

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: P1210277

Luminaire Tested: **ARCH2-70-740-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210277
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: ARCH2-70-740-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10675 lumens
Efficiency: N/A
Efficacy: 145.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.6
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



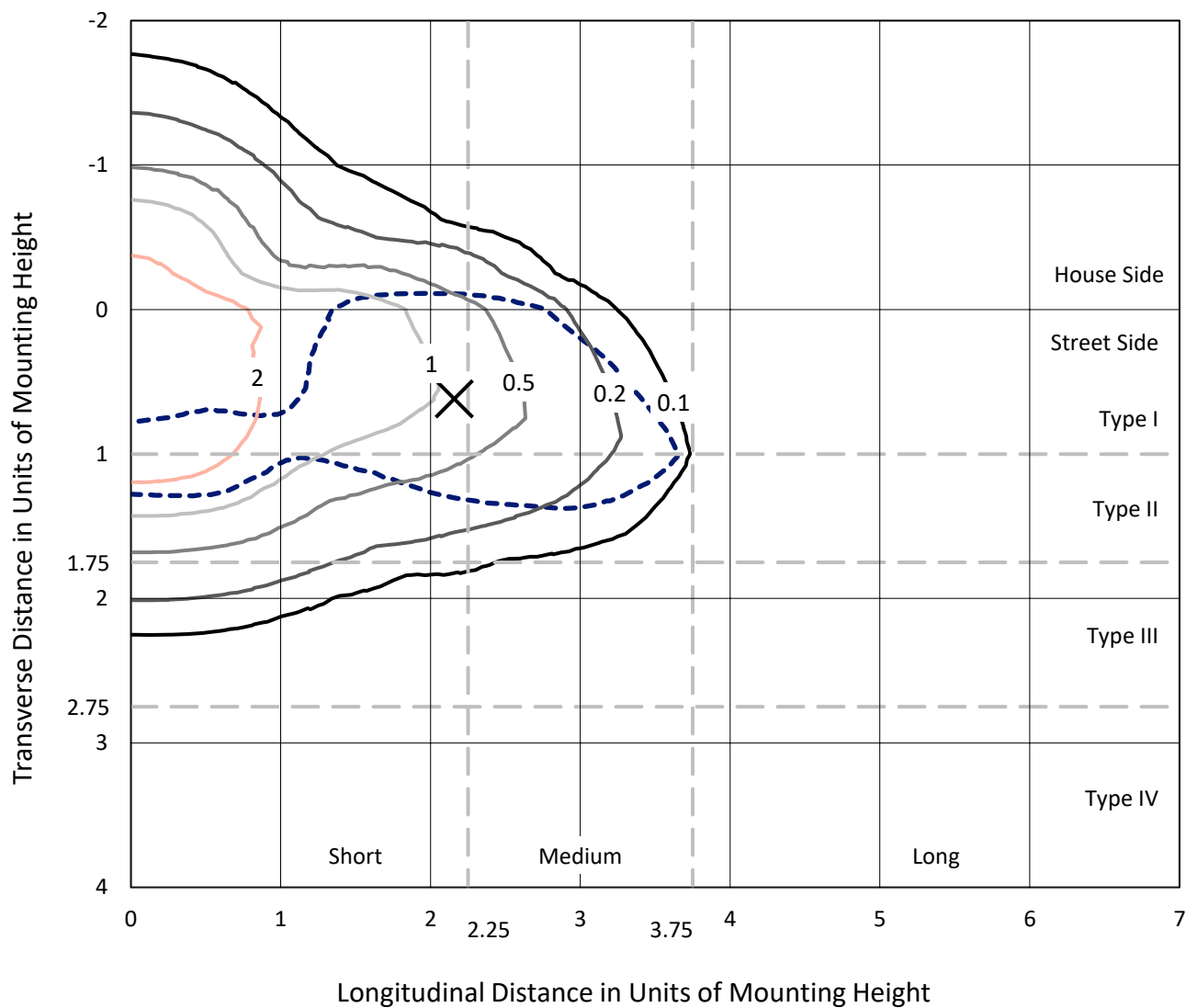
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

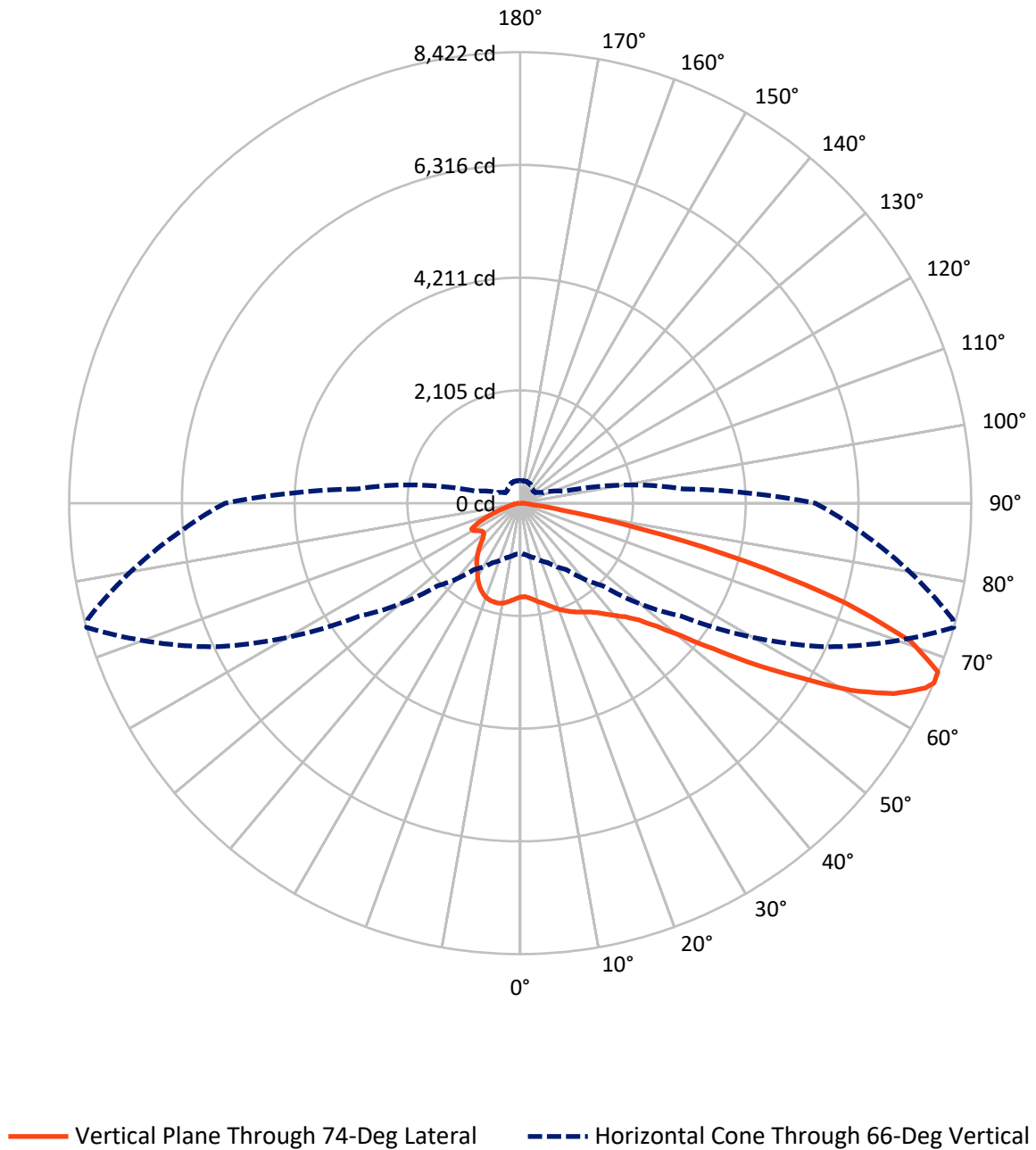
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2599.6	0.0	2599.6
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	8075.3	0.0	8075.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	10675.0	0.0	10675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.9	1.6
10°-20°	513.4	4.8
20°-30°	963.3	9.0
30°-40°	1481.8	13.9
40°-50°	1993.2	18.7
50°-60°	2357.1	22.1
60°-70°	2180.5	20.4
70°-80°	917.3	8.6
80°-90°	101.5	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°	10675.0	100.0
0°-180°	10675.0	100.0

Coefficient of Utilization



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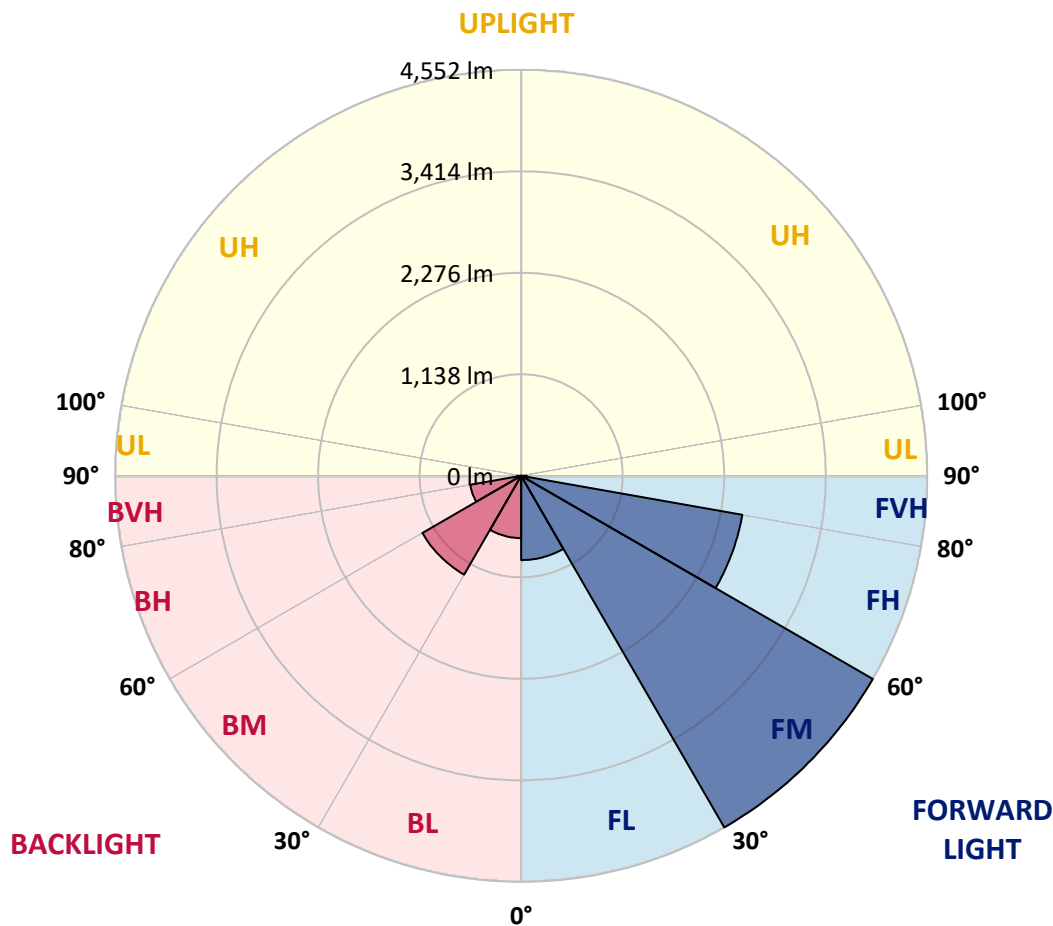
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	944.9	8.9			
FM	(30°-60°)	4552.3	42.6			
FH	(60°-80°)	2517.5	23.6			G2/5000
FVH	(80°-90°)	60.7	0.6			G1/100
BL	(0°-30°)	698.7	6.5	B2/1000		
BM	(30°-60°)	1279.8	12.0	B2/2500		
BH	(60°-80°)	580.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	40.8	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1744.5	1741.7	1747.2	1755.5	1759.6	1752.7	1750.0	1748.6	1748.6	1744.5	1751.4
5°	1662.1	1660.7	1673.1	1688.2	1717.0	1737.6	1765.1	1781.6	1776.1	1767.8	1773.3
7.5°	1554.9	1552.2	1567.3	1596.1	1636.0	1681.3	1748.6	1800.8	1821.4	1818.7	1817.3
10°	1596.1	1593.4	1592.0	1583.8	1597.5	1641.5	1711.5	1803.6	1873.6	1875.0	1876.4
12.5°	1739.0	1745.9	1739.0	1712.9	1682.7	1666.2	1707.4	1810.4	1917.6	1925.8	1960.2
15°	1934.1	1927.2	1913.4	1883.2	1836.5	1787.1	1756.9	1842.0	1980.8	1987.6	2063.2
17.5°	2105.8	2111.2	2103.0	2074.2	2019.2	1954.7	1862.6	1897.0	2048.1	2067.3	2173.1
20°	2292.6	2314.5	2303.6	2267.8	2222.5	2126.4	2011.0	1976.6	2122.2	2136.0	2287.1
22.5°	2508.2	2531.6	2511.0	2476.6	2439.5	2321.4	2173.1	2074.2	2184.1	2212.9	2397.0
25°	2766.5	2788.4	2769.2	2715.6	2668.9	2524.7	2347.5	2184.1	2244.5	2276.1	2486.2
27.5°	2971.1	2987.6	3005.5	2973.9	2902.5	2752.7	2528.8	2298.1	2304.9	2337.9	2568.7
30°	3153.8	3195.0	3210.1	3214.3	3153.8	2986.2	2714.3	2416.2	2357.1	2391.5	2651.1
32.5°	3403.8	3465.6	3440.9	3465.6	3429.9	3206.0	2906.6	2538.4	2424.4	2456.0	2729.4
35°	3769.2	3818.7	3754.1	3734.9	3677.2	3428.5	3092.0	2664.8	2513.7	2548.1	2803.6
37.5°	4162.1	4218.4	4125.0	4048.0	3938.2	3648.3	3251.4	2831.0	2637.3	2664.8	2872.2
40°	4505.5	4552.2	4471.1	4369.5	4185.4	3842.0	3388.7	2947.8	2761.0	2795.3	2951.9
42.5°	4822.8	4853.0	4762.3	4664.8	4418.9	4016.5	3537.1	3071.4	2905.2	2938.2	3016.5
45°	5144.2	5167.5	5041.2	4902.4	4614.0	4175.8	3700.5	3244.5	3116.7	3160.7	3120.9
47.5°	5201.9	5208.8	5186.8	5093.4	4767.8	4328.3	3902.4	3476.6	3439.5	3487.6	3300.8
50°	4802.2	4864.0	5000.0	5092.0	4829.6	4456.0	4104.4	3809.0	3884.6	3946.4	3674.4
52.5°	4026.1	4085.1	4399.7	4748.6	4681.3	4484.9	4321.4	4230.7	4512.3	4586.5	4182.7
55°	3207.4	3259.6	3592.0	4094.8	4201.9	4353.0	4553.5	4769.2	5313.1	5362.6	4740.4
57.5°	2641.5	2670.3	2907.9	3391.5	3563.2	3931.3	4678.5	5409.3	6127.7	6203.3	5225.2
60°	2166.2	2197.8	2375.0	2773.3	3001.4	3328.3	4579.6	6041.2	7100.2	7100.2	5847.5
62.5°	1630.5	1658.0	1822.8	2134.6	2517.8	2817.3	4263.7	6460.1	7833.7	7800.8	6298.0
65°	1119.5	1141.5	1261.0	1468.4	1813.2	2401.1	3832.4	6465.6	8320.0	8276.0	6490.3
66°	939.6	958.8	1060.4	1228.0	1517.8	2178.6	3679.9	6348.9	8421.6	8359.8	6409.3
67.5°	741.8	755.5	822.8	921.7	1112.6	1763.7	3439.5	6017.8	8412.0	8374.9	6203.3
70°	530.2	539.8	589.3	609.9	658.0	1020.6	2732.1	5270.6	7737.6	7748.6	5392.8
72.5°	410.7	425.8	456.0	460.2	449.2	542.6	1658.0	4396.9	6329.6	6325.5	4002.7
75°	331.0	339.3	354.4	362.6	359.9	350.3	701.9	3280.2	4357.1	4407.9	2241.7
77.5°	261.0	259.6	273.3	284.3	292.6	274.7	321.4	1923.1	2284.3	2219.8	842.0
80°	192.3	192.3	211.5	215.7	228.0	230.8	214.3	741.8	784.3	712.9	218.4
82.5°	126.4	126.4	147.0	149.7	162.1	179.9	155.2	222.5	217.0	206.0	98.9
85°	68.7	65.9	72.8	82.4	89.3	105.8	93.4	111.3	114.0	112.6	65.9
87.5°	13.7	12.4	19.2	22.0	24.7	33.0	30.2	45.3	63.2	61.8	28.8
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°	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0	1750.0
2.5°	1761.0	1759.6	1774.7	1792.6	1813.2	1825.5	1831.0	1840.6	1833.8	1836.5	1844.8
5°	1787.1	1791.2	1813.2	1836.5	1846.1	1839.3	1824.2	1818.7	1806.3	1803.6	1800.8
7.5°	1825.5	1832.4	1854.4	1859.9	1831.0	1783.0	1748.6	1729.4	1708.8	1703.3	1700.5
10°	1888.7	1892.8	1898.3	1842.0	1770.6	1706.0	1663.4	1645.6	1631.9	1620.9	1623.6
12.5°	1968.4	1965.6	1923.1	1806.3	1704.7	1638.7	1609.9	1598.9	1589.3	1582.4	1581.0
15°	2068.7	2049.4	1927.2	1756.9	1642.8	1587.9	1567.3	1563.2	1552.2	1552.2	1550.8
17.5°	2170.3	2120.9	1924.4	1704.7	1583.8	1553.6	1541.2	1538.5	1535.7	1534.3	1538.5
20°	2272.0	2184.1	1902.5	1640.1	1542.6	1524.7	1522.0	1523.3	1520.6	1524.7	1522.0
22.5°	2361.2	2225.3	1861.3	1571.4	1513.7	1512.4	1505.5	1508.2	1517.8	1519.2	1523.3
25°	2429.9	2240.4	1800.8	1508.2	1493.1	1490.4	1498.6	1509.6	1517.8	1519.2	1526.1
27.5°	2486.2	2232.1	1725.3	1458.8	1457.4	1472.5	1497.2	1501.4	1502.7	1502.7	1497.2
30°	2528.8	2214.3	1629.1	1403.8	1410.7	1447.8	1471.1	1471.1	1460.2	1457.4	1465.6
32.5°	2538.4	2190.9	1524.7	1347.5	1358.5	1402.5	1431.3	1421.7	1409.3	1409.3	1414.8
35°	2546.7	2159.3	1440.9	1270.6	1287.1	1339.3	1366.7	1347.5	1333.8	1329.7	1328.3
37.5°	2543.9	2147.0	1365.4	1173.1	1195.0	1245.9	1263.7	1245.9	1225.3	1215.7	1228.0
40°	2546.7	2138.7	1270.6	1065.9	1087.9	1118.1	1141.5	1127.7	1108.5	1083.8	1096.1
42.5°	2563.2	2149.7	1166.2	961.5	961.5	978.0	1017.8	1008.2	961.5	951.9	962.9
45°	2651.1	2208.8	1061.8	857.1	842.0	853.0	894.2	853.0	824.2	824.2	833.8
47.5°	2864.0	2318.7	969.8	765.1	729.4	751.4	762.4	723.9	701.9	696.4	706.0
50°	3298.1	2538.4	914.8	689.6	645.6	662.1	655.2	653.8	631.9	634.6	640.1
52.5°	3957.4	2967.0	898.3	652.5	597.5	601.6	594.8	597.5	593.4	607.1	611.3
55°	4675.8	3418.9	918.9	658.0	564.6	535.7	538.5	552.2	568.7	590.7	594.8
57.5°	5212.9	3645.6	972.5	695.0	523.3	479.4	486.3	512.4	544.0	561.8	571.4
60°	5612.6	3618.1	1050.8	704.7	473.9	428.6	440.9	479.4	506.9	522.0	531.6
62.5°	5743.1	3446.4	1070.0	634.6	409.3	380.5	410.7	450.5	462.9	479.4	486.3
65°	5635.9	3203.3	929.9	515.1	359.9	344.8	388.7	419.0	435.4	443.7	445.1
66°	5509.6	3057.7	854.4	468.4	342.0	333.8	380.5	405.2	421.7	420.3	421.7
67.5°	5232.1	2752.7	732.1	402.5	315.9	317.3	366.8	383.2	388.7	384.6	384.6
70°	4288.4	1938.2	524.7	304.9	277.5	296.7	329.7	333.8	346.2	340.7	340.7
72.5°	2644.2	951.9	351.6	233.5	247.3	277.5	276.1	289.8	318.7	326.9	332.4
75°	1299.4	386.0	232.1	197.8	221.2	232.1	229.4	263.7	304.9	340.7	353.0
77.5°	493.1	192.3	162.1	173.1	178.6	174.4	182.7	239.0	304.9	369.5	381.9
80°	152.5	133.2	127.7	142.9	134.6	127.7	137.4	197.8	258.2	280.2	280.2
82.5°	92.0	104.4	98.9	97.5	90.7	92.0	98.9	141.5	199.2	208.8	208.8
85°	64.6	68.7	56.3	53.6	52.2	50.8	50.8	82.4	118.1	116.8	120.9
87.5°	24.7	27.5	20.6	20.6	19.2	13.7	11.0	13.7	13.7	9.6	6.9
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)