

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: P198955

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV2-AF-02-LED-U-T4W-7050-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7851 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

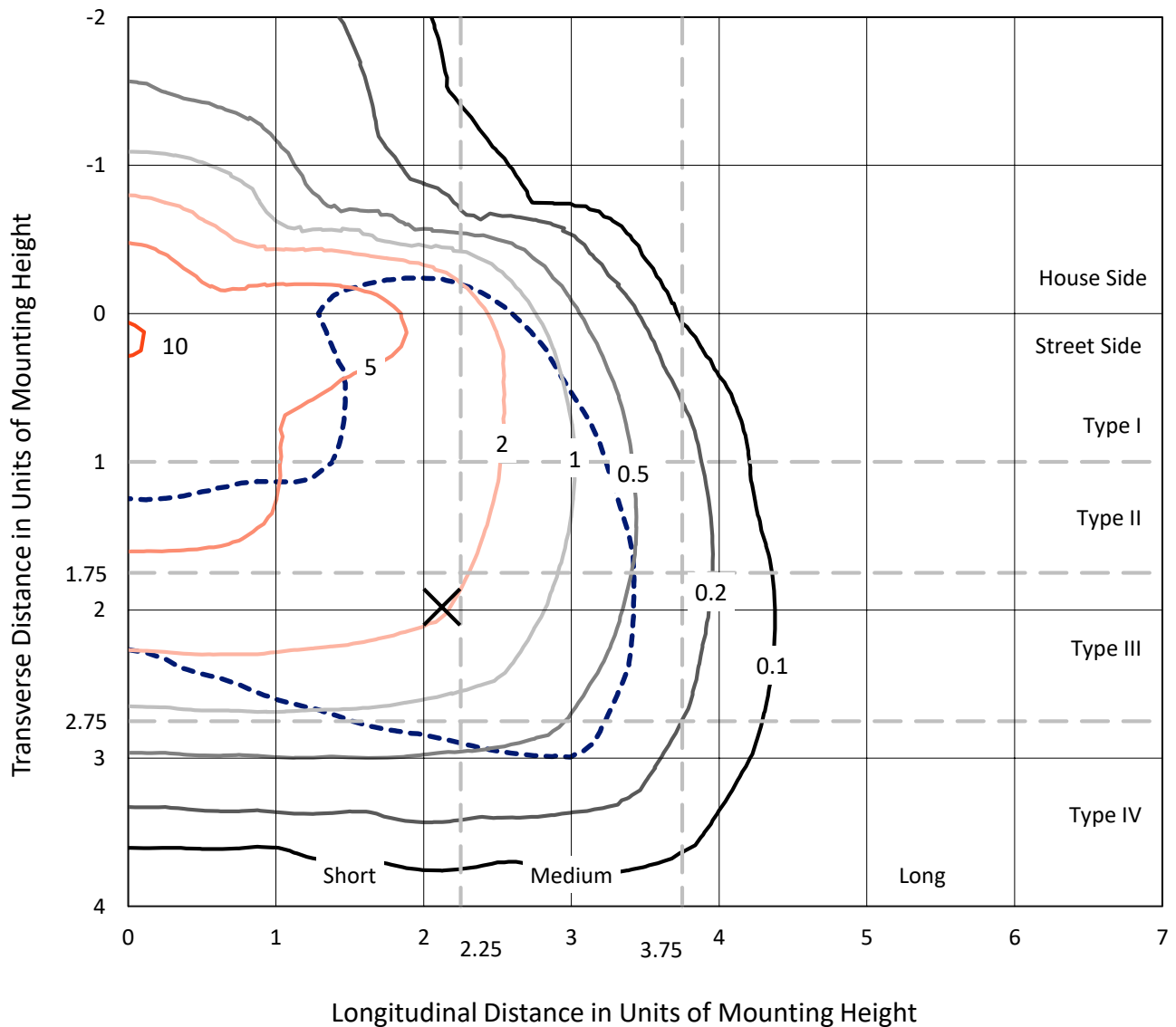
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

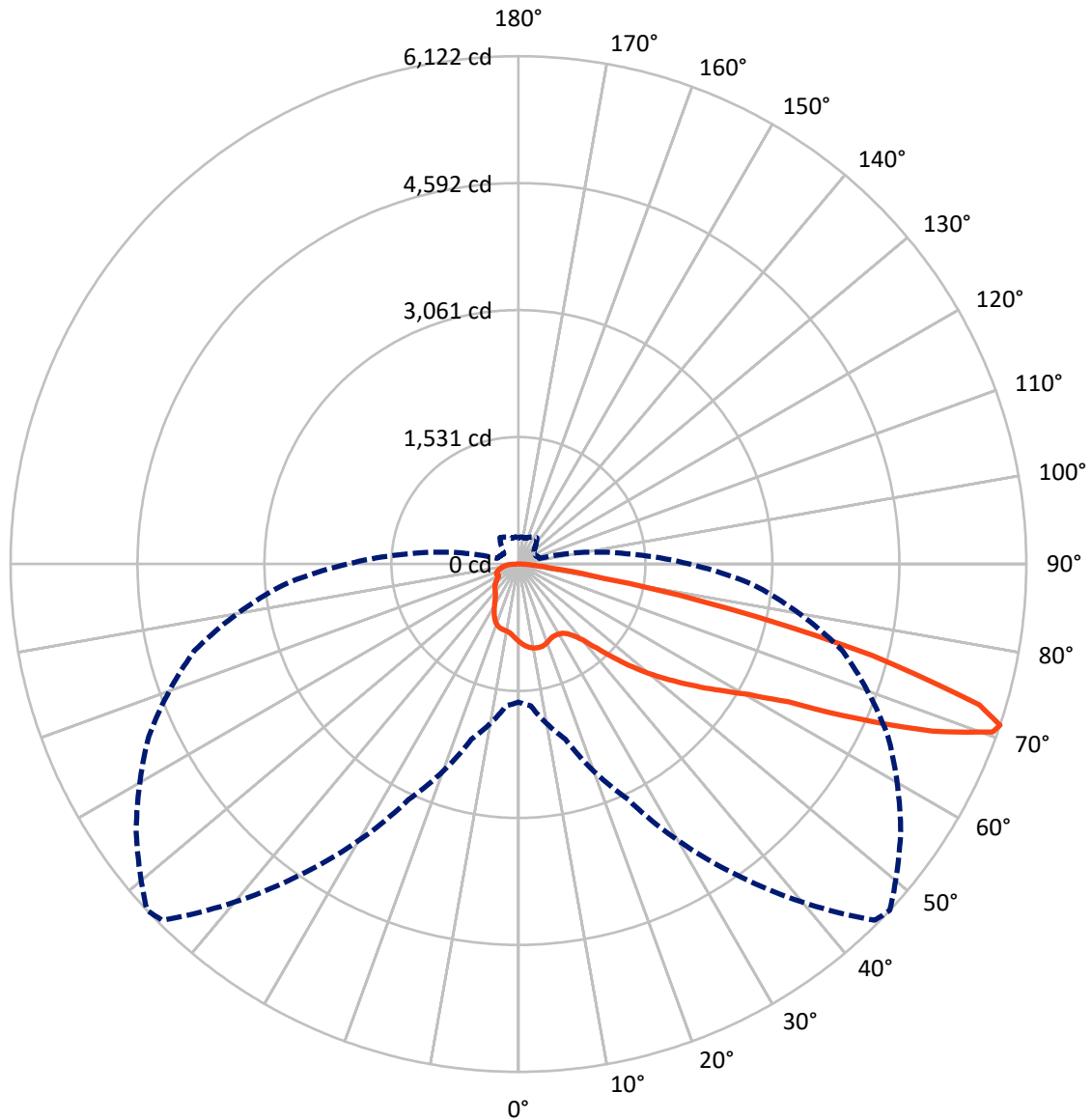
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1682.6	0.0	1682.6
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	6168.4	0.0	6168.4
	% Fixture	78.6	0.0	78.6
Total	Lumens	7851.0	0.0	7851.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.1	1.1
10°-20°	260.8	3.3
20°-30°	387.5	4.9
30°-40°	556.4	7.1
40°-50°	986.6	12.6
50°-60°	1688.1	21.5
60°-70°	2396.6	30.5
70°-80°	1312.6	16.7
80°-90°	173.3	2.2
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°	7851.0	100.0
0°-180°	7851.0	100.0

Coefficient of Utilization



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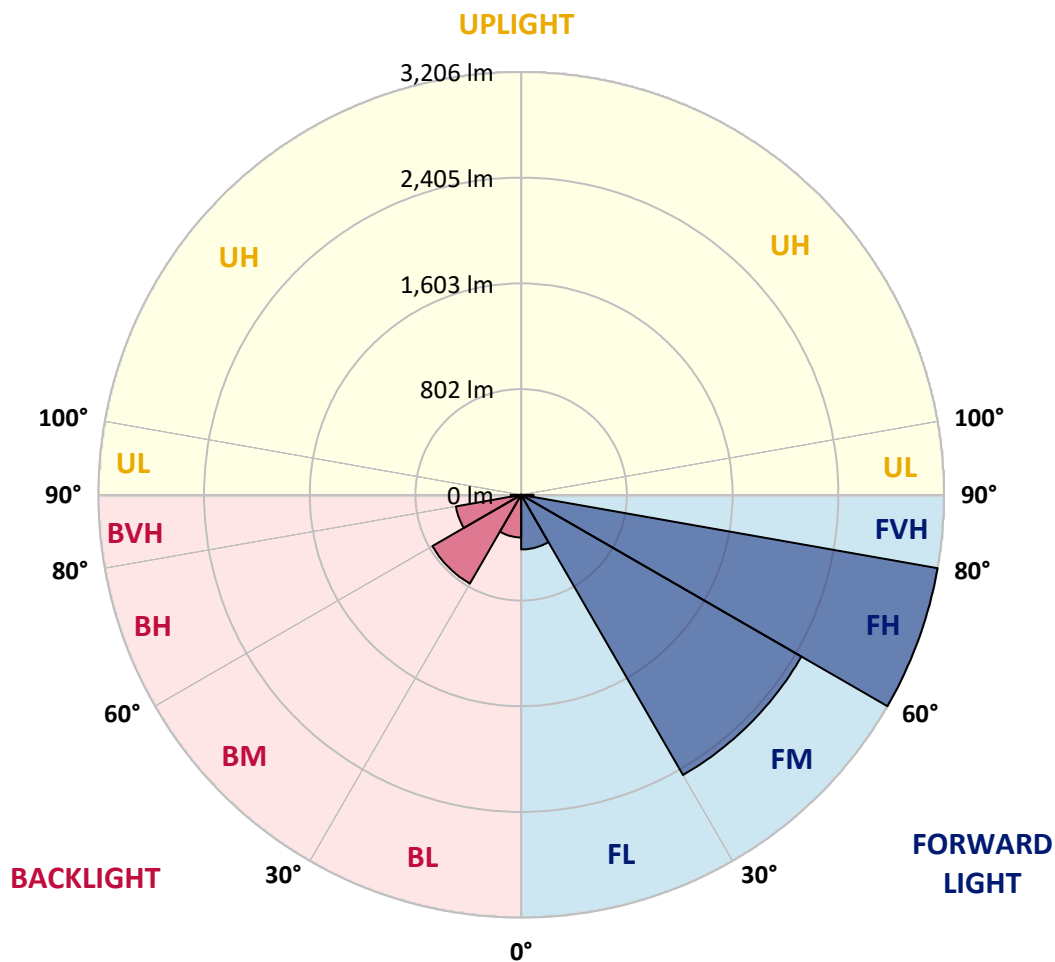
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.3	5.3			
FM	(30°-60°)	2453.7	31.3			
FH	(60°-80°)	3206.4	40.8			G2/5000
FVH	(80°-90°)	94.0	1.2			G1/100
BL	(0°-30°)	323.1	4.1	B1/500		
BM	(30°-60°)	777.4	9.9	B1/1000		
BH	(60°-80°)	502.7	6.4	B2/1000		G2/1000
BVH	(80°-90°)	79.3	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6
2.5°	990.6	988.6	989.6	986.0	977.4	968.2	968.2	958.5	948.4	938.2	927.0
5°	1052.2	1049.1	1046.6	1035.4	1018.6	999.8	996.7	977.4	956.5	935.7	915.3
7.5°	1103.5	1100.5	1092.9	1072.5	1048.1	1020.1	1016.5	991.1	963.6	934.6	906.1
10°	1140.2	1138.1	1123.4	1097.4	1069.0	1035.9	1029.8	1003.8	971.3	935.1	899.0
12.5°	1160.5	1157.5	1139.7	1109.1	1075.6	1042.0	1035.9	1011.0	973.8	934.1	891.9
15°	1152.4	1150.9	1134.1	1103.0	1069.5	1040.5	1035.4	1009.9	972.3	930.6	885.3
17.5°	1117.8	1121.4	1108.1	1077.6	1050.1	1029.8	1024.2	1000.3	964.7	921.9	875.1
20°	1070.0	1074.0	1067.4	1036.4	1020.6	1007.4	1004.3	985.0	951.9	909.2	862.9
22.5°	1019.1	1022.7	1023.2	994.2	989.1	984.0	981.4	967.7	940.7	901.6	854.8
25°	984.0	988.1	989.1	963.6	966.7	968.2	967.7	958.0	938.7	901.6	855.8
27.5°	974.8	976.9	975.8	952.4	958.0	966.7	967.2	965.2	946.8	911.7	870.0
30°	1006.4	1007.4	994.7	959.6	965.2	976.4	976.9	975.8	964.1	938.2	902.1
32.5°	1142.7	1141.7	1098.0	1007.4	988.1	992.1	993.7	1002.8	1003.8	981.9	948.4
35°	1350.3	1349.8	1298.9	1144.3	1053.2	1031.8	1033.8	1048.1	1060.8	1046.1	1026.7
37.5°	1578.8	1580.3	1549.2	1339.6	1193.6	1104.6	1102.5	1113.2	1136.1	1141.2	1143.7
40°	1832.1	1839.8	1838.2	1564.0	1390.5	1228.7	1208.4	1196.1	1240.4	1268.4	1304.5
42.5°	2121.6	2119.6	2120.6	1810.2	1615.4	1424.1	1386.4	1329.4	1380.8	1429.2	1508.5
45°	2370.4	2378.6	2384.7	2072.3	1867.2	1647.4	1609.3	1505.5	1551.8	1624.0	1745.1
47.5°	2620.7	2606.5	2617.7	2363.8	2147.6	1902.3	1853.0	1713.1	1756.3	1858.1	2042.3
50°	2912.3	2905.7	2854.8	2744.4	2486.4	2160.8	2096.2	1929.8	1992.9	2128.7	2409.1
52.5°	3173.8	3138.2	3098.5	3043.5	2819.7	2422.3	2340.4	2155.2	2271.2	2439.6	2864.4
55°	3269.4	3245.5	3293.3	3364.6	3172.3	2688.9	2597.3	2418.2	2585.1	2795.2	3400.2
57.5°	3371.2	3379.3	3487.2	3631.2	3506.0	2973.3	2874.1	2729.6	2929.6	3193.1	3999.0
60°	3422.1	3454.6	3669.8	3940.0	3823.5	3285.2	3190.1	3087.3	3311.7	3632.7	4596.3
62.5°	3430.7	3474.5	3779.2	4048.4	4260.5	3763.0	3653.1	3541.6	3788.9	4118.6	5028.8
65°	3272.0	3339.1	3769.6	4181.7	4658.9	4561.2	4491.5	4297.2	4427.9	4546.5	5102.6
67.5°	2805.4	2878.7	3396.6	4126.7	4978.4	5389.5	5376.3	5089.3	4921.5	4711.8	4555.6
70°	2059.0	2118.1	2615.6	3527.9	4839.0	6039.8	6063.2	5602.7	5059.3	4360.8	3387.5
71°	1665.2	1716.1	2185.2	3132.1	4567.3	6073.3	6122.2	5625.6	4915.9	4043.8	2836.0
72.5°	1036.4	1064.9	1451.0	2363.8	3932.9	5727.4	5809.8	5332.5	4464.1	3418.0	2004.6
75°	391.3	402.4	538.3	1042.5	2347.5	4302.8	4402.5	4030.1	3136.1	1951.2	839.0
77.5°	210.1	215.7	267.1	433.5	940.7	2466.6	2594.8	2298.7	1504.5	682.8	342.9
80°	140.9	144.5	184.7	256.9	432.5	939.2	1046.1	922.9	563.2	389.7	244.2
82.5°	91.1	93.1	125.7	168.9	279.3	330.2	377.0	393.8	351.6	279.3	147.5
85°	60.0	61.6	82.9	107.9	173.0	162.8	166.9	218.3	239.6	184.2	75.3
87.5°	34.6	35.6	49.9	55.5	77.8	61.1	66.1	103.8	142.5	120.1	43.2
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°	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6	933.6
2.5°	921.9	917.8	908.7	903.1	900.5	899.5	898.5	900.5	900.5	899.5	897.5
5°	905.1	897.5	882.2	871.5	865.9	864.4	866.5	869.0	870.5	870.5	869.0
7.5°	892.9	881.7	861.4	846.6	838.0	835.4	841.0	850.2	856.3	859.3	859.8
10°	882.7	867.5	845.1	829.8	822.7	821.7	828.8	840.5	853.2	858.8	859.8
12.5°	873.6	856.3	831.9	817.6	812.5	815.1	824.7	835.4	850.2	858.3	858.8
15°	864.9	847.1	821.2	806.4	805.4	809.5	818.6	827.3	838.5	848.6	848.6
17.5°	854.8	835.4	808.5	794.7	794.7	798.3	804.4	809.0	816.1	825.8	825.2
20°	842.5	822.7	795.2	781.0	777.9	775.9	775.9	776.9	783.0	791.7	793.2
22.5°	833.4	813.0	784.0	766.7	753.0	739.8	734.2	732.1	737.7	745.9	747.9
25°	833.4	813.0	780.5	751.5	717.9	692.5	681.8	678.7	684.3	691.9	695.0
27.5°	847.1	826.8	788.6	737.7	676.2	635.5	622.7	620.2	625.3	631.4	634.5
30°	879.2	859.3	812.0	722.0	629.9	576.5	562.2	559.7	562.2	564.7	568.3
32.5°	932.6	915.8	850.2	707.7	583.1	523.0	505.7	501.7	502.7	503.2	506.2
35°	1019.6	1012.0	901.1	690.9	538.8	479.3	461.5	453.3	452.8	455.4	458.9
37.5°	1152.9	1157.5	966.7	666.5	502.2	448.2	430.4	422.3	418.2	423.3	427.4
40°	1341.1	1351.8	1042.5	633.4	472.1	429.9	411.1	403.5	397.9	396.3	398.4
42.5°	1585.9	1582.8	1119.8	591.2	439.6	417.7	397.9	389.7	380.6	368.9	366.3
45°	1875.9	1832.1	1184.4	539.3	402.4	406.0	385.7	374.5	360.2	342.9	340.9
47.5°	2218.3	2097.7	1224.1	483.9	367.8	390.7	371.9	354.6	333.8	322.6	321.0
50°	2630.9	2408.6	1252.1	427.4	336.8	371.4	352.6	329.7	309.3	306.3	305.8
52.5°	3119.3	2775.4	1286.7	376.5	312.4	346.5	333.3	309.8	293.6	295.1	295.1
55°	3638.8	3155.0	1287.7	336.3	291.0	317.5	319.0	300.2	287.5	292.5	294.1
57.5°	4112.5	3486.7	1186.5	307.8	270.7	294.6	314.4	303.7	294.1	311.9	313.4
60°	4525.6	3742.1	968.7	284.4	253.9	285.9	324.6	325.6	323.6	371.9	375.5
62.5°	4676.7	3744.6	687.9	264.6	244.7	291.0	346.0	347.5	347.5	392.3	398.9
65°	4465.1	3432.8	457.9	252.9	238.6	302.2	363.3	356.7	340.9	371.9	364.8
67.5°	3719.2	2672.1	334.8	245.2	230.0	302.7	378.5	361.7	334.8	361.2	349.0
70°	2556.1	1700.4	280.3	238.1	219.8	289.5	386.7	360.2	325.6	336.8	320.5
71°	2057.5	1356.9	266.1	235.6	215.7	281.9	387.7	358.2	321.0	328.2	313.4
72.5°	1355.4	835.9	248.8	230.0	209.6	268.6	385.1	353.6	314.9	315.4	305.8
75°	534.7	346.5	223.9	217.3	192.3	247.3	374.0	343.9	303.2	293.1	289.0
77.5°	270.2	226.4	196.9	199.4	172.0	225.4	358.2	328.2	287.0	273.2	270.2
80°	197.4	172.0	168.4	173.0	149.1	204.0	338.3	306.8	266.1	280.3	274.2
82.5°	120.1	104.8	131.8	143.0	124.7	182.1	314.9	281.9	239.6	220.8	213.7
85°	57.0	61.6	95.1	105.3	92.1	145.5	288.0	254.4	209.1	180.6	183.7
87.5°	28.0	34.1	54.4	63.1	60.5	106.8	217.3	197.4	164.8	135.8	132.8
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)