

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: P199259

Luminaire Tested: **XNV2-AF-02-LED-U-T3R-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24250)
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-T3R-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6594 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Full 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

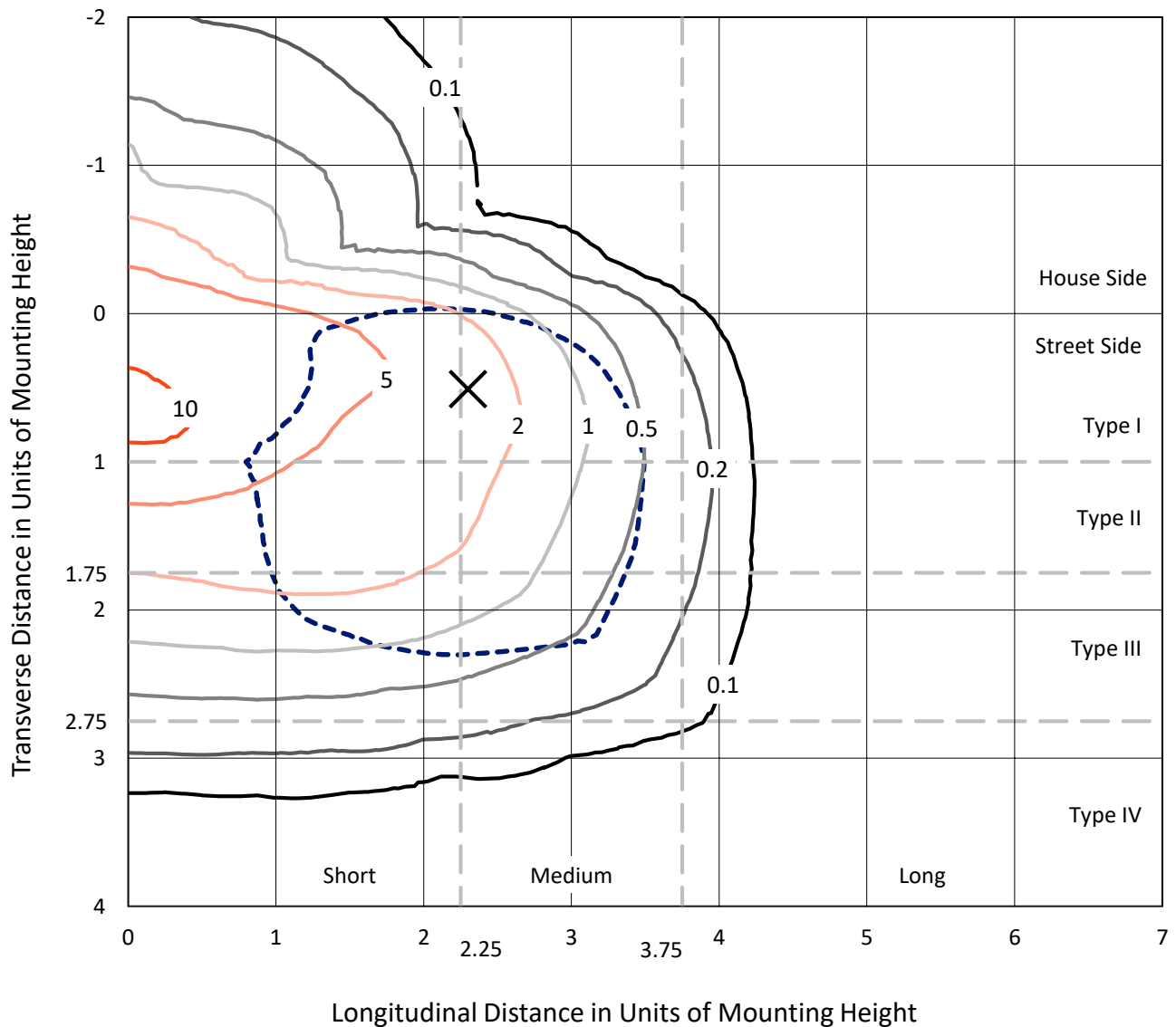


REPORT NUMBER: P199259

CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

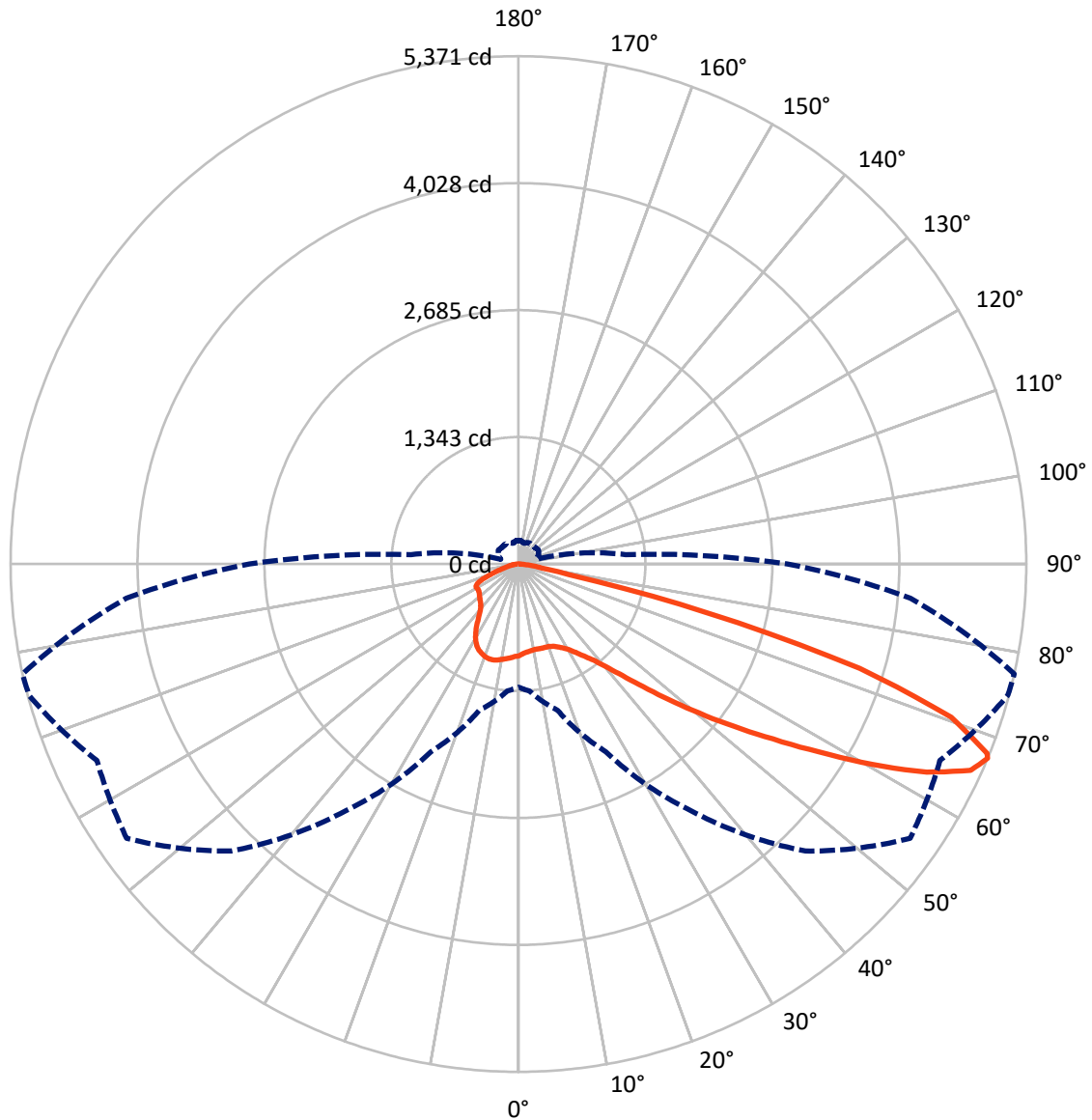


Based on 10 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Medium - Full Cutoff

REPORT NUMBER: P199259

CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1133.2	0.0	1133.2
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5460.8	0.0	5460.8
	% Fixture	82.8	0.0	82.8
Total	Lumens	6594.0	0.0	6594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.3
10°-20°	239.4	3.6
20°-30°	406.7	6.2
30°-40°	650.6	9.9
40°-50°	1001.7	15.2
50°-60°	1389.7	21.1
60°-70°	1853.8	28.1
70°-80°	882.2	13.4
80°-90°	83.5	1.3
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°	6594.0	100.0
0°-180°	6594.0	100.0

Coefficient of Utilization



REPORT NUMBER: P199259

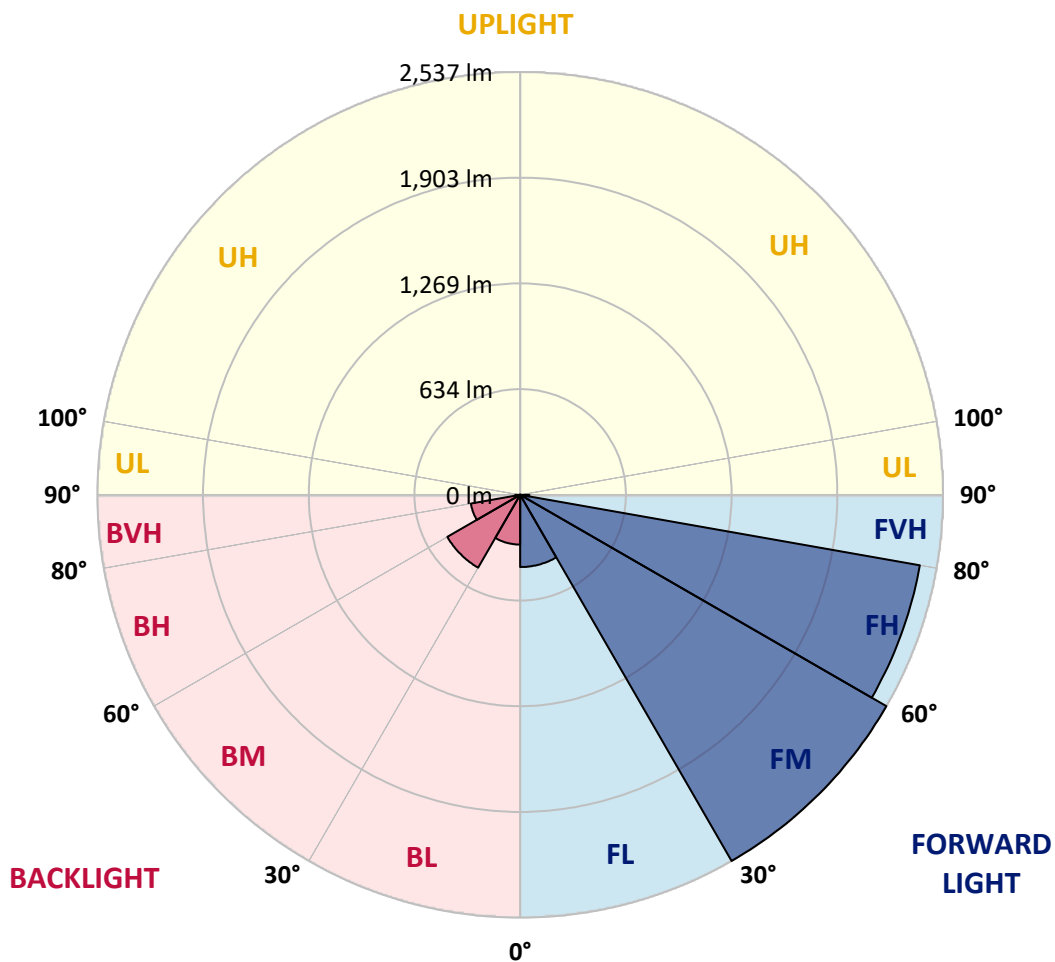
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.6	6.6			
FM	(30°-60°)	2537.4	38.5			
FH	(60°-80°)	2435.5	36.9			G2/5000
FVH	(80°-90°)	54.3	0.8			G1/100
BL	(0°-30°)	298.9	4.5	B1/500		
BM	(30°-60°)	504.6	7.7	B1/1000		
BH	(60°-80°)	300.5	4.6	B1/500		G1/500
BVH	(80°-90°)	29.3	0.4			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 III Medium





REPORT NUMBER: P199259

CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	870.2	874.3	874.7	886.5	891.8	905.2	919.9	933.0	944.4	948.5	955.8
5°	783.0	783.0	784.2	791.9	807.0	828.6	859.2	892.6	927.7	936.2	957.8
7.5°	737.3	738.1	739.0	746.7	758.5	777.7	808.2	853.9	912.2	926.4	964.3
10°	741.4	740.2	736.1	734.5	739.4	751.6	778.1	825.0	899.1	921.1	976.2
12.5°	805.4	802.9	789.5	769.9	752.0	747.5	765.9	810.3	893.0	921.1	996.1
15°	915.0	916.7	890.2	849.4	802.5	770.7	768.3	805.0	891.0	923.6	1019.4
17.5°	1057.7	1058.5	1021.8	962.7	884.9	819.2	785.0	805.0	891.0	926.0	1041.8
20°	1209.3	1203.6	1162.0	1087.8	986.8	886.5	815.6	809.9	893.4	929.7	1063.0
22.5°	1339.3	1334.0	1290.4	1212.6	1096.8	966.0	856.7	826.2	906.9	944.8	1092.7
25°	1453.0	1456.3	1413.9	1326.3	1206.5	1055.6	918.3	863.7	935.0	972.1	1129.4
27.5°	1591.2	1585.1	1536.2	1452.6	1319.4	1148.6	995.3	911.0	968.4	1005.1	1174.3
30°	1751.0	1748.1	1682.1	1596.1	1443.7	1252.5	1071.5	961.9	1012.0	1050.4	1230.5
32.5°	1945.0	1944.6	1873.7	1768.1	1583.5	1369.9	1161.6	1031.6	1075.6	1114.3	1305.1
35°	2164.7	2164.3	2090.9	1951.5	1744.5	1499.9	1267.6	1116.4	1154.3	1195.0	1393.9
37.5°	2317.1	2314.7	2276.4	2141.1	1922.6	1651.1	1400.1	1230.5	1243.5	1289.2	1501.1
40°	2346.5	2361.1	2394.2	2314.3	2117.0	1819.1	1532.9	1353.2	1365.4	1424.1	1636.1
42.5°	2314.7	2333.8	2443.5	2465.9	2311.4	2022.4	1699.2	1523.2	1538.6	1611.6	1794.6
45°	2287.0	2303.7	2441.0	2549.9	2503.4	2244.2	1906.7	1730.6	1760.0	1850.4	1975.6
47.5°	2239.7	2255.2	2392.9	2564.9	2613.0	2457.7	2156.5	1980.1	2030.6	2140.2	2181.8
50°	2237.2	2244.2	2327.3	2514.4	2650.9	2620.0	2433.3	2271.9	2349.3	2475.7	2410.1
52.5°	2175.3	2223.8	2299.2	2433.7	2651.8	2714.5	2706.0	2591.8	2711.3	2851.1	2660.3
55°	1796.2	1852.1	2205.5	2394.2	2646.9	2795.6	2955.0	2932.2	3118.9	3266.0	2940.7
57.5°	1677.2	1700.9	1934.8	2406.0	2687.6	2929.7	3204.0	3297.8	3585.1	3745.7	3277.0
60°	1644.6	1669.5	1880.6	2411.7	2798.1	3173.9	3541.9	3710.7	4133.3	4303.7	3658.9
62.5°	1608.3	1640.5	1884.7	2417.0	2992.1	3535.0	3990.3	4158.6	4696.2	4848.2	4016.8
65°	1502.4	1545.2	1809.3	2383.6	3204.4	3988.2	4582.9	4625.7	5161.3	5257.9	4232.8
67°	1301.4	1348.3	1602.2	2190.4	3184.9	4293.5	5056.9	4917.9	5358.9	5370.8	4162.7
67.5°	1237.8	1286.3	1532.1	2110.1	3129.0	4333.5	5140.9	4958.3	5357.3	5344.3	4097.5
70°	833.5	888.1	1085.0	1549.2	2509.9	4033.1	5120.5	4834.0	5006.0	4856.4	3520.3
72.5°	413.7	415.3	541.3	848.6	1520.7	2892.6	4271.5	4135.4	4057.9	3775.5	2583.3
75°	199.3	203.0	255.6	375.0	641.1	1493.4	2913.0	2790.3	2375.8	2057.1	1292.9
77.5°	152.0	155.7	198.5	244.1	267.4	487.1	1442.9	1166.1	688.4	549.8	364.4
80°	117.4	124.3	167.5	187.5	176.9	195.2	453.6	357.0	267.8	245.8	180.6
82.5°	91.7	95.8	142.2	142.2	122.3	130.8	211.1	206.2	166.3	150.0	97.0
85°	64.8	73.0	114.5	106.0	80.3	81.1	126.4	121.1	85.6	68.9	37.9
87.5°	28.9	37.1	81.5	69.3	42.8	33.0	51.8	44.4	33.8	26.1	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P199259

CATALOG NUMBER: XNV2-AF-02-LED-U-T3R-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5	970.5
2.5°	963.9	970.5	980.7	986.8	994.9	998.2	1001.4	1007.1	1011.6	1010.4	1008.4
5°	972.9	983.9	996.5	1000.6	1000.6	996.5	994.1	994.5	993.3	992.5	990.0
7.5°	986.0	1001.0	1010.0	1005.9	993.3	977.4	962.3	953.3	944.8	939.5	941.1
10°	1004.3	1021.0	1021.4	1003.5	973.3	938.7	908.9	889.8	871.4	863.3	865.7
12.5°	1030.8	1047.5	1033.2	994.5	941.5	887.3	832.7	793.2	757.7	749.1	746.7
15°	1059.3	1072.4	1040.6	975.4	895.9	806.6	714.9	655.8	616.3	609.3	606.9
17.5°	1084.2	1091.5	1036.9	941.1	823.7	683.1	576.3	536.4	528.2	532.3	532.3
20°	1106.2	1103.7	1021.0	888.1	710.0	546.2	484.2	483.8	494.8	505.0	505.8
22.5°	1133.9	1114.7	995.7	809.5	574.3	455.7	445.1	455.7	467.9	479.3	480.5
25°	1166.9	1127.0	961.9	697.4	461.8	413.7	418.2	427.2	434.9	443.9	444.3
27.5°	1199.9	1136.4	914.2	565.7	400.7	386.8	391.7	395.4	397.4	403.1	403.1
30°	1238.2	1143.7	845.3	453.2	372.5	363.2	360.3	358.7	360.3	368.1	368.5
32.5°	1286.3	1156.7	751.2	388.8	359.5	346.4	331.8	323.6	329.3	343.2	345.6
35°	1341.0	1172.2	638.3	363.2	355.0	338.3	311.4	298.8	300.8	313.4	315.5
37.5°	1409.4	1192.2	527.0	357.0	359.5	337.5	302.0	284.1	275.1	275.5	275.1
40°	1497.1	1212.2	439.0	358.7	369.3	339.5	297.5	269.4	250.7	251.5	253.1
42.5°	1588.8	1225.2	383.1	363.6	381.1	342.4	295.9	255.1	238.8	252.7	265.3
45°	1696.0	1221.5	354.2	368.1	390.1	343.6	289.8	253.5	240.1	281.6	305.3
47.5°	1819.1	1205.6	337.9	370.1	392.5	343.2	285.3	258.8	250.3	322.4	349.3
50°	1952.7	1180.8	324.8	366.8	391.3	341.6	290.2	265.3	254.3	331.4	352.2
52.5°	2099.1	1158.0	311.4	359.5	385.2	336.7	296.3	262.5	242.9	305.3	321.2
55°	2272.3	1152.7	296.3	346.9	375.0	331.4	293.1	253.5	230.3	270.6	280.4
57.5°	2470.4	1185.7	276.8	331.4	361.1	320.8	285.3	248.6	225.8	246.2	251.5
60°	2721.9	1258.6	256.0	315.1	344.0	304.9	278.4	249.9	227.0	242.5	243.7
62.5°	2918.3	1324.2	237.2	295.1	321.2	285.7	271.0	251.1	230.7	247.4	245.4
65°	2989.6	1292.0	214.0	265.3	289.0	264.5	260.9	251.9	230.7	250.3	245.8
67°	2843.3	1138.4	192.0	235.6	258.4	245.8	251.1	248.6	226.6	249.9	242.1
67.5°	2773.6	1084.2	186.3	230.7	250.3	240.1	248.6	247.0	225.4	249.0	240.1
70°	2287.4	777.7	157.3	193.6	209.5	211.5	233.5	236.4	215.6	234.0	217.7
72.5°	1627.5	486.7	135.7	150.0	169.1	181.0	213.2	222.1	202.6	203.4	189.9
75°	805.4	261.3	121.1	115.8	131.7	150.8	185.9	202.6	183.4	169.6	165.1
77.5°	271.9	148.0	102.3	93.3	102.3	121.1	154.1	176.9	161.8	143.5	140.6
80°	140.6	107.6	79.9	75.0	80.7	93.7	120.6	147.1	138.2	139.0	114.5
82.5°	87.6	65.6	57.5	57.1	61.1	71.7	88.9	119.4	118.6	101.5	73.8
85°	40.8	37.9	36.7	37.9	39.1	40.8	57.9	85.2	90.1	54.6	48.5
87.5°	17.1	16.7	14.7	15.9	17.5	17.1	23.2	36.3	50.5	34.2	31.4
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)