

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: P199277

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199277
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-8030-800
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7856 lumens
Efficiency: N/A
Efficacy: 92.4 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): 85
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

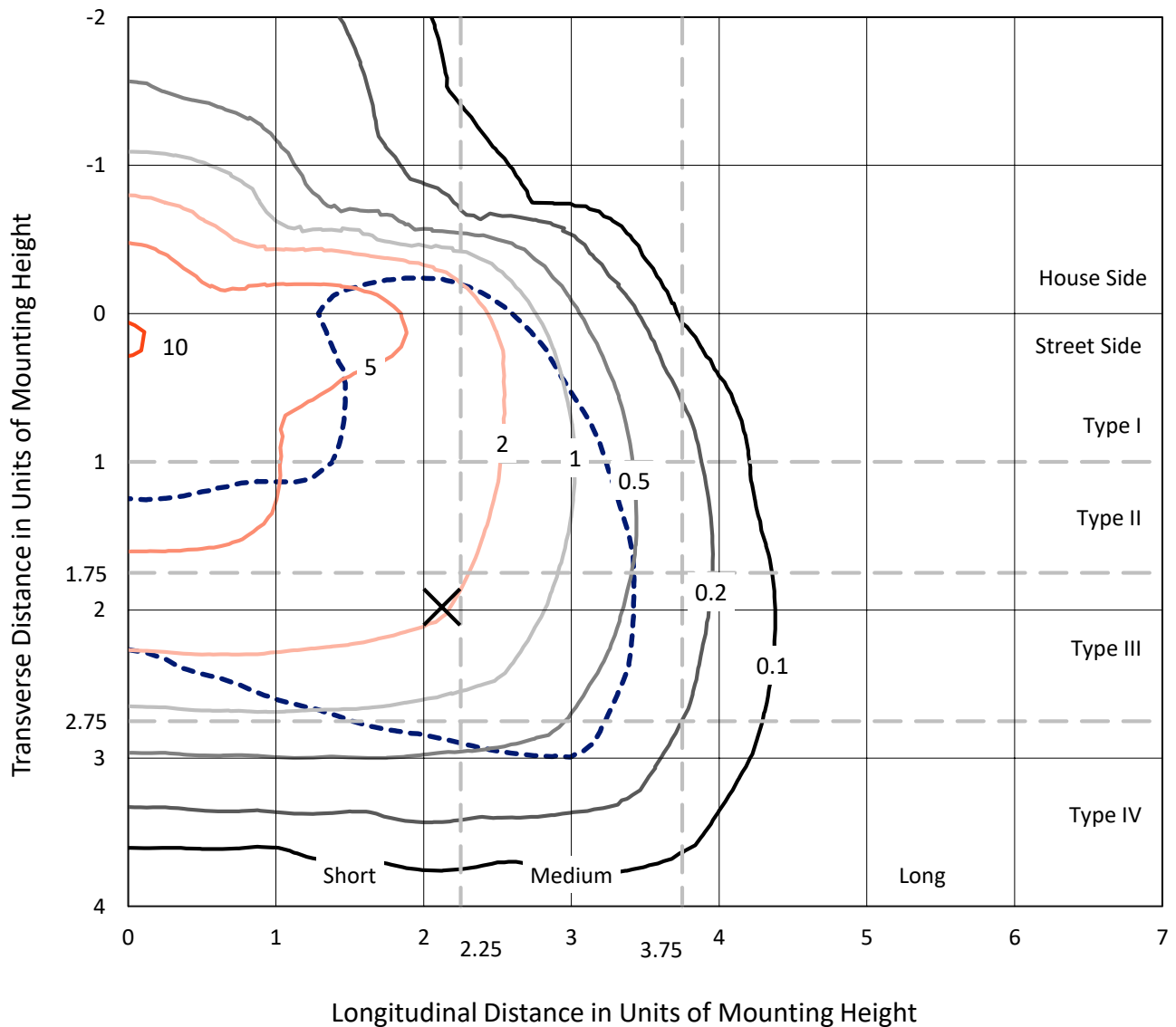


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

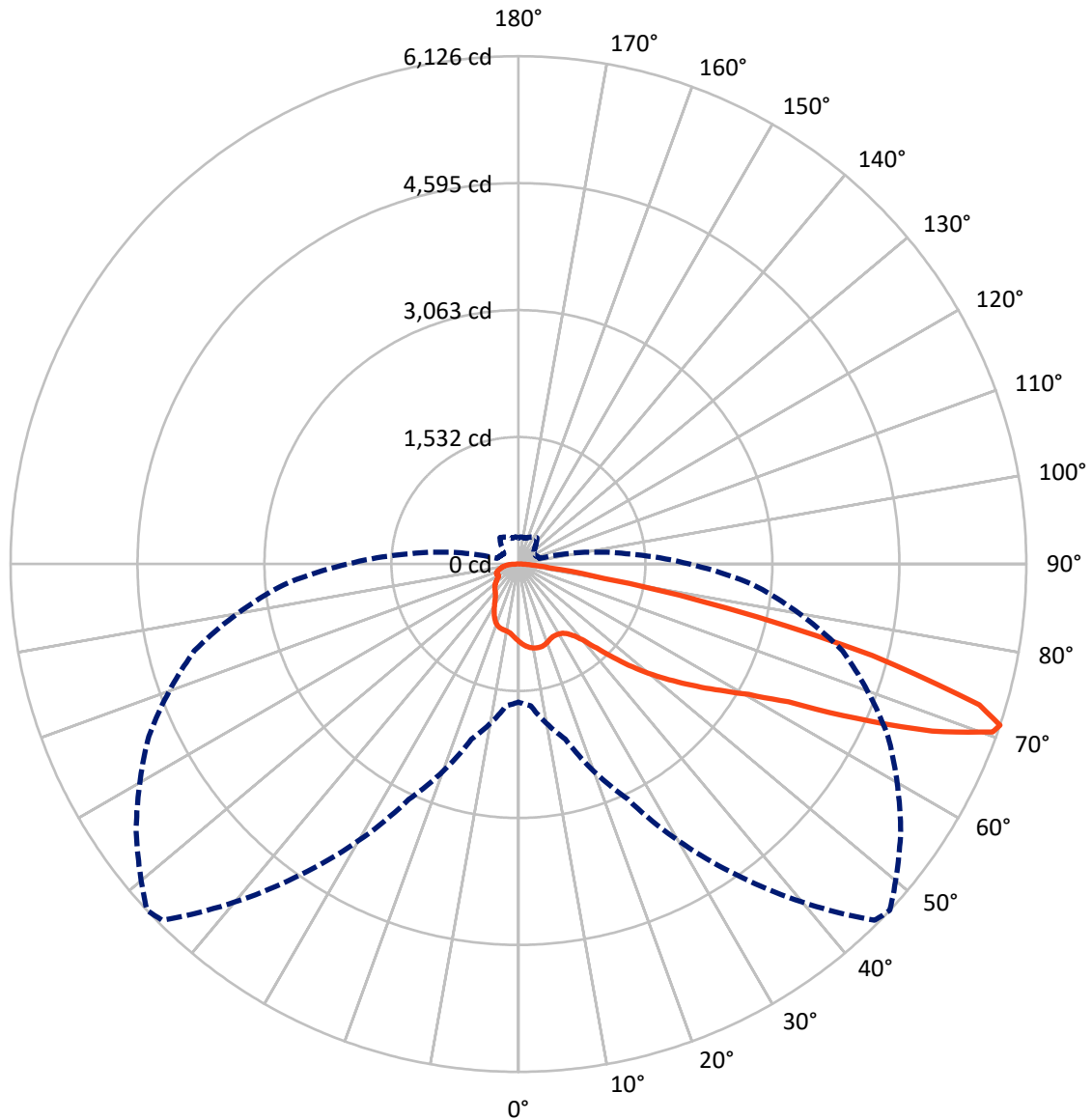


Based on 10 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Short - Semi-Cutoff

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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	1683.6	0.0	1683.6
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	6172.3	0.0	6172.3
	% Fixture	78.6	0.0	78.6
Total	Lumens	7856.0	0.0	7856.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	1.1
10°-20°	261.0	3.3
20°-30°	387.8	4.9
30°-40°	556.8	7.1
40°-50°	987.2	12.6
50°-60°	1689.2	21.5
60°-70°	2398.1	30.5
70°-80°	1313.4	16.7
80°-90°	173.4	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°	7856.0	100.0
0°-180°	7856.0	100.0

Coefficient of Utilization



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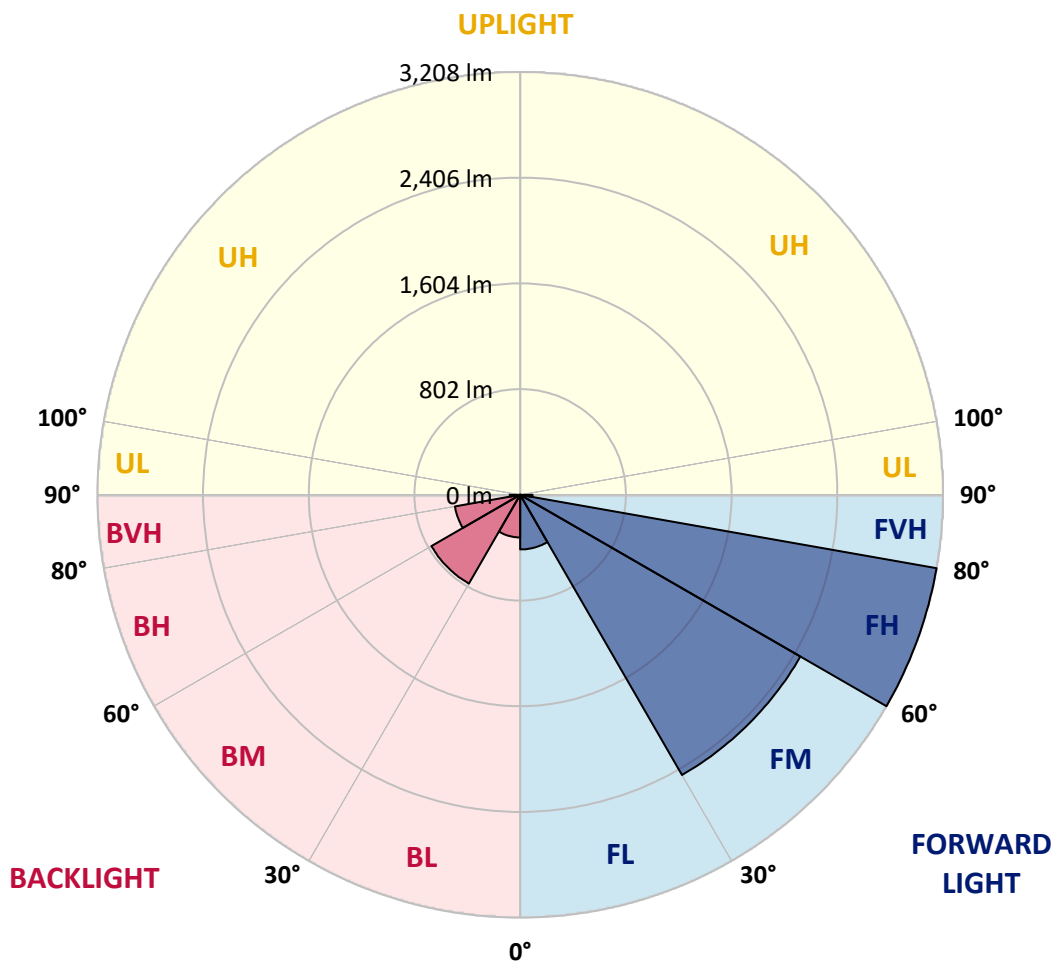
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	414.6	5.3			
FM	(30°-60°)	2455.2	31.3			
FH	(60°-80°)	3208.5	40.8			G2/5000
FVH	(80°-90°)	94.0	1.2			G1/100
BL	(0°-30°)	323.3	4.1	B1/500		
BM	(30°-60°)	777.9	9.9	B1/1000		
BH	(60°-80°)	503.1	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°	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
2.5°	991.2	989.2	990.2	986.6	978.0	968.8	968.8	959.2	949.0	938.8	927.6
5°	1052.8	1049.8	1047.2	1036.0	1019.2	1000.4	997.3	978.0	957.1	936.2	915.9
7.5°	1104.3	1101.2	1093.6	1073.2	1048.8	1020.8	1017.2	991.7	964.2	935.2	906.7
10°	1140.9	1138.9	1124.1	1098.1	1069.6	1036.5	1030.4	1004.5	971.9	935.7	899.6
12.5°	1161.3	1158.2	1140.4	1109.9	1076.3	1042.6	1036.5	1011.6	974.4	934.7	892.5
15°	1153.1	1151.6	1134.8	1103.7	1070.1	1041.1	1036.0	1010.6	972.9	931.2	885.8
17.5°	1118.5	1122.1	1108.8	1078.3	1050.8	1030.4	1024.8	1000.9	965.3	922.5	875.7
20°	1070.7	1074.7	1068.1	1037.0	1021.3	1008.0	1005.0	985.6	952.5	909.8	863.4
22.5°	1019.7	1023.3	1023.8	994.8	989.7	984.6	982.1	968.3	941.3	902.1	855.3
25°	984.6	988.7	989.7	964.2	967.3	968.8	968.3	958.6	939.3	902.1	856.3
27.5°	975.4	977.5	976.5	953.0	958.6	967.3	967.8	965.8	947.4	912.3	870.6
30°	1007.0	1008.0	995.3	960.2	965.8	977.0	977.5	976.5	964.8	938.8	902.6
32.5°	1143.5	1142.4	1098.7	1008.0	988.7	992.8	994.3	1003.4	1004.5	982.6	949.0
35°	1351.2	1350.7	1299.7	1145.0	1053.8	1032.5	1034.5	1048.8	1061.5	1046.7	1027.4
37.5°	1579.8	1581.3	1550.2	1340.5	1194.4	1105.3	1103.2	1113.9	1136.8	1141.9	1144.5
40°	1833.3	1840.9	1839.4	1565.0	1391.4	1229.5	1209.1	1196.9	1241.2	1269.2	1305.3
42.5°	2123.0	2120.9	2122.0	1811.4	1616.4	1425.0	1387.3	1330.3	1381.7	1430.1	1509.5
45°	2371.9	2380.1	2386.2	2073.6	1868.4	1648.5	1610.3	1506.4	1552.8	1625.1	1746.2
47.5°	2622.4	2608.2	2619.4	2365.3	2148.9	1903.5	1854.2	1714.2	1757.4	1859.3	2043.6
50°	2914.1	2907.5	2856.6	2746.1	2488.0	2162.2	2097.5	1931.0	1994.2	2130.1	2410.6
52.5°	3175.8	3140.2	3100.5	3045.5	2821.5	2423.9	2341.9	2156.6	2272.7	2441.2	2866.3
55°	3271.5	3247.6	3295.4	3366.7	3174.3	2690.6	2599.0	2419.8	2586.8	2797.0	3402.4
57.5°	3373.3	3381.5	3489.4	3633.5	3508.3	2975.2	2875.9	2731.4	2931.4	3195.2	4001.6
60°	3424.2	3456.8	3672.2	3942.5	3825.9	3287.3	3192.1	3089.3	3313.8	3635.0	4599.3
62.5°	3432.9	3476.7	3781.6	4051.0	4263.3	3765.3	3655.4	3543.9	3791.3	4121.2	5032.0
65°	3274.1	3341.3	3772.0	4184.3	4661.9	4564.1	4494.4	4299.9	4430.8	4549.4	5105.8
67.5°	2807.2	2880.5	3398.8	4129.4	4981.6	5393.0	5379.7	5092.6	4924.6	4714.8	4558.5
70°	2060.4	2119.4	2617.3	3530.1	4842.1	6043.6	6067.0	5606.3	5062.6	4363.5	3389.6
71°	1666.3	1717.2	2186.6	3134.1	4570.2	6077.2	6126.1	5629.2	4919.0	4046.4	2837.8
72.5°	1037.0	1065.6	1452.0	2365.3	3935.4	5731.0	5813.5	5335.9	4466.9	3420.2	2005.9
75°	391.5	402.7	538.6	1043.2	2349.0	4305.5	4405.3	4032.6	3138.1	1952.4	839.5
77.5°	210.3	215.9	267.3	433.8	941.3	2468.1	2596.4	2300.1	1505.4	683.2	343.1
80°	141.0	144.6	184.8	257.1	432.7	939.8	1046.7	923.5	563.6	390.0	244.4
82.5°	91.1	93.2	125.7	169.0	279.5	330.4	377.2	394.0	351.8	279.5	147.6
85°	60.1	61.6	83.0	107.9	173.1	162.9	167.0	218.4	239.8	184.3	75.3
87.5°	34.6	35.6	49.9	55.5	77.9	61.1	66.2	103.9	142.5	120.1	43.3
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°	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2	934.2
2.5°	922.5	918.4	909.3	903.7	901.1	900.1	899.1	901.1	901.1	900.1	898.1
5°	905.7	898.1	882.8	872.1	866.5	865.0	867.0	869.6	871.1	871.1	869.6
7.5°	893.5	882.3	861.9	847.2	838.5	836.0	841.6	850.7	856.8	859.9	860.4
10°	883.3	868.0	845.6	830.4	823.2	822.2	829.3	841.0	853.8	859.4	860.4
12.5°	874.1	856.8	832.4	818.1	813.0	815.6	825.3	836.0	850.7	858.9	859.4
15°	865.5	847.7	821.7	806.9	805.9	810.0	819.2	827.8	839.0	849.2	849.2
17.5°	855.3	836.0	809.0	795.2	795.2	798.8	804.9	809.5	816.6	826.3	825.8
20°	843.1	823.2	795.7	781.5	778.4	776.4	776.4	777.4	783.5	792.2	793.7
22.5°	833.9	813.6	784.5	767.2	753.5	740.2	734.6	732.6	738.2	746.3	748.4
25°	833.9	813.6	781.0	751.9	718.3	692.9	682.2	679.1	684.7	692.4	695.4
27.5°	847.7	827.3	789.1	738.2	676.6	635.9	623.1	620.6	625.7	631.8	634.9
30°	879.7	859.9	812.5	722.4	630.3	576.8	562.6	560.0	562.6	565.1	568.7
32.5°	933.2	916.4	850.7	708.2	583.4	523.4	506.1	502.0	503.0	503.5	506.6
35°	1020.2	1012.6	901.6	691.4	539.1	479.6	461.8	453.6	453.1	455.7	459.2
37.5°	1153.6	1158.2	967.3	666.9	502.5	448.5	430.7	422.6	418.5	423.6	427.6
40°	1342.0	1352.7	1043.2	633.8	472.5	430.2	411.4	403.7	398.1	396.6	398.6
42.5°	1586.9	1583.8	1120.5	591.6	439.9	418.0	398.1	390.0	380.8	369.1	366.6
45°	1877.1	1833.3	1185.2	539.7	402.7	406.3	385.9	374.7	360.4	343.1	341.1
47.5°	2219.7	2099.0	1224.9	484.2	368.1	391.0	372.2	354.8	334.0	322.8	321.2
50°	2632.6	2410.1	1252.9	427.6	337.0	371.6	352.8	329.9	309.5	306.5	306.0
52.5°	3121.3	2777.2	1287.5	376.7	312.6	346.7	333.5	310.0	293.8	295.3	295.3
55°	3641.1	3157.0	1288.5	336.5	291.2	317.7	319.2	300.4	287.6	292.7	294.3
57.5°	4115.1	3488.9	1187.2	308.0	270.8	294.8	314.6	303.9	294.3	312.1	313.6
60°	4528.5	3744.5	969.3	284.6	254.0	286.1	324.8	325.8	323.8	372.2	375.7
62.5°	4679.7	3747.0	688.3	264.7	244.9	291.2	346.2	347.7	347.7	392.5	399.1
65°	4467.9	3434.9	458.2	253.0	238.8	302.4	363.5	356.9	341.1	372.2	365.0
67.5°	3721.6	2673.8	335.0	245.4	230.1	302.9	378.8	362.0	335.0	361.5	349.2
70°	2557.7	1701.4	280.5	238.3	219.9	289.7	386.9	360.4	325.8	337.0	320.7
71°	2058.8	1357.8	266.3	235.7	215.9	282.0	387.9	358.4	321.2	328.4	313.6
72.5°	1356.3	836.5	249.0	230.1	209.8	268.8	385.4	353.8	315.1	315.6	306.0
75°	535.1	346.7	224.0	217.4	192.4	247.4	374.2	344.2	303.4	293.2	289.2
77.5°	270.3	226.6	197.0	199.6	172.1	225.5	358.4	328.4	287.1	273.4	270.3
80°	197.5	172.1	168.5	173.1	149.2	204.2	338.6	307.0	266.3	280.5	274.4
82.5°	120.1	104.9	131.9	143.1	124.7	182.3	315.1	282.0	239.8	221.0	213.8
85°	57.0	61.6	95.2	105.4	92.1	145.6	288.2	254.6	209.2	180.7	183.8
87.5°	28.0	34.1	54.5	63.1	60.6	106.9	217.4	197.5	165.0	135.9	132.9
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)