

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: P271354

Luminaire Tested: **XNV2-AF-02-LED-U-T4FT-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
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-T4FT-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6957.7 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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

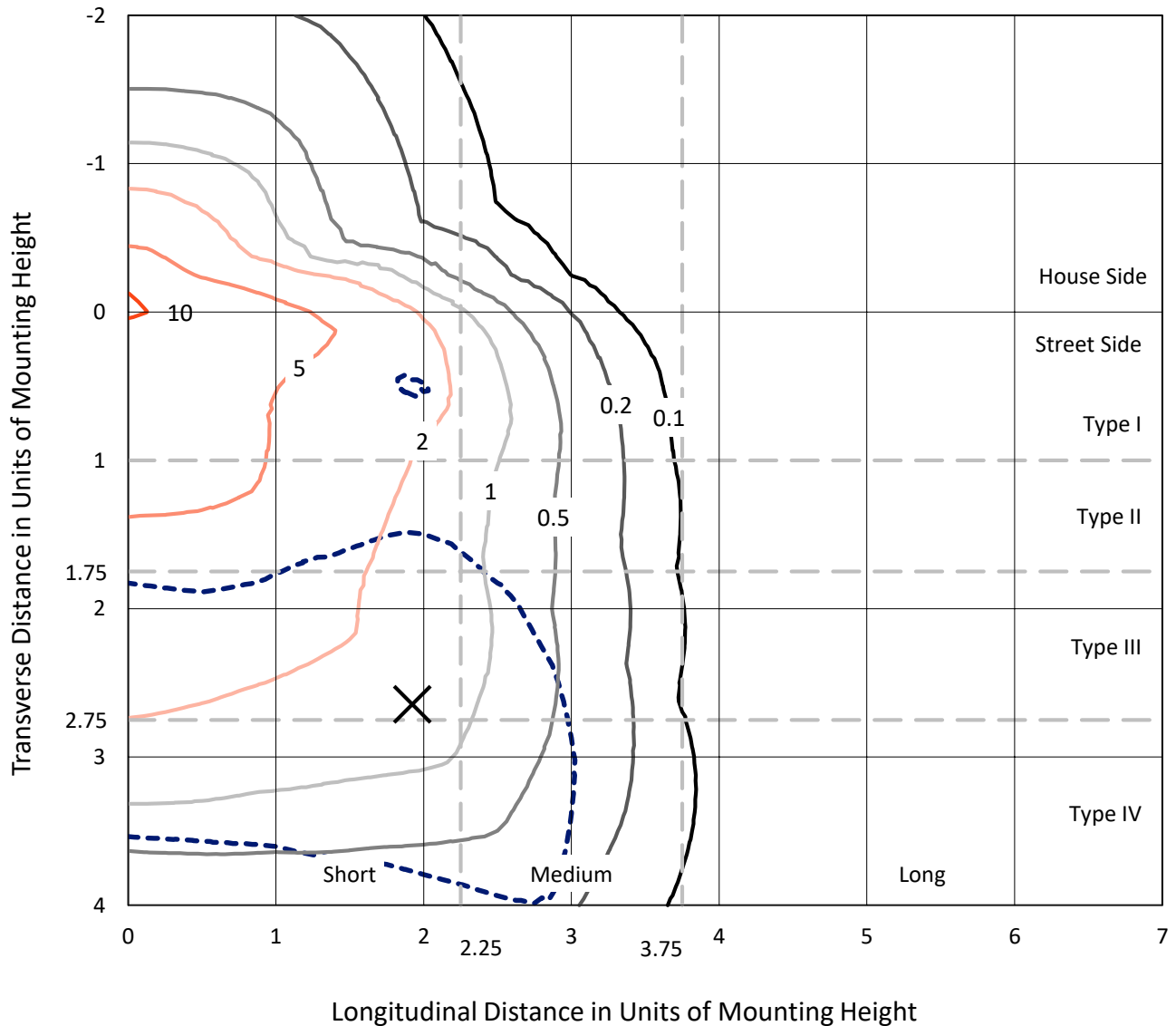


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

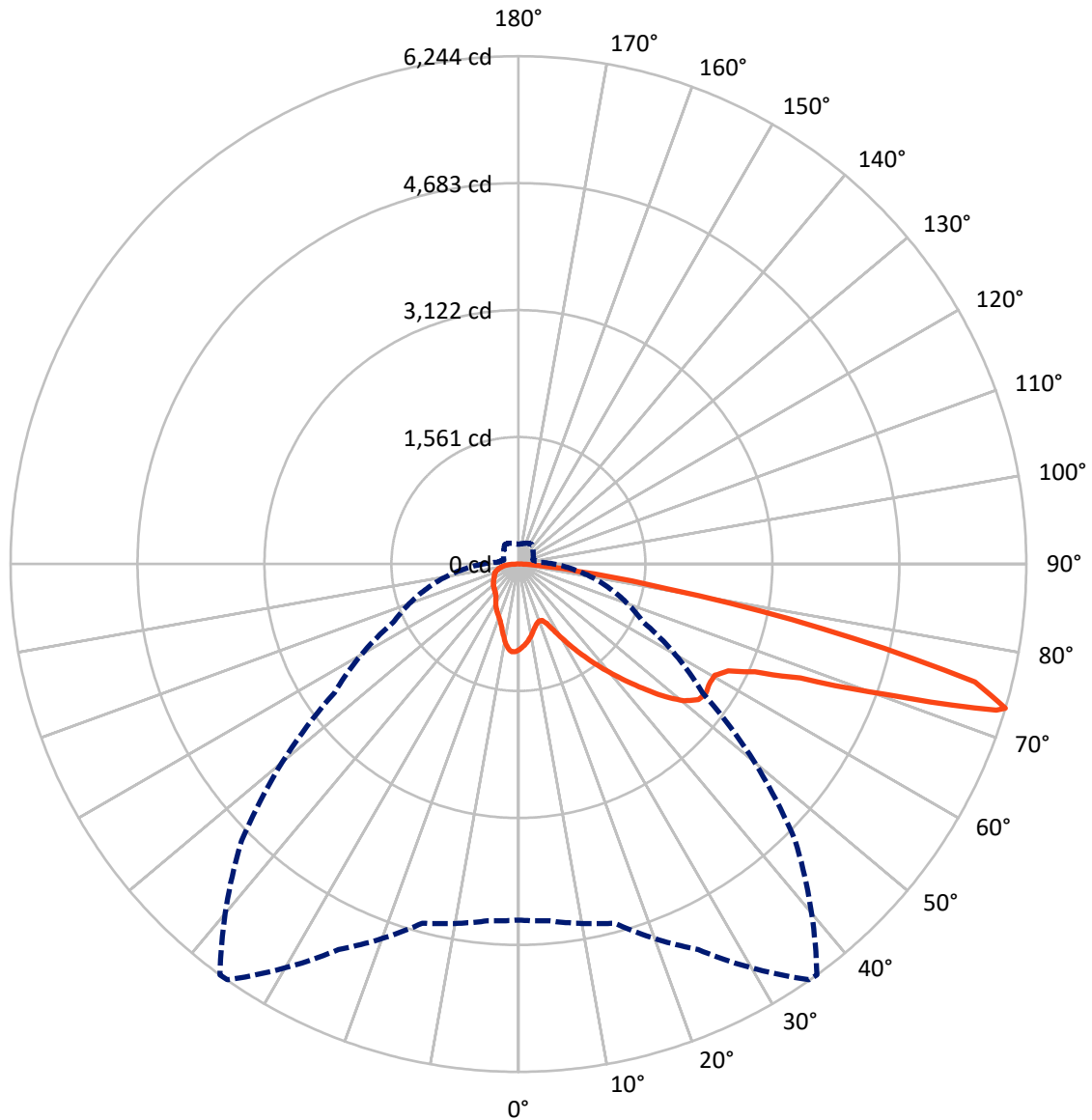


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.7	0.0	1341.7
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	5616.1	0.0	5616.1
	% Fixture	80.7	0.0	80.7
Total	Lumens	6957.7	0.0	6957.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.4
10°-20°	240.4	3.5
20°-30°	385.5	5.5
30°-40°	637.6	9.2
40°-50°	986.6	14.2
50°-60°	1320.7	19.0
60°-70°	1725.3	24.8
70°-80°	1409.2	20.3
80°-90°	156.8	2.3
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°	6957.7	100.0
0°-180°	6957.7	100.0

Coefficient of Utilization



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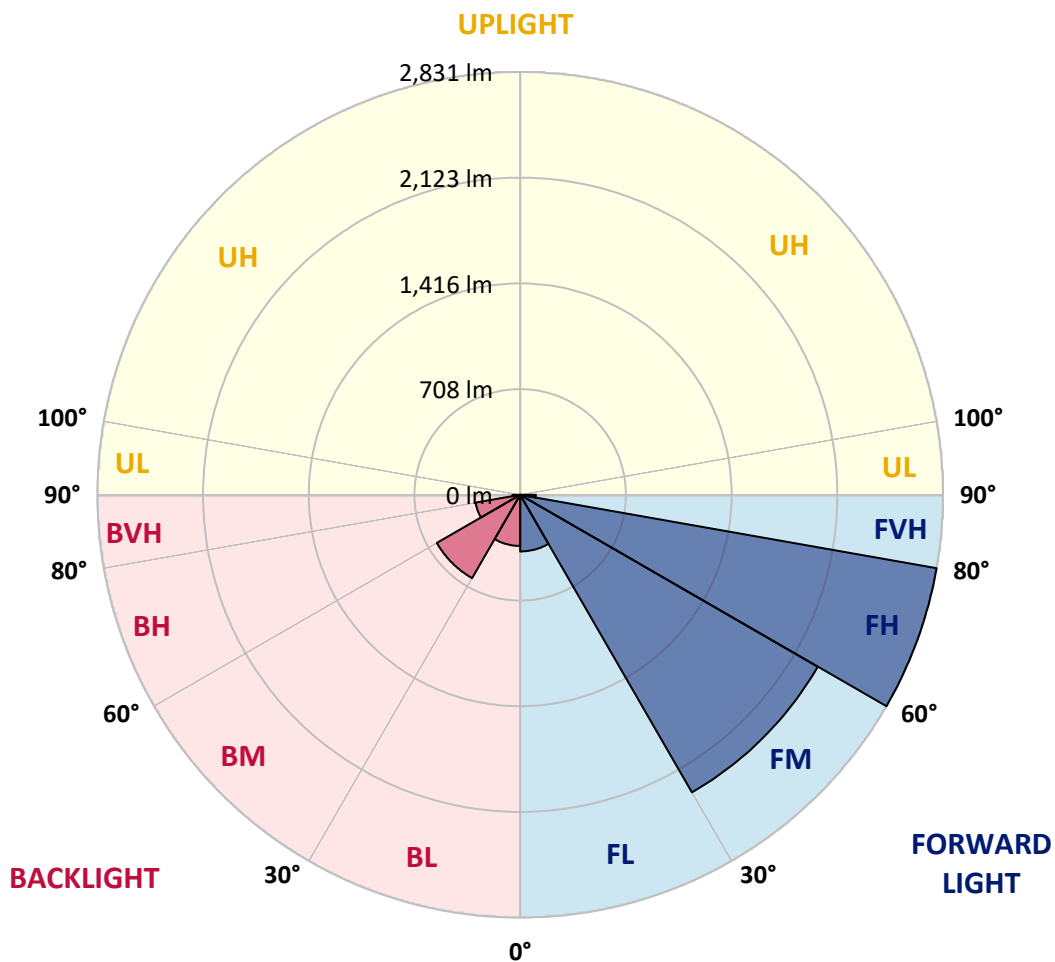
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	379.1	5.4			
FM (30°-60°)	2300.5	33.1			
FH (60°-80°)	2831.3	40.7			G2/5000
FVH (80°-90°)	105.2	1.5			G2/225
BL (0°-30°)	342.5	4.9	B1/500		
BM (30°-60°)	644.3	9.3	B1/1000		
BH (60°-80°)	303.2	4.4	B1/500		G1/500
BVH (80°-90°)	51.7	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9
2.5°	1013.6	1016.3	1016.7	1019.8	1019.8	1019.3	1020.7	1026.0	1028.6	1034.8	1040.1
5°	963.7	966.8	968.2	973.5	980.1	980.5	985.4	995.5	1005.3	1018.9	1030.4
7.5°	907.6	911.2	914.7	925.8	935.5	936.4	945.6	961.9	974.8	991.5	1012.3
10°	853.2	854.1	857.6	871.7	884.7	885.9	899.2	917.8	935.0	958.4	981.8
12.5°	808.6	811.2	810.4	821.0	832.0	832.9	850.5	874.1	899.2	925.8	953.6
15°	793.1	792.7	783.3	783.0	787.8	788.6	805.9	833.3	861.6	894.4	930.1
17.5°	803.7	800.1	775.9	760.9	757.7	758.6	771.5	801.5	831.6	869.1	912.0
20°	862.1	848.3	791.2	755.0	744.9	744.9	752.4	776.8	809.9	853.6	907.6
22.5°	1000.4	979.2	857.6	793.1	757.4	753.7	748.0	766.6	803.3	855.8	925.8
25°	1174.5	1164.5	979.2	894.4	820.5	809.1	770.9	777.7	817.0	879.7	975.2
27.5°	1335.9	1318.3	1138.8	1041.6	937.2	919.5	839.0	812.1	849.6	923.9	1046.9
30°	1430.1	1418.2	1302.8	1209.9	1085.7	1063.1	947.8	880.2	907.9	996.8	1148.6
32.5°	1532.7	1525.6	1467.2	1382.9	1246.7	1220.5	1088.3	991.1	997.3	1093.6	1270.9
35°	1632.1	1641.5	1608.2	1546.3	1420.0	1395.5	1277.1	1136.1	1107.4	1202.4	1401.7
37.5°	1751.4	1753.8	1732.9	1692.6	1602.0	1582.2	1484.4	1290.9	1227.2	1318.3	1528.2
40°	1989.7	1954.8	1873.4	1841.6	1787.7	1775.3	1663.9	1432.7	1338.6	1437.2	1647.6
42.5°	2247.5	2193.1	2065.8	2013.6	1991.9	1980.5	1813.4	1527.4	1442.9	1556.0	1764.7
45°	2455.2	2411.1	2286.4	2221.9	2224.6	2205.9	1943.8	1611.7	1556.0	1675.5	1895.7
47.5°	2659.9	2586.1	2446.4	2437.1	2468.1	2440.7	2068.4	1696.2	1674.1	1805.5	2026.4
50°	2673.1	2606.1	2549.4	2623.7	2676.7	2642.8	2181.7	1806.8	1796.6	1962.7	2195.3
52.5°	2511.8	2502.0	2588.3	2713.4	2801.4	2770.9	2274.0	1920.3	1921.7	2159.5	2400.9
55°	2453.0	2440.7	2544.1	2698.0	2816.8	2798.7	2343.0	2048.6	2060.5	2398.3	2621.4
57.5°	2552.1	2521.2	2541.5	2668.8	2780.7	2770.1	2414.6	2190.8	2212.5	2673.1	2825.3
60°	2859.3	2796.1	2688.2	2712.2	2782.0	2775.8	2517.1	2349.5	2385.9	2959.6	2954.3
62.5°	3319.4	3247.9	3028.1	2922.0	2906.6	2894.7	2686.4	2544.5	2562.7	3166.5	2879.2
65°	3824.4	3747.4	3486.1	3312.4	3221.3	3195.7	2959.6	2779.7	2666.1	3166.0	2586.5
67.5°	4391.1	4309.7	4049.4	3883.6	3785.0	3741.3	3403.0	2969.8	2632.6	2898.2	2069.8
70°	4971.5	4894.1	4774.9	4832.7	4876.0	4809.3	4101.5	3033.0	2391.2	2272.3	1389.9
72.5°	4663.5	4657.3	4747.8	5296.9	6131.9	6145.1	4799.1	2854.5	1847.5	1350.5	740.9
73°	4377.4	4403.4	4571.5	5228.3	6239.4	6243.8	4812.8	2762.1	1696.2	1163.6	650.7
75°	2267.9	2444.6	3067.9	4239.5	5777.4	5798.2	4242.5	2091.0	1011.0	646.3	438.6
77.5°	607.4	599.4	988.5	2065.4	3851.8	3824.4	2680.7	1012.3	484.5	405.3	307.7
80°	208.1	210.8	336.4	755.6	1797.9	1861.9	1163.6	441.6	318.7	282.4	218.0
82.5°	106.1	109.7	176.0	321.4	751.9	736.0	374.5	259.9	213.4	171.5	122.0
85°	56.7	58.4	96.7	166.6	275.9	279.0	131.7	138.8	135.7	97.2	60.1
87.5°	27.8	28.7	46.4	73.4	102.0	98.5	46.0	60.1	66.7	54.8	33.1
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°	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9	1053.9
2.5°	1046.9	1046.9	1052.5	1062.2	1069.3	1076.0	1080.4	1087.5	1091.5	1091.0	1090.6
5°	1039.8	1044.2	1055.7	1067.5	1075.5	1080.9	1080.9	1084.0	1084.0	1082.6	1080.9
7.5°	1023.3	1031.0	1047.8	1058.4	1060.4	1054.8	1043.3	1034.5	1023.3	1017.6	1015.4
10°	997.3	1007.0	1028.3	1033.1	1021.6	1001.3	973.5	949.6	928.4	918.6	915.6
12.5°	971.6	984.5	1004.3	996.8	969.5	929.7	886.7	854.1	830.3	821.0	817.8
15°	950.4	965.9	981.4	958.0	910.3	854.9	807.7	777.2	759.1	751.9	750.2
17.5°	936.4	954.4	959.7	915.9	849.6	787.8	745.8	725.9	717.9	714.8	714.0
20°	937.2	957.6	944.7	875.3	791.2	729.0	701.1	695.4	695.4	695.4	694.8
22.5°	961.5	979.2	938.5	837.3	735.2	679.5	667.5	672.4	676.0	676.0	675.4
25°	1011.9	1021.6	943.0	800.6	682.5	636.5	637.0	646.3	649.5	649.5	648.5
27.5°	1088.8	1080.9	950.9	760.0	630.8	597.7	603.9	612.3	614.5	613.2	612.7
30°	1185.1	1153.3	957.6	712.1	582.2	561.4	566.7	571.6	569.9	566.7	566.3
32.5°	1293.0	1227.2	953.6	658.6	539.3	523.8	526.9	529.6	526.9	519.4	519.4
35°	1400.0	1293.9	931.9	600.3	505.2	487.6	487.2	495.5	495.1	486.3	486.7
37.5°	1493.7	1346.5	890.0	546.9	476.1	461.1	462.8	468.1	470.8	458.9	457.5
40°	1575.5	1382.9	830.7	501.3	452.7	453.6	448.8	440.3	437.2	431.9	430.9
42.5°	1652.4	1408.1	768.0	463.3	440.8	450.9	434.6	414.7	406.3	411.2	414.2
45°	1728.1	1436.3	707.3	431.9	425.6	443.0	420.3	398.3	388.5	390.9	393.8
47.5°	1820.4	1475.6	634.4	398.3	402.7	428.3	411.6	387.7	373.1	364.3	361.6
50°	1942.0	1532.7	539.8	362.0	378.5	412.4	404.1	372.2	356.3	338.7	334.2
52.5°	2094.0	1586.5	444.3	332.9	358.6	398.8	391.8	359.0	339.5	318.3	314.8
55°	2245.8	1594.1	362.0	307.7	336.0	380.3	376.6	348.4	321.0	303.6	300.2
57.5°	2351.9	1522.9	306.9	286.5	314.2	357.2	362.9	335.5	305.5	292.2	290.1
60°	2353.6	1352.8	273.3	272.4	298.0	337.4	348.8	320.4	295.7	286.9	285.1
62.5°	2166.6	1090.2	251.5	261.6	286.0	321.0	338.2	312.2	293.6	290.1	288.3
65°	1816.1	805.4	234.3	252.0	275.1	307.2	329.4	309.5	292.7	291.3	290.1
67.5°	1340.8	552.2	219.7	239.6	262.6	293.0	321.0	305.5	287.4	292.7	291.0
70°	843.5	368.7	206.0	225.5	246.2	276.8	309.8	298.3	280.7	277.7	271.8
72.5°	476.1	266.5	189.6	207.2	225.0	255.1	294.9	286.5	265.7	253.3	247.6
73°	430.1	252.5	185.7	202.8	220.2	250.6	291.3	283.0	261.2	247.6	242.3
75°	314.8	206.4	167.5	184.8	199.9	230.3	274.5	265.2	241.9	225.5	221.9
77.5°	228.1	159.1	144.1	159.5	172.8	201.9	249.3	238.7	215.8	206.9	203.3
80°	164.5	120.7	119.4	134.3	145.9	175.4	222.4	211.3	189.3	215.2	209.6
82.5°	98.2	77.3	87.6	104.4	116.3	147.2	193.1	180.4	159.1	160.8	137.0
85°	46.8	43.7	54.3	68.5	77.0	100.8	160.8	150.7	127.3	104.4	102.0
87.5°	20.8	19.9	26.1	30.5	41.1	60.5	110.1	97.6	92.3	55.2	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

(END OF REPORT)