

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: P1211166

Luminaire Tested: **ARCH4-190-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211166
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: ARCH4-190-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1530mA 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: 20479 lumens
Efficiency: N/A
Efficacy: 107.8 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): 190
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



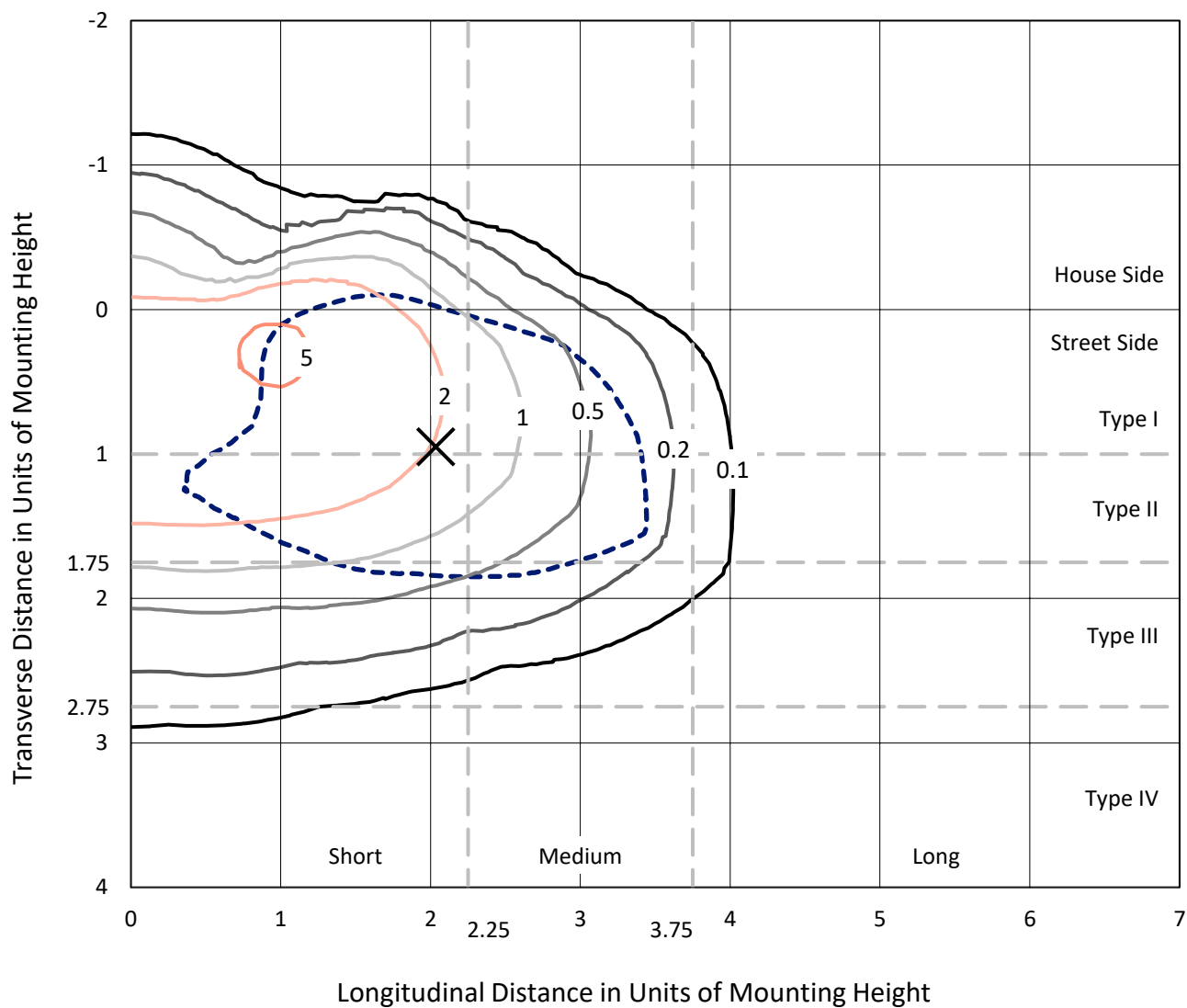
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

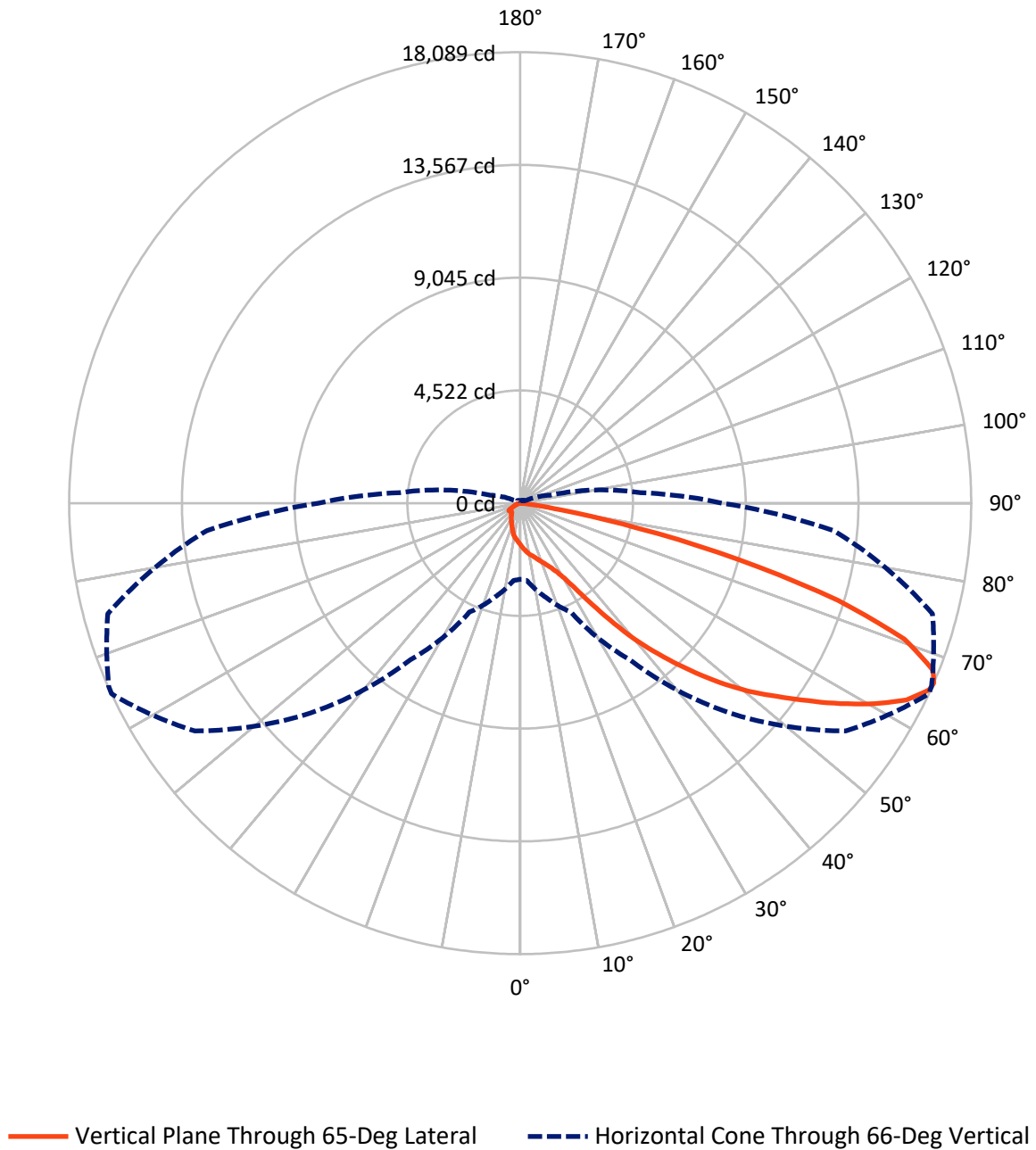
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	2416.9	0.0	2416.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	18062.1	0.0	18062.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	20479.0	0.0	20479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	0.8
10°-20°	468.2	2.3
20°-30°	857.0	4.2
30°-40°	1741.5	8.5
40°-50°	3677.5	18.0
50°-60°	5653.5	27.6
60°-70°	5690.6	27.8
70°-80°	2126.3	10.4
80°-90°	106.2	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°	20479.0	100.0
0°-180°	20479.0	100.0

Coefficient of Utilization



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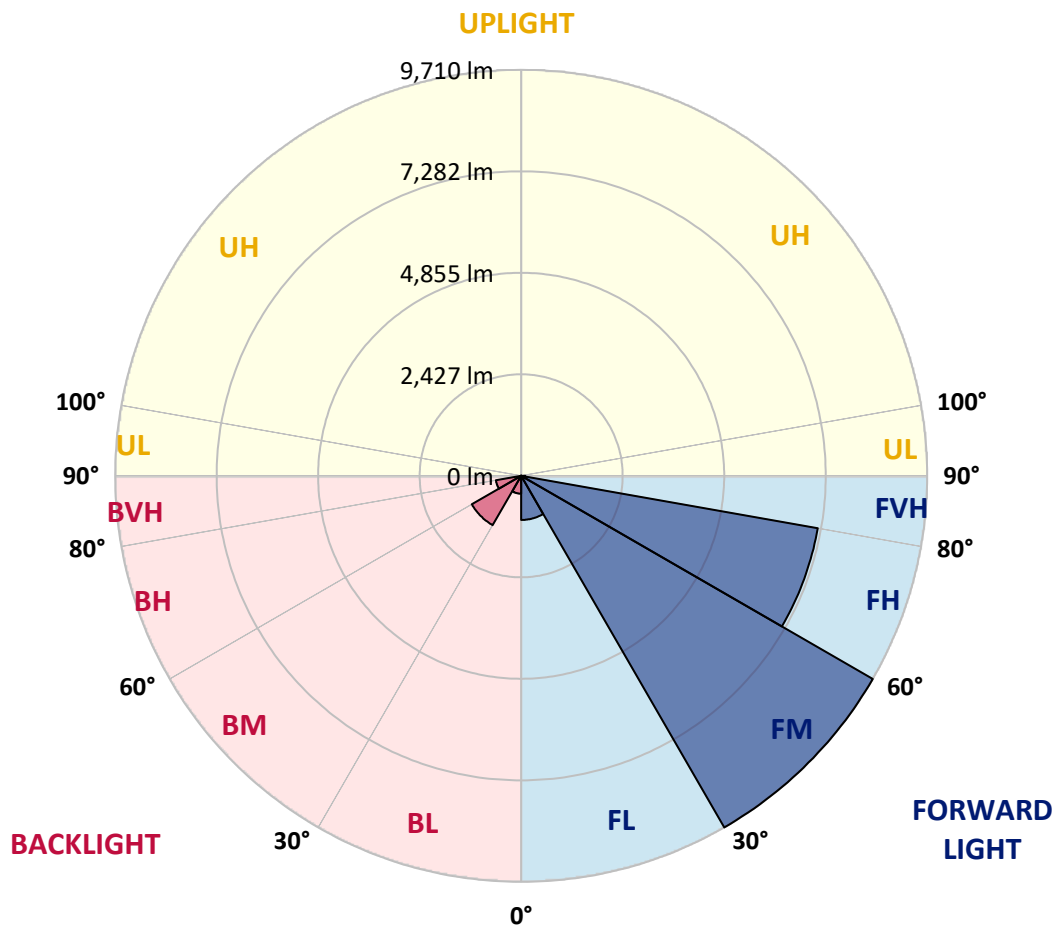
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1055.7	5.2			
FM	(30°-60°)	9709.7	47.4			
FH	(60°-80°)	7203.0	35.2			G3/7500
FVH	(80°-90°)	93.7	0.5			G1/100
BL	(0°-30°)	427.8	2.1	B1/500		
BM	(30°-60°)	1362.7	6.7	B2/2500		
BH	(60°-80°)	614.0	3.0	B2/1000		G2/1000
BVH	(80°-90°)	12.5	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°	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5
2.5°	1902.6	1906.3	1898.9	1884.0	1869.1	1850.5	1820.8	1772.5	1765.1	1731.6	1694.5
5°	2032.6	2040.1	2028.9	2025.2	2017.8	1991.8	1950.9	1880.3	1872.8	1806.0	1720.5
7.5°	2077.2	2088.4	2080.9	2080.9	2080.9	2069.8	2051.2	1988.0	1976.9	1891.4	1761.4
10°	2110.7	2118.1	2114.4	2129.2	2140.4	2133.0	2121.8	2084.6	2073.5	1988.0	1817.1
12.5°	2162.7	2166.4	2170.1	2177.5	2196.1	2203.6	2199.8	2166.4	2159.0	2099.5	1887.7
15°	2211.0	2211.0	2214.7	2248.2	2274.2	2289.0	2292.7	2266.7	2259.3	2211.0	1976.9
17.5°	2255.6	2259.3	2270.4	2307.6	2352.2	2381.9	2400.5	2389.4	2378.2	2341.0	2080.9
20°	2322.5	2329.9	2341.0	2393.1	2437.7	2486.0	2523.1	2519.4	2515.7	2489.7	2203.6
22.5°	2437.7	2445.1	2463.7	2512.0	2556.6	2616.0	2679.2	2675.5	2664.3	2645.8	2348.5
25°	2612.3	2612.3	2623.5	2664.3	2720.1	2790.7	2850.1	2861.3	2850.1	2839.0	2530.6
27.5°	2831.6	2835.3	2835.3	2879.9	2931.9	3021.1	3095.4	3106.5	3106.5	3095.4	2775.8
30°	3136.3	3125.1	3117.7	3154.8	3210.6	3340.6	3470.7	3493.0	3481.8	3500.4	3121.4
32.5°	3660.2	3641.6	3578.5	3585.9	3619.3	3797.7	4016.9	4095.0	4091.3	4124.7	3678.8
35°	4384.8	4347.7	4254.8	4176.7	4173.0	4366.2	4700.7	4994.2	4990.5	5105.7	4526.0
37.5°	5202.3	5250.6	5076.0	4942.2	4901.3	5053.7	5484.7	6120.2	6153.6	6354.3	5637.1
40°	6294.8	6324.5	6101.6	5912.1	5718.8	5774.6	6343.1	7331.6	7391.0	7614.0	6748.2
42.5°	7246.1	7275.8	7145.8	6915.4	6670.1	6566.1	7208.9	8431.5	8479.8	8788.2	7892.7
45°	7892.7	7915.0	7959.6	7981.9	7703.2	7487.6	8268.0	9561.1	9620.6	9977.3	9011.2
47.5°	8398.1	8416.6	8505.8	8728.8	8673.0	8502.1	9345.6	10735.4	10750.2	11147.9	10100.0
50°	8632.2	8676.7	8896.0	9237.9	9483.1	9531.4	10516.1	11846.5	11887.3	12266.4	11129.3
52.5°	8372.0	8386.9	8940.6	9583.4	10077.7	10568.2	11690.4	12875.8	12994.7	13277.1	12054.5
55°	7495.1	7602.8	8442.6	9572.3	10545.9	11552.9	12946.4	13986.8	14094.6	14273.0	12868.3
57.5°	6476.9	6595.8	7617.7	9092.9	10746.5	12463.3	14109.5	15168.5	15242.8	15291.1	13615.2
60°	5596.2	5707.7	6759.3	8175.1	10545.9	13106.2	15190.8	16342.8	16405.9	16275.9	13990.6
62.5°	4514.9	4626.4	5685.4	6960.0	9758.1	13236.2	15993.5	17386.9	17412.9	17059.9	13760.2
65°	3403.8	3478.1	4362.5	5455.0	8379.5	12545.1	16175.5	18037.2	18011.2	17286.6	13069.0
66°	3050.8	3114.0	3894.3	4823.3	7662.3	11913.3	15930.3	18089.3	18063.2	17119.4	12615.7
67.5°	2630.9	2649.5	3292.3	3946.3	6410.0	10571.9	15183.4	17851.4	17873.7	16658.6	11787.0
70°	2054.9	2051.2	2422.8	2746.1	4377.4	7521.1	12664.0	16353.9	16461.7	14919.5	10051.6
72.5°	1315.4	1270.9	1486.4	1679.6	2549.1	4366.2	9234.1	13329.1	13511.2	11720.1	7487.6
75°	784.1	739.5	791.5	839.8	1222.5	2099.5	5429.0	9070.6	9245.3	7513.7	4455.4
77.5°	587.1	568.5	572.3	531.4	542.5	787.8	2478.5	4793.6	4919.9	3076.8	1690.8
80°	449.6	401.3	375.3	393.9	356.7	312.1	921.6	1649.9	1727.9	728.3	353.0
82.5°	301.0	260.1	241.5	263.8	226.7	174.6	223.0	319.6	312.1	196.9	137.5
85°	156.1	133.8	133.8	133.8	115.2	85.5	96.6	130.1	130.1	104.0	81.8
87.5°	44.6	40.9	48.3	44.6	33.4	33.4	37.2	44.6	44.6	40.9	37.2
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°	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5	1668.5
2.5°	1664.7	1649.9	1609.0	1579.3	1549.6	1523.5	1493.8	1486.4	1471.5	1475.2	1467.8
5°	1675.9	1635.0	1564.4	1497.5	1445.5	1400.9	1345.2	1322.9	1293.2	1282.0	1274.6
7.5°	1690.8	1631.3	1527.3	1434.4	1345.2	1256.0	1166.8	1114.8	1081.3	1066.5	1055.3
10°	1724.2	1646.2	1508.7	1363.8	1211.4	1085.1	995.9	958.7	936.4	932.7	929.0
12.5°	1768.8	1668.5	1490.1	1274.6	1073.9	955.0	899.3	888.1	884.4	884.4	880.7
15°	1835.7	1705.6	1460.4	1170.5	966.1	884.4	858.4	839.8	832.4	832.4	832.4
17.5°	1902.6	1750.2	1415.8	1062.8	891.8	839.8	813.8	802.6	795.2	798.9	795.2
20°	1988.0	1802.2	1356.3	969.9	843.5	802.6	776.6	765.5	761.8	761.8	761.8
22.5°	2084.6	1861.7	1282.0	899.3	802.6	765.5	739.5	728.3	720.9	724.6	724.6
25°	2214.7	1936.0	1204.0	828.7	761.8	728.3	698.6	683.7	683.7	687.5	691.2
27.5°	2381.9	2025.2	1125.9	784.1	724.6	691.2	657.7	642.9	646.6	654.0	654.0
30°	2627.2	2147.8	1047.9	735.8	683.7	646.6	616.8	602.0	609.4	624.3	624.3
32.5°	2976.5	2348.5	981.0	680.0	624.3	583.4	553.7	542.5	561.1	590.8	590.8
35°	3600.8	2716.4	940.1	624.3	561.1	512.8	475.6	464.5	490.5	527.7	527.7
37.5°	4436.8	3307.2	955.0	576.0	509.1	453.3	412.5	397.6	416.2	449.6	460.8
40°	5369.6	4020.7	1085.1	535.1	460.8	405.0	364.2	349.3	360.4	375.3	379.0
42.5°	6302.3	4778.7	1330.3	505.4	423.6	364.2	327.0	315.9	323.3	327.0	330.7
45°	7231.2	5529.3	1638.7	486.8	390.2	330.7	293.6	293.6	297.3	297.3	297.3
47.5°	8111.9	6261.4	1962.0	483.1	360.4	297.3	267.5	271.3	271.3	275.0	275.0
50°	8944.3	6915.4	2289.0	494.2	334.4	267.5	245.3	245.3	245.3	249.0	245.3
52.5°	9639.2	7487.6	2630.9	512.8	308.4	245.3	223.0	223.0	223.0	226.7	223.0
55°	10296.9	8007.9	2980.2	538.8	286.1	226.7	204.4	196.9	196.9	200.7	196.9
57.5°	10832.0	8353.5	3310.9	542.5	267.5	208.1	189.5	178.4	178.4	178.4	178.4
60°	10854.3	8152.8	3407.5	475.6	245.3	189.5	170.9	156.1	159.8	159.8	159.8
62.5°	10144.5	7097.5	2738.7	356.7	219.2	170.9	156.1	141.2	141.2	141.2	141.2
65°	8751.1	5521.9	1605.3	282.4	189.5	152.4	137.5	126.3	126.3	126.3	122.6
66°	8097.1	4841.9	1230.0	256.4	178.4	148.6	133.8	122.6	118.9	115.2	115.2
67.5°	7030.6	3827.4	769.2	226.7	163.5	137.5	122.6	111.5	107.8	104.0	104.0
70°	5295.2	2430.2	375.3	174.6	141.2	118.9	107.8	96.6	92.9	89.2	85.5
72.5°	3716.0	1423.2	196.9	133.8	115.2	104.0	92.9	81.8	78.0	74.3	74.3
75°	2099.5	687.5	130.1	96.6	92.9	85.5	78.0	66.9	63.2	63.2	63.2
77.5°	795.2	237.8	89.2	70.6	74.3	66.9	55.7	55.7	52.0	55.7	52.0
80°	208.1	104.0	55.7	52.0	55.7	48.3	40.9	44.6	44.6	44.6	44.6
82.5°	111.5	59.5	33.4	37.2	33.4	33.4	26.0	29.7	33.4	29.7	33.4
85°	78.0	29.7	18.6	18.6	14.9	14.9	11.1	14.9	18.6	14.9	14.9
87.5°	40.9	11.1	11.1	11.1	11.1	7.4	3.7	0.0	3.7	3.7	3.7
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)