

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: P1211098

Luminaire Tested: **ARCH4-170-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211098
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-170-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1380mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18086 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 169.8
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



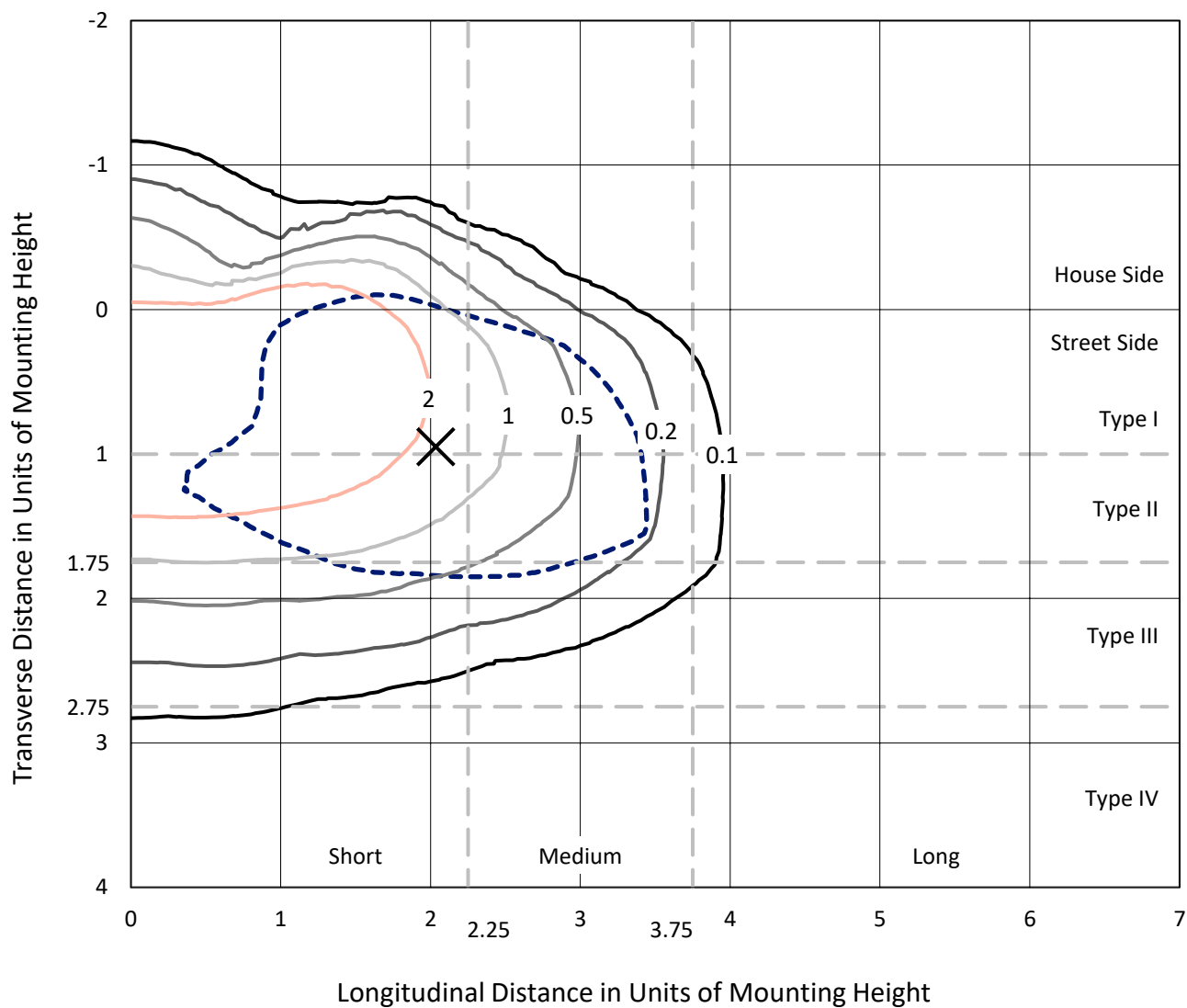
REPORT NUMBER: P1211098

CATALOG NUMBER: ARCH4-170-727-U-T3RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

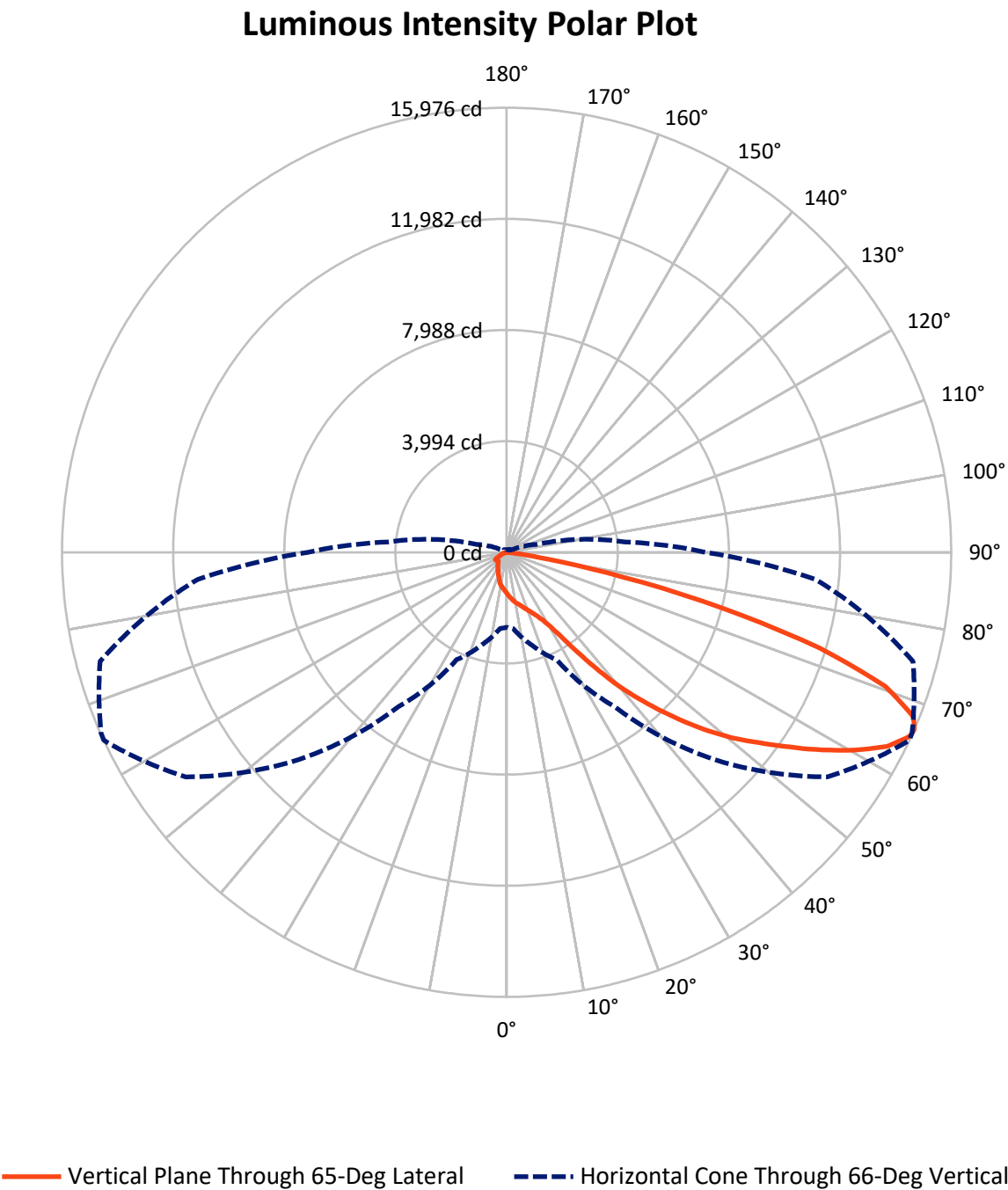
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type III - Short - N/A

REPORT NUMBER: P1211098
CATALOG NUMBER: ARCH4-170-727-U-T3RE-HSS



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2134.5	0.0	2134.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	15951.5	0.0	15951.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	18086.0	0.0	18086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	0.8
10°-20°	413.5	2.3
20°-30°	756.9	4.2
30°-40°	1538.0	8.5
40°-50°	3247.8	18.0
50°-60°	4992.9	27.6
60°-70°	5025.7	27.8
70°-80°	1877.8	10.4
80°-90°	93.8	0.5
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°	18086.0	100.0
0°-180°	18086.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211098

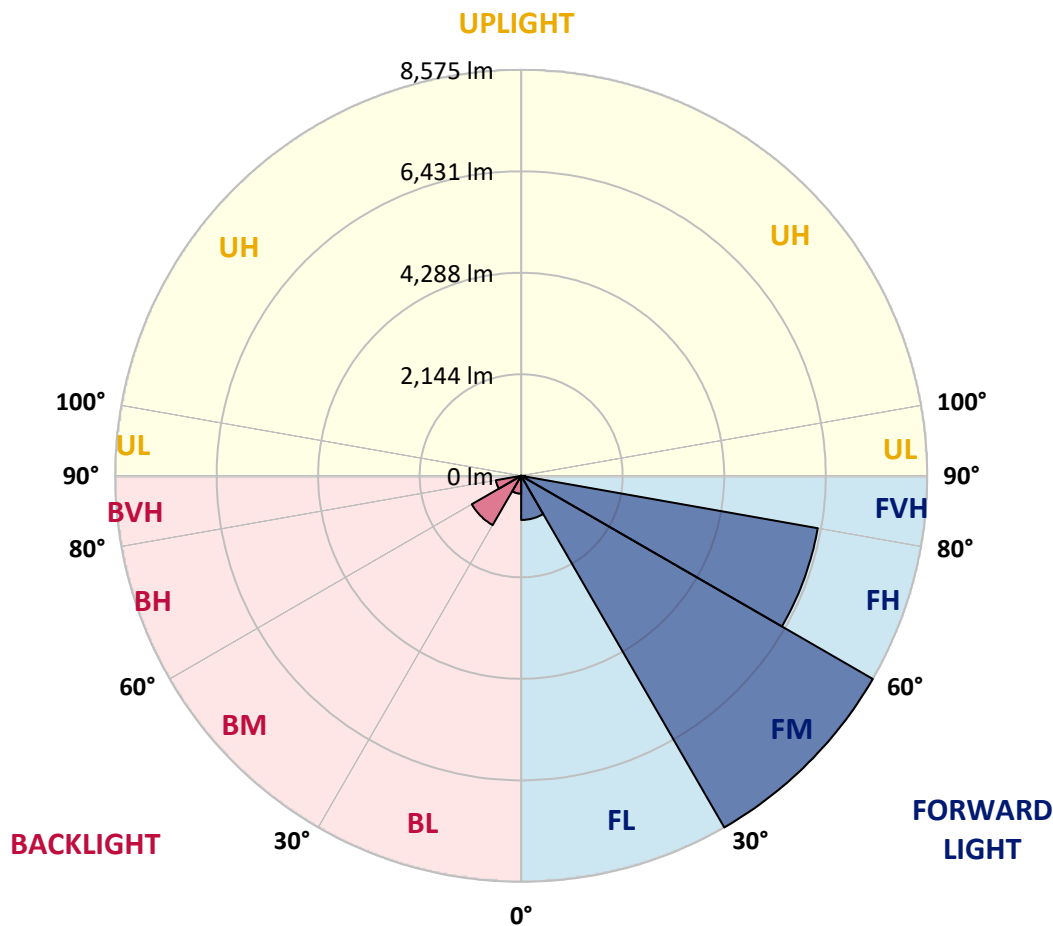
CATALOG NUMBER: ARCH4-170-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.3	5.2			
FM	(30°-60°)	8575.1	47.4			
FH	(60°-80°)	6361.3	35.2			G3/7500
FVH	(80°-90°)	82.8	0.5			G1/100
BL	(0°-30°)	377.8	2.1	B1/500		
BM	(30°-60°)	1203.5	6.7	B2/2500		
BH	(60°-80°)	542.2	3.0	B2/1000		G2/1000
BVH	(80°-90°)	11.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short



REPORT NUMBER: P1211098

CATALOG NUMBER: ARCH4-170-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1680.2	1683.5	1677.0	1663.8	1650.7	1634.3	1608.1	1565.4	1558.8	1529.3	1496.5
5°	1795.1	1801.7	1791.8	1788.5	1782.0	1759.0	1722.9	1660.6	1654.0	1594.9	1519.4
7.5°	1834.5	1844.3	1837.8	1837.8	1837.8	1827.9	1811.5	1755.7	1745.9	1670.4	1555.5
10°	1864.0	1870.6	1867.3	1880.4	1890.3	1883.7	1873.9	1841.1	1831.2	1755.7	1604.8
12.5°	1910.0	1913.3	1916.5	1923.1	1939.5	1946.1	1942.8	1913.3	1906.7	1854.2	1667.1
15°	1952.6	1952.6	1955.9	1985.5	2008.4	2021.6	2024.8	2001.9	1995.3	1952.6	1745.9
17.5°	1992.0	1995.3	2005.1	2038.0	2077.3	2103.6	2120.0	2110.2	2100.3	2067.5	1837.8
20°	2051.1	2057.6	2067.5	2113.4	2152.8	2195.5	2228.3	2225.0	2221.7	2198.8	1946.1
22.5°	2152.8	2159.4	2175.8	2218.5	2257.8	2310.3	2366.1	2362.9	2353.0	2336.6	2074.1
25°	2307.1	2307.1	2316.9	2353.0	2402.2	2464.6	2517.1	2526.9	2517.1	2507.2	2234.9
27.5°	2500.7	2504.0	2504.0	2543.3	2589.3	2668.1	2733.7	2743.5	2743.5	2733.7	2451.5
30°	2769.8	2759.9	2753.4	2786.2	2835.4	2950.3	3065.1	3084.8	3075.0	3091.4	2756.7
32.5°	3232.5	3216.1	3160.3	3166.9	3196.4	3353.9	3547.6	3616.5	3613.2	3642.7	3248.9
35°	3872.5	3839.6	3757.6	3688.7	3685.4	3856.0	4151.4	4410.7	4407.4	4509.1	3997.2
37.5°	4594.4	4637.1	4482.9	4364.7	4328.6	4463.2	4843.8	5405.0	5434.6	5611.8	4978.4
40°	5559.3	5585.5	5388.6	5221.2	5050.6	5099.8	5601.9	6474.9	6527.4	6724.3	5959.6
42.5°	6399.4	6425.6	6310.8	6107.3	5890.7	5798.8	6366.6	7446.3	7488.9	7761.3	6970.4
45°	6970.4	6990.1	7029.5	7049.2	6803.0	6612.7	7301.9	8443.9	8496.4	8811.5	7958.2
47.5°	7416.7	7433.1	7511.9	7708.8	7659.6	7508.6	8253.6	9480.9	9494.1	9845.2	8919.8
50°	7623.5	7662.9	7856.5	8158.4	8375.0	8417.7	9287.3	10462.2	10498.3	10833.0	9828.8
52.5°	7393.8	7406.9	7895.9	8463.6	8900.1	9333.3	10324.3	11371.2	11476.2	11725.6	10646.0
55°	6619.3	6714.4	7456.1	8453.8	9313.6	10202.9	11433.6	12352.5	12447.6	12605.2	11364.7
57.5°	5720.1	5825.1	6727.6	8030.4	9490.8	11006.9	12460.8	13396.1	13461.7	13504.3	12024.3
60°	4942.3	5040.7	5969.5	7219.8	9313.6	11574.7	13415.7	14433.1	14488.9	14374.0	12355.7
62.5°	3987.3	4085.8	5021.1	6146.7	8617.8	11689.5	14124.6	15355.2	15378.2	15066.5	12152.3
65°	3006.1	3071.7	3852.8	4817.6	7400.3	11079.1	14285.4	15929.6	15906.6	15266.6	11541.9
66°	2694.3	2750.1	3439.3	4259.7	6766.9	10521.3	14068.8	15975.5	15952.5	15119.0	11141.5
67.5°	2323.5	2339.9	2907.6	3485.2	5661.0	9336.5	13409.2	15765.5	15785.2	14712.0	10409.7
70°	1814.8	1811.5	2139.7	2425.2	3865.9	6642.2	11184.2	14442.9	14538.1	13176.2	8877.1
72.5°	1161.7	1122.4	1312.7	1483.3	2251.3	3856.0	8155.1	11771.6	11932.4	10350.6	6612.7
75°	692.4	653.1	699.0	741.7	1079.7	1854.2	4794.6	8010.7	8165.0	6635.7	3934.8
77.5°	518.5	502.1	505.4	469.3	479.1	695.7	2188.9	4233.4	4345.0	2717.3	1493.2
80°	397.1	354.4	331.5	347.9	315.0	275.7	813.9	1457.1	1526.0	643.2	311.8
82.5°	265.8	229.7	213.3	233.0	200.2	154.2	196.9	282.2	275.7	173.9	121.4
85°	137.8	118.1	118.1	118.1	101.7	75.5	85.3	114.9	114.9	91.9	72.2
87.5°	39.4	36.1	42.7	39.4	29.5	29.5	32.8	39.4	39.4	36.1	32.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211098

CATALOG NUMBER: ARCH4-170-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1470.2	1457.1	1421.0	1394.7	1368.5	1345.5	1319.3	1312.7	1299.6	1302.8	1296.3
5°	1480.1	1444.0	1381.6	1322.5	1276.6	1237.2	1188.0	1168.3	1142.0	1132.2	1125.6
7.5°	1493.2	1440.7	1348.8	1266.8	1188.0	1109.2	1030.5	984.5	955.0	941.9	932.0
10°	1522.7	1453.8	1332.4	1204.4	1069.8	958.3	879.5	846.7	827.0	823.7	820.4
12.5°	1562.1	1473.5	1316.0	1125.6	948.4	843.4	794.2	784.3	781.1	781.1	777.8
15°	1621.2	1506.3	1289.7	1033.7	853.3	781.1	758.1	741.7	735.1	735.1	735.1
17.5°	1680.2	1545.7	1250.3	938.6	787.6	741.7	718.7	708.9	702.3	705.6	702.3
20°	1755.7	1591.6	1197.8	856.5	745.0	708.9	685.9	676.0	672.8	672.8	672.8
22.5°	1841.1	1644.2	1132.2	794.2	708.9	676.0	653.1	643.2	636.7	639.9	639.9
25°	1955.9	1709.8	1063.3	731.8	672.8	643.2	617.0	603.8	603.8	607.1	610.4
27.5°	2103.6	1788.5	994.4	692.4	639.9	610.4	580.9	567.7	571.0	577.6	577.6
30°	2320.2	1896.8	925.4	649.8	603.8	571.0	544.8	531.6	538.2	551.3	551.3
32.5°	2628.7	2074.1	866.4	600.6	551.3	515.2	489.0	479.1	495.5	521.8	521.8
35°	3180.0	2399.0	830.3	551.3	495.5	452.9	420.1	410.2	433.2	466.0	466.0
37.5°	3918.4	2920.7	843.4	508.7	449.6	400.4	364.3	351.1	367.6	397.1	406.9
40°	4742.1	3550.8	958.3	472.6	406.9	357.7	321.6	308.5	318.3	331.5	334.7
42.5°	5565.8	4220.3	1174.9	446.3	374.1	321.6	288.8	278.9	285.5	288.8	292.1
45°	6386.3	4883.2	1447.2	429.9	344.6	292.1	259.3	259.3	262.5	262.5	262.5
47.5°	7164.0	5529.7	1732.8	426.6	318.3	262.5	236.3	239.6	239.6	242.8	242.8
50°	7899.1	6107.3	2021.6	436.5	295.4	236.3	216.6	216.6	216.6	219.9	216.6
52.5°	8512.8	6612.7	2323.5	452.9	272.4	216.6	196.9	196.9	196.9	200.2	196.9
55°	9093.7	7072.1	2632.0	475.9	252.7	200.2	180.5	173.9	173.9	177.2	173.9
57.5°	9566.3	7377.3	2924.0	479.1	236.3	183.8	167.4	157.5	157.5	157.5	157.5
60°	9586.0	7200.1	3009.4	420.1	216.6	167.4	151.0	137.8	141.1	141.1	141.1
62.5°	8959.1	6268.1	2418.6	315.0	193.6	151.0	137.8	124.7	124.7	124.7	124.7
65°	7728.5	4876.7	1417.7	249.4	167.4	134.6	121.4	111.6	111.6	111.6	108.3
66°	7150.9	4276.1	1086.3	226.4	157.5	131.3	118.1	108.3	105.0	101.7	101.7
67.5°	6209.0	3380.2	679.3	200.2	144.4	121.4	108.3	98.5	95.2	91.9	91.9
70°	4676.5	2146.3	331.5	154.2	124.7	105.0	95.2	85.3	82.0	78.8	75.5
72.5°	3281.7	1256.9	173.9	118.1	101.7	91.9	82.0	72.2	68.9	65.6	65.6
75°	1854.2	607.1	114.9	85.3	82.0	75.5	68.9	59.1	55.8	55.8	55.8
77.5°	702.3	210.0	78.8	62.4	65.6	59.1	49.2	49.2	45.9	49.2	45.9
80°	183.8	91.9	49.2	45.9	49.2	42.7	36.1	39.4	39.4	39.4	39.4
82.5°	98.5	52.5	29.5	32.8	29.5	29.5	23.0	26.3	29.5	26.3	29.5
85°	68.9	26.3	16.4	16.4	13.1	13.1	9.8	13.1	16.4	13.1	13.1
87.5°	36.1	9.8	9.8	9.8	9.8	6.6	3.3	0.0	3.3	3.3	3.3
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)