3815.1	3380.9	2964.3	2847.5	2887.7	2851.3
47.5°	4752.6	4758.9	4738.8	4653.5	4356.0	3954.4	3565.4	3176.3	3142.5	3186.4	3015.7
50°	4387.4	4443.9	4568.1	4652.2	4412.5	4071.1	3749.9	3480.1	3549.1	3605.5	3357.1
52.5°	3678.3	3732.3	4019.7	4338.5	4277.0	4097.5	3948.2	3865.3	4122.6	4190.4	3821.4
55°	2930.4	2978.1	3281.8	3741.1	3839.0	3977.0	4160.2	4357.3	4854.3	4899.4	4330.9
57.5°	2413.3	2439.7	2656.8	3098.5	3255.4	3591.7	4274.5	4942.1	5598.5	5667.5	4773.9
60°	1979.1	2008.0	2169.9	2533.8	2742.1	3040.8	4184.1	5519.4	6487.0	6487.0	5342.4
62.5°	1489.7	1514.8	1665.4	1950.2	2300.4	2574.0	3895.4	5902.2	7157.1	7127.0	5754.1
65°	1022.8	1042.9	1152.1	1341.6	1656.6	2193.7	3501.4	5907.2	7601.4	7561.2	5929.8
66°	858.4	876.0	968.8	1121.9	1386.7	1990.4	3362.1	5800.5	7694.3	7637.8	5855.7
67.5°	677.7	690.2	751.7	842.1	1016.5	1611.4	3142.5	5498.1	7685.5	7651.6	5667.5
70°	484.4	493.2	538.4	557.2	601.1	932.4	2496.1	4815.3	7069.3	7079.3	4927.0
72.5°	375.2	389.0	416.7	420.4	410.4	495.7	1514.8	4017.2	5782.9	5779.2	3657.0
75°	302.4	310.0	323.8	331.3	328.8	320.0	641.3	2996.9	3980.8	4027.2	2048.1
77.5°	238.4	237.2	249.7	259.8	267.3	251.0	293.7	1757.0	2087.0	2028.0	769.3
80°	175.7	175.7	193.3	197.0	208.3	210.8	195.8	677.7	716.6	651.3	199.5
82.5°	115.5	115.5	134.3	136.8	148.1	164.4	141.8	203.3	198.3	188.2	90.4
85°	62.7	60.2	66.5	75.3	81.6	96.6	85.3	101.7	104.2	102.9	60.2
87.5°	12.5	11.3	17.6	20.1	22.6	30.1	27.6	41.4	57.7	56.5	26.4
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°	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8	1598.8
2.5°	1608.9	1607.6	1621.4	1637.7	1656.6	1667.9	1672.9	1681.7	1675.4	1677.9	1685.4
5°	1632.7	1636.5	1656.6	1677.9	1686.7	1680.4	1666.6	1661.6	1650.3	1647.8	1645.3
7.5°	1667.9	1674.1	1694.2	1699.2	1672.9	1629.0	1597.6	1580.0	1561.2	1556.2	1553.7
10°	1725.6	1729.4	1734.4	1682.9	1617.7	1558.7	1519.8	1503.5	1490.9	1480.9	1483.4
12.5°	1798.4	1795.9	1757.0	1650.3	1557.4	1497.2	1470.8	1460.8	1452.0	1445.7	1444.5
15°	1890.0	1872.4	1760.7	1605.1	1501.0	1450.8	1431.9	1428.2	1418.1	1418.1	1416.9
17.5°	1982.9	1937.7	1758.2	1557.4	1447.0	1419.4	1408.1	1405.6	1403.1	1401.8	1405.6
20°	2075.7	1995.4	1738.1	1498.4	1409.3	1393.0	1390.5	1391.8	1389.3	1393.0	1390.5
22.5°	2157.3	2033.1	1700.5	1435.7	1383.0	1381.7	1375.5	1378.0	1386.7	1388.0	1391.8
25°	2220.1	2046.9	1645.3	1378.0	1364.2	1361.7	1369.2	1379.2	1386.7	1388.0	1394.3
27.5°	2271.5	2039.3	1576.3	1332.8	1331.5	1345.3	1367.9	1371.7	1372.9	1372.9	1367.9
30°	2310.4	2023.0	1488.4	1282.6	1288.9	1322.7	1344.1	1344.1	1334.0	1331.5	1339.1
32.5°	2319.2	2001.7	1393.0	1231.1	1241.2	1281.3	1307.7	1298.9	1287.6	1287.6	1292.6
35°	2326.7	1972.8	1316.5	1160.9	1175.9	1223.6	1248.7	1231.1	1218.6	1214.8	1213.6
37.5°	2324.2	1961.5	1247.4	1071.8	1091.8	1138.3	1154.6	1138.3	1119.4	1110.7	1121.9
40°	2326.7	1954.0	1160.9	973.9	993.9	1021.6	1042.9	1030.3	1012.8	990.2	1001.5
42.5°	2341.8	1964.0	1065.5	878.5	878.5	893.5	929.9	921.2	878.5	869.7	879.7
45°	2422.1	2018.0	970.1	783.1	769.3	779.3	817.0	779.3	753.0	753.0	761.8
47.5°	2616.6	2118.4	886.0	699.0	666.4	686.5	696.5	661.4	641.3	636.3	645.1
50°	3013.2	2319.2	835.8	630.0	589.8	604.9	598.6	597.4	577.3	579.8	584.8
52.5°	3615.6	2710.8	820.8	596.1	545.9	549.7	543.4	545.9	542.2	554.7	558.5
55°	4271.9	3123.6	839.6	601.1	515.8	489.4	492.0	504.5	519.6	539.6	543.4
57.5°	4762.6	3330.7	888.5	635.0	478.1	438.0	444.3	468.1	497.0	513.3	522.1
60°	5127.8	3305.6	960.1	643.8	433.0	391.6	402.8	438.0	463.1	476.9	485.7
62.5°	5247.1	3148.7	977.6	579.8	374.0	347.6	375.2	411.6	422.9	438.0	444.3
65°	5149.2	2926.6	849.6	470.6	328.8	315.0	355.2	382.8	397.8	405.4	406.6
66°	5033.7	2793.6	780.6	427.9	312.5	305.0	347.6	370.2	385.3	384.0	385.3
67.5°	4780.2	2515.0	668.9	367.7	288.6	289.9	335.1	350.1	355.2	351.4	351.4
70°	3918.0	1770.8	479.4	278.6	253.5	271.1	301.2	305.0	316.3	311.2	311.2
72.5°	2415.8	869.7	321.3	213.3	225.9	253.5	252.3	264.8	291.2	298.7	303.7
75°	1187.2	352.6	212.1	180.7	202.1	212.1	209.6	241.0	278.6	311.2	322.5
77.5°	450.5	175.7	148.1	158.1	163.1	159.4	166.9	218.4	278.6	337.6	348.9
80°	139.3	121.7	116.7	130.5	123.0	116.7	125.5	180.7	235.9	256.0	256.0
82.5°	84.1	95.4	90.4	89.1	82.8	84.1	90.4	129.3	182.0	190.8	190.8
85°	59.0	62.7	51.5	48.9	47.7	46.4	46.4	75.3	107.9	106.7	110.4
87.5°	22.6	25.1	18.8	18.8	17.6	12.5	10.0	12.5	12.5	8.8	6.3
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)