

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: P1211194

Luminaire Tested: **ARCH4-200-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211194
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: ARCH4-200-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA 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: 20732 lumens
Efficiency: N/A
Efficacy: 101.8 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): 203.7
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

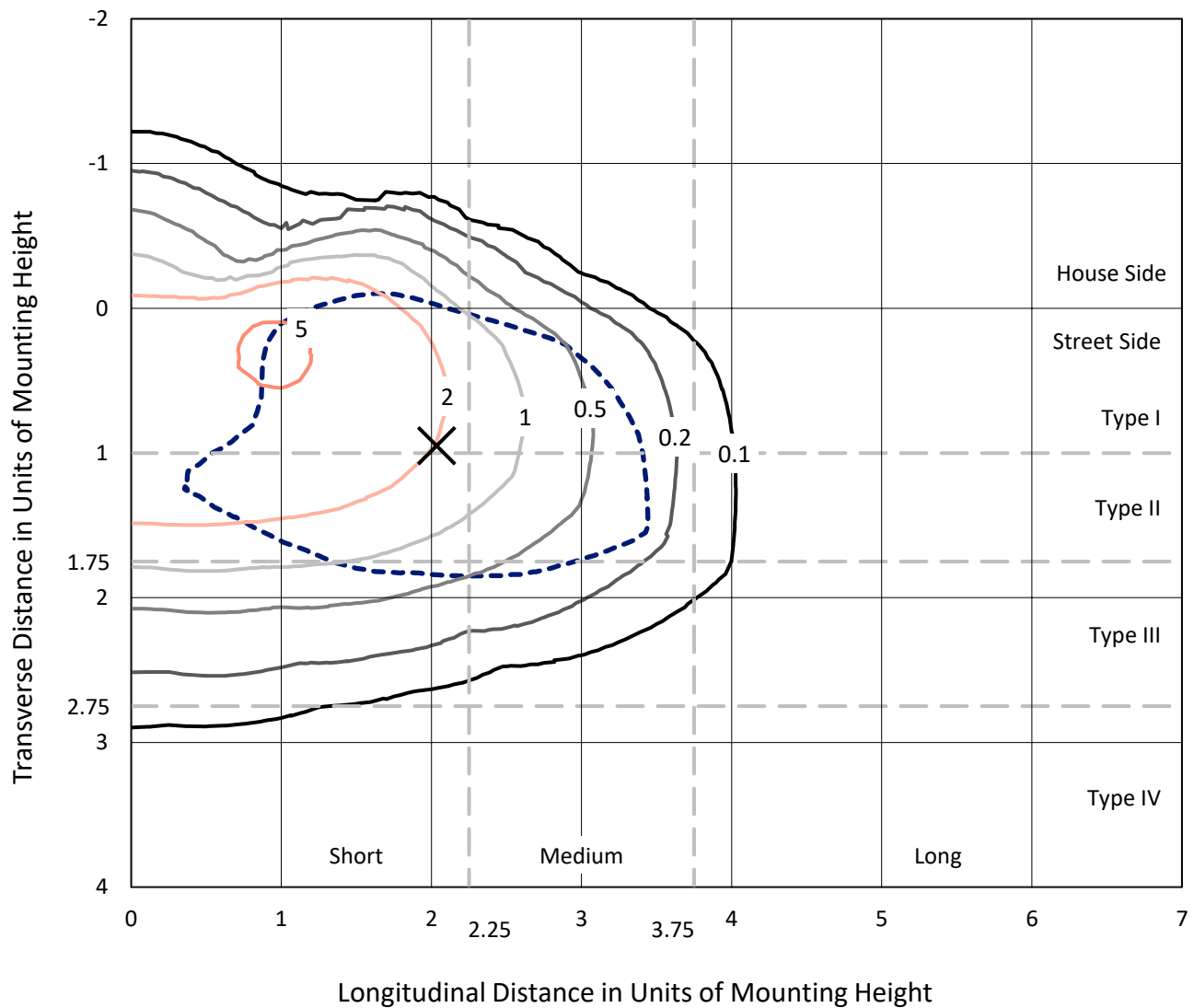


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Iso-Footcandle Lines of Horizontal Illumination

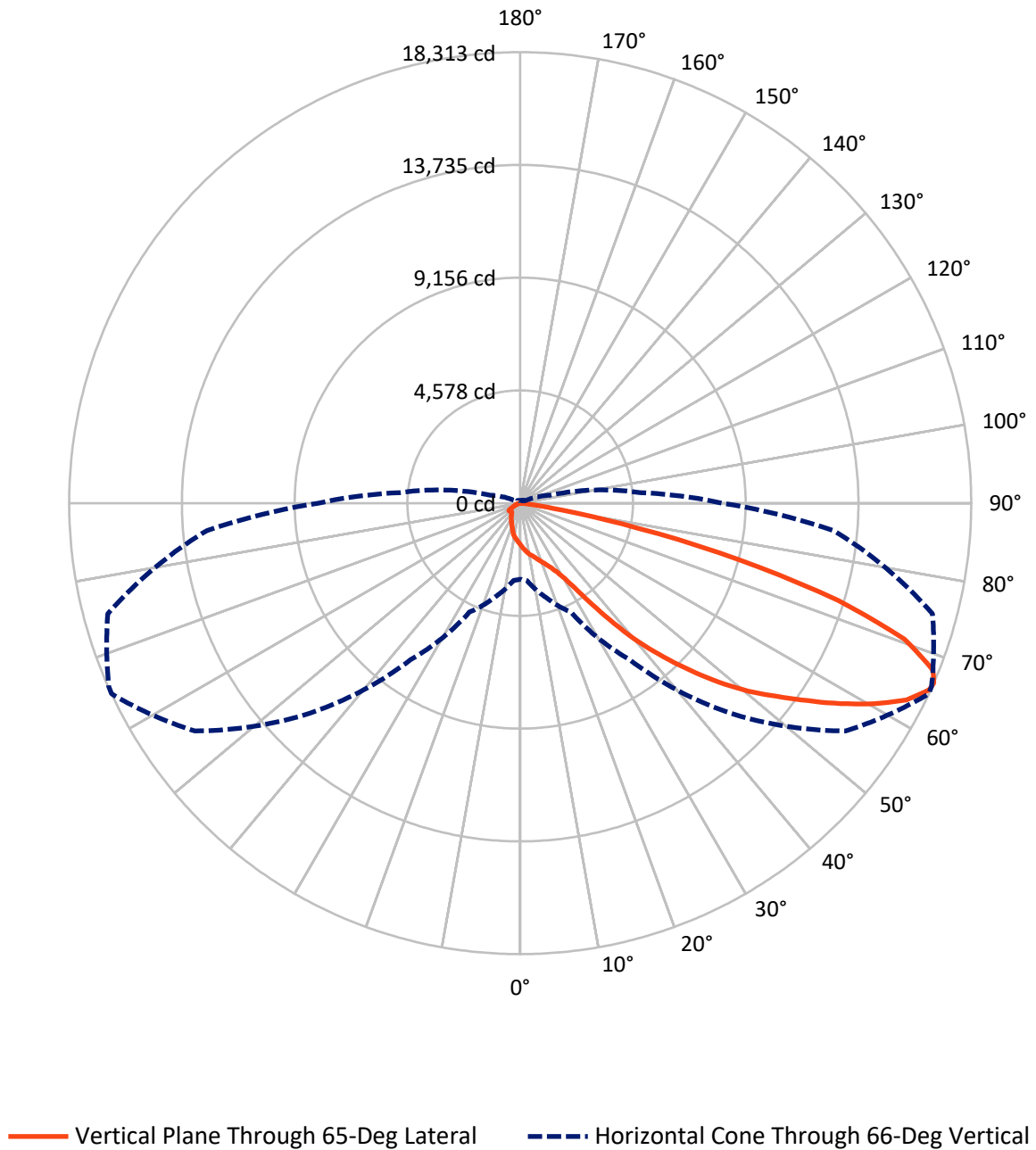
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	2446.8	0.0	2446.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18285.2	0.0	18285.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	20732.0	0.0	20732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	0.8
10°-20°	474.0	2.3
20°-30°	867.6	4.2
30°-40°	1763.0	8.5
40°-50°	3722.9	18.0
50°-60°	5723.3	27.6
60°-70°	5760.9	27.8
70°-80°	2152.6	10.4
80°-90°	107.5	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°	20732.0	100.0
0°-180°	20732.0	100.0

Coefficient of Utilization



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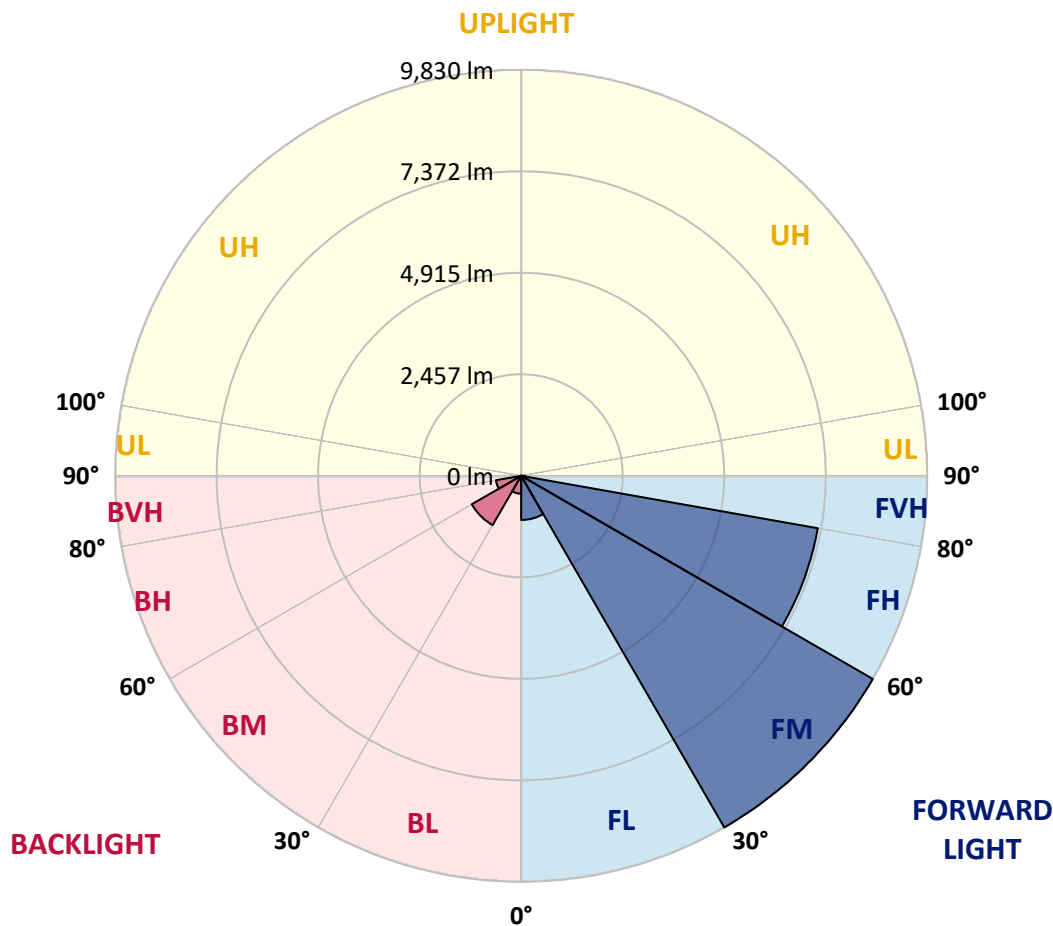
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1068.7	5.2			
FM	(30°-60°)	9829.7	47.4			
FH	(60°-80°)	7291.9	35.2			G3/7500
FVH	(80°-90°)	94.9	0.5			G1/100
BL	(0°-30°)	433.1	2.1	B1/500		
BM	(30°-60°)	1379.5	6.7	B2/2500		
BH	(60°-80°)	621.6	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1926.1	1929.8	1922.3	1907.3	1892.2	1873.4	1843.3	1794.4	1786.9	1753.0	1715.4
5°	2057.7	2065.3	2054.0	2050.2	2042.7	2016.4	1975.0	1903.5	1896.0	1828.3	1741.7
7.5°	2102.9	2114.2	2106.6	2106.6	2106.6	2095.4	2076.5	2012.6	2001.3	1914.8	1783.1
10°	2136.7	2144.3	2140.5	2155.5	2166.8	2159.3	2148.0	2110.4	2099.1	2012.6	1839.5
12.5°	2189.4	2193.2	2196.9	2204.4	2223.3	2230.8	2227.0	2193.2	2185.6	2125.5	1911.0
15°	2238.3	2238.3	2242.1	2275.9	2302.3	2317.3	2321.1	2294.7	2287.2	2238.3	2001.3
17.5°	2283.4	2287.2	2298.5	2336.1	2381.3	2411.4	2430.2	2418.9	2407.6	2370.0	2106.6
20°	2351.2	2358.7	2370.0	2422.6	2467.8	2516.7	2554.3	2550.5	2546.8	2520.4	2230.8
22.5°	2467.8	2475.3	2494.1	2543.0	2588.2	2648.3	2712.3	2708.5	2697.3	2678.4	2377.5
25°	2644.6	2644.6	2655.9	2697.3	2753.7	2825.2	2885.3	2896.6	2885.3	2874.1	2561.8
27.5°	2866.5	2870.3	2870.3	2915.4	2968.1	3058.4	3133.6	3144.9	3144.9	3133.6	2810.1
30°	3175.0	3163.7	3156.2	3193.8	3250.2	3381.9	3513.6	3536.1	3524.9	3543.7	3160.0
32.5°	3705.4	3686.6	3622.7	3630.2	3664.1	3844.6	4066.6	4145.6	4141.8	4175.7	3724.2
35°	4439.0	4401.4	4307.3	4228.3	4224.6	4420.2	4758.8	5055.9	5052.2	5168.8	4581.9
37.5°	5266.6	5315.5	5138.7	5003.3	4961.9	5116.1	5552.5	6195.8	6229.6	6432.8	5706.7
40°	6372.6	6402.7	6177.0	5985.1	5789.5	5845.9	6421.5	7422.1	7482.3	7708.0	6831.5
42.5°	7335.6	7365.7	7234.1	7000.8	6752.5	6647.2	7298.0	8535.7	8584.6	8896.8	7990.2
45°	7990.2	8012.8	8057.9	8080.5	7798.3	7580.1	8370.1	9679.3	9739.5	10100.6	9122.5
47.5°	8501.8	8520.6	8610.9	8836.6	8780.2	8607.1	9461.1	10868.0	10883.1	11285.6	10224.7
50°	8738.8	8783.9	9005.9	9352.0	9600.3	9649.2	10646.1	11992.8	12034.2	12417.9	11266.8
52.5°	8475.5	8490.5	9051.0	9701.8	10202.2	10698.7	11834.8	13034.8	13155.2	13441.1	12203.5
55°	7587.7	7696.8	8546.9	9690.5	10676.2	11695.6	13106.3	14159.6	14268.7	14449.3	13027.3
57.5°	6556.9	6677.3	7711.8	9205.3	10879.3	12617.3	14283.8	15355.9	15431.1	15480.0	13783.5
60°	5665.4	5778.2	6842.8	8276.1	10676.2	13268.1	15378.5	16544.7	16608.6	16476.9	14163.4
62.5°	4570.7	4683.5	5755.6	7046.0	9878.6	13399.7	16191.0	17601.7	17628.1	17270.7	13930.2
65°	3445.9	3521.1	4416.4	5522.4	8483.0	12700.0	16375.4	18260.1	18233.7	17500.2	13230.5
66°	3088.5	3152.4	3942.4	4882.9	7757.0	12060.5	16127.1	18312.7	18286.4	17330.9	12771.5
67.5°	2663.4	2682.2	3333.0	3995.1	6489.2	10702.5	15371.0	18072.0	18094.5	16864.4	11932.6
70°	2080.3	2076.5	2452.7	2780.0	4431.5	7614.0	12820.4	16555.9	16665.0	15103.9	10175.8
72.5°	1331.7	1286.6	1504.7	1700.4	2580.6	4420.2	9348.2	13493.8	13678.1	11864.9	7580.1
75°	793.8	748.6	801.3	850.2	1237.7	2125.5	5496.1	9182.7	9359.5	7606.5	4510.5
77.5°	594.4	575.6	579.3	537.9	549.2	797.5	2509.2	4852.8	4980.7	3114.8	1711.6
80°	455.2	406.3	379.9	398.8	361.1	316.0	932.9	1670.3	1749.3	737.3	357.4
82.5°	304.7	263.3	244.5	267.1	229.5	176.8	225.7	323.5	316.0	199.4	139.2
85°	158.0	135.4	135.4	135.4	116.6	86.5	97.8	131.7	131.7	105.3	82.8
87.5°	45.1	41.4	48.9	45.1	33.9	33.9	37.6	45.1	45.1	41.4	37.6
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°	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1	1689.1
2.5°	1685.3	1670.3	1628.9	1598.8	1568.7	1542.4	1512.3	1504.7	1489.7	1493.5	1485.9
5°	1696.6	1655.2	1583.7	1516.0	1463.4	1418.2	1361.8	1339.2	1309.1	1297.8	1290.3
7.5°	1711.6	1651.5	1546.1	1452.1	1361.8	1271.5	1181.2	1128.6	1094.7	1079.7	1068.4
10°	1745.5	1666.5	1527.3	1380.6	1226.4	1098.5	1008.2	970.6	948.0	944.2	940.5
12.5°	1790.6	1689.1	1508.5	1290.3	1087.2	966.8	910.4	899.1	895.3	895.3	891.6
15°	1858.4	1726.7	1478.4	1185.0	978.1	895.3	869.0	850.2	842.7	842.7	842.7
17.5°	1926.1	1771.8	1433.3	1075.9	902.8	850.2	823.8	812.6	805.0	808.8	805.0
20°	2012.6	1824.5	1373.1	981.8	853.9	812.6	786.2	774.9	771.2	771.2	771.2
22.5°	2110.4	1884.7	1297.8	910.4	812.6	774.9	748.6	737.3	729.8	733.6	733.6
25°	2242.1	1959.9	1218.8	838.9	771.2	737.3	707.2	692.2	692.2	695.9	699.7
27.5°	2411.4	2050.2	1139.8	793.8	733.6	699.7	665.8	650.8	654.6	662.1	662.1
30°	2659.6	2174.4	1060.8	744.8	692.2	654.6	624.5	609.4	616.9	632.0	632.0
32.5°	3013.2	2377.5	993.1	688.4	632.0	590.6	560.5	549.2	568.0	598.1	598.1
35°	3645.2	2749.9	951.8	632.0	568.0	519.1	481.5	470.2	496.6	534.2	534.2
37.5°	4491.7	3348.1	966.8	583.1	515.4	458.9	417.6	402.5	421.3	455.2	466.5
40°	5435.9	4070.3	1098.5	541.7	466.5	410.0	368.7	353.6	364.9	379.9	383.7
42.5°	6380.1	4837.8	1346.7	511.6	428.9	368.7	331.0	319.8	327.3	331.0	334.8
45°	7320.6	5597.6	1659.0	492.8	395.0	334.8	297.2	297.2	300.9	300.9	300.9
47.5°	8212.1	6338.7	1986.3	489.0	364.9	300.9	270.9	274.6	274.6	278.4	278.4
50°	9054.8	7000.8	2317.3	500.3	338.6	270.9	248.3	248.3	248.3	252.0	248.3
52.5°	9758.3	7580.1	2663.4	519.1	312.2	248.3	225.7	225.7	225.7	229.5	225.7
55°	10424.1	8106.8	3017.0	545.5	289.7	229.5	206.9	199.4	199.4	203.1	199.4
57.5°	10965.8	8456.7	3351.8	549.2	270.9	210.7	191.9	180.6	180.6	180.6	180.6
60°	10988.4	8253.5	3449.6	481.5	248.3	191.9	173.0	158.0	161.8	161.8	161.8
62.5°	10269.9	7185.2	2772.5	361.1	221.9	173.0	158.0	143.0	143.0	143.0	143.0
65°	8859.2	5590.1	1625.1	285.9	191.9	154.2	139.2	127.9	127.9	127.9	124.1
66°	8197.1	4901.7	1245.2	259.6	180.6	150.5	135.4	124.1	120.4	116.6	116.6
67.5°	7117.4	3874.7	778.7	229.5	165.5	139.2	124.1	112.9	109.1	105.3	105.3
70°	5360.6	2460.3	379.9	176.8	143.0	120.4	109.1	97.8	94.0	90.3	86.5
72.5°	3761.9	1440.8	199.4	135.4	116.6	105.3	94.0	82.8	79.0	75.2	75.2
75°	2125.5	695.9	131.7	97.8	94.0	86.5	79.0	67.7	64.0	64.0	64.0
77.5°	805.0	240.8	90.3	71.5	75.2	67.7	56.4	56.4	52.7	56.4	52.7
80°	210.7	105.3	56.4	52.7	56.4	48.9	41.4	45.1	45.1	45.1	45.1
82.5°	112.9	60.2	33.9	37.6	33.9	33.9	26.3	30.1	33.9	30.1	33.9
85°	79.0	30.1	18.8	18.8	15.0	15.0	11.3	15.0	18.8	15.0	15.0
87.5°	41.4	11.3	11.3	11.3	11.3	7.5	3.8	0.0	3.8	3.8	3.8
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)