

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: P199275

Luminaire Tested: **XNV2-AF-02-LED-U-T4W-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199275
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-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 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: 6406 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

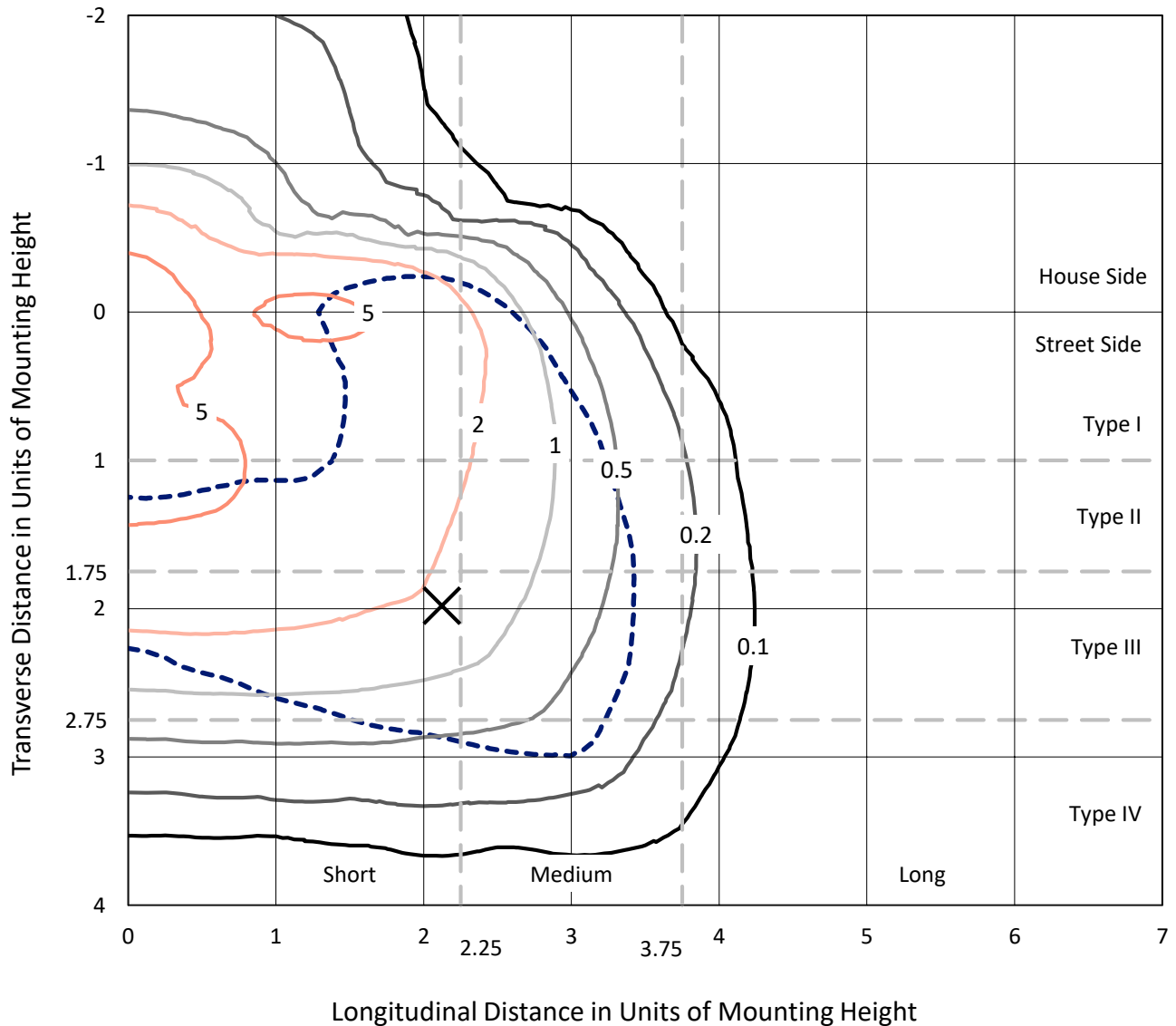
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P199275
 CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-8030-600

Iso-Footcandle Lines of Horizontal Illumination

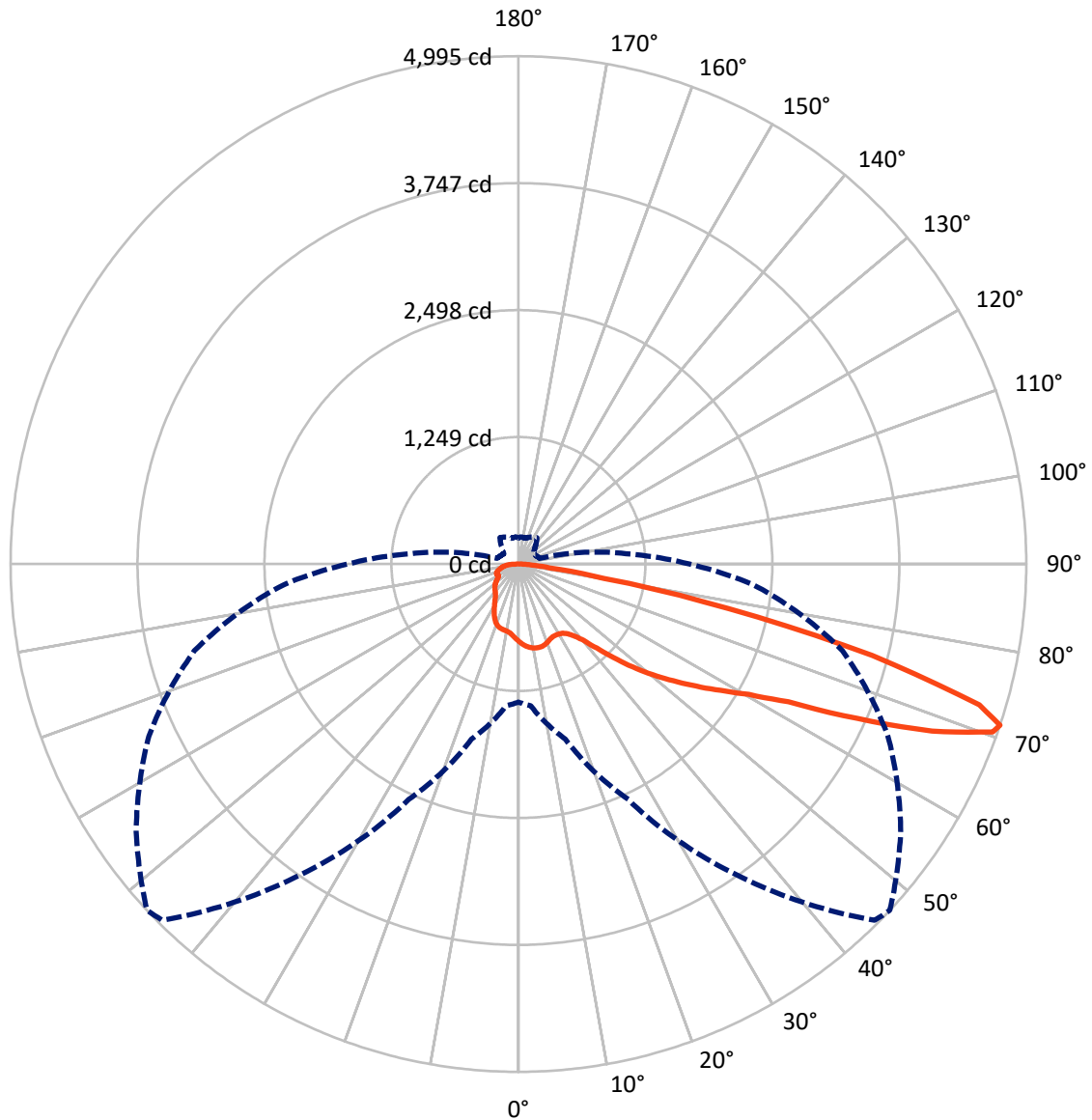
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P199275
CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-8030-600

Luminous Intensity Polar Plot



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



REPORT NUMBER: P199275

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.9	0.0	1372.9
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	5033.1	0.0	5033.1
	% Fixture	78.6	0.0	78.6
Total	Lumens	6406.0	0.0	6406.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	1.1
10°-20°	212.8	3.3
20°-30°	316.2	4.9
30°-40°	454.0	7.1
40°-50°	805.0	12.6
50°-60°	1377.4	21.5
60°-70°	1955.5	30.5
70°-80°	1071.0	16.7
80°-90°	141.4	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°	6406.0	100.0
0°-180°	6406.0	100.0



REPORT NUMBER: P199275

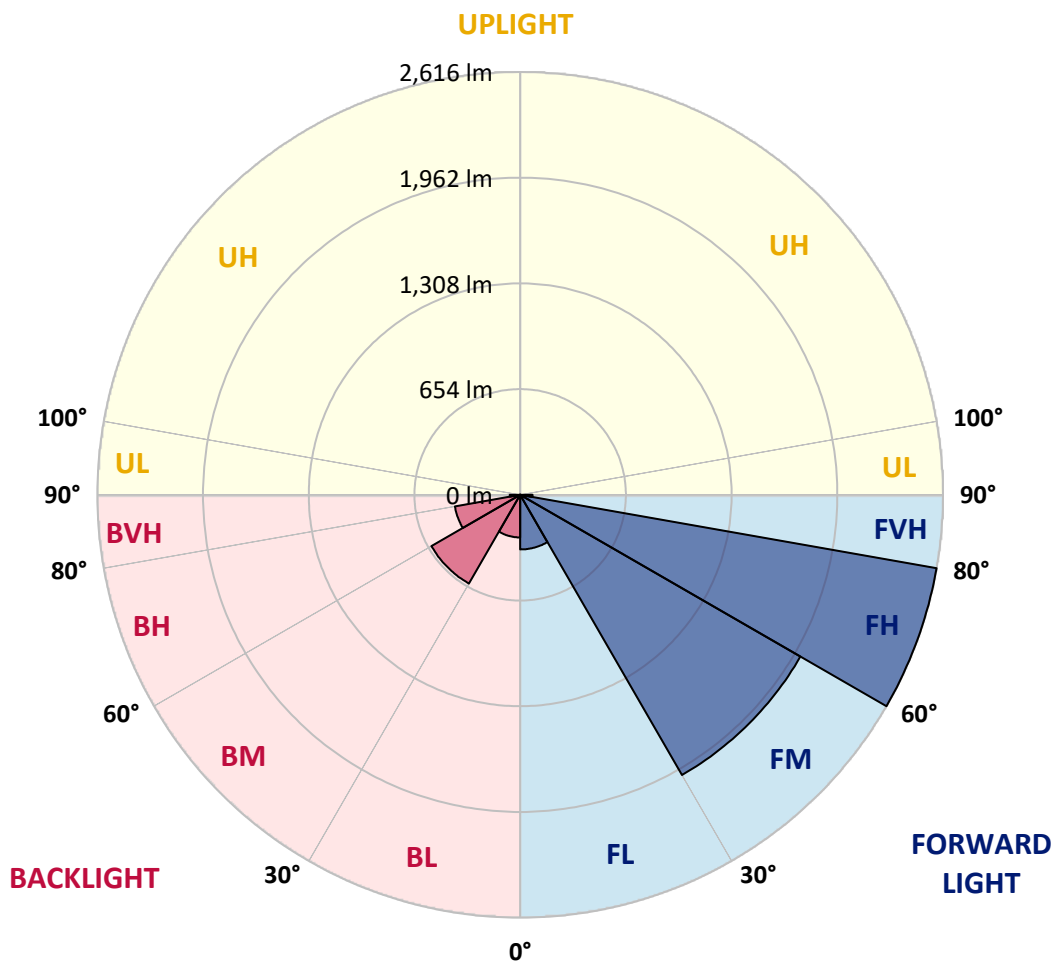
CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-8030-600

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	338.1	5.3			
FM	(30°-60°)	2002.1	31.3			
FH	(60°-80°)	2616.3	40.8			G2/5000
FVH	(80°-90°)	76.7	1.2			G1/100
BL	(0°-30°)	263.6	4.1	B1/500		
BM	(30°-60°)	634.4	9.9	B1/1000		
BH	(60°-80°)	410.2	6.4	B1/500		G1/500
BVH	(80°-90°)	64.7	1.0			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





REPORT NUMBER: P199275

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8
2.5°	808.3	806.6	807.4	804.5	797.5	790.0	790.0	782.1	773.8	765.5	756.4
5°	858.5	856.0	853.9	844.8	831.1	815.7	813.3	797.5	780.5	763.4	746.8
7.5°	900.4	897.9	891.7	875.1	855.2	832.4	829.4	808.7	786.3	762.6	739.4
10°	930.3	928.7	916.6	895.5	872.2	845.2	840.2	819.1	792.5	763.0	733.6
12.5°	946.9	944.4	929.9	905.0	877.6	850.2	845.2	824.9	794.6	762.2	727.7
15°	940.3	939.0	925.3	900.0	872.6	849.0	844.8	824.1	793.3	759.3	722.3
17.5°	912.1	915.0	904.2	879.3	856.8	840.2	835.7	816.2	787.1	752.2	714.0
20°	873.0	876.4	871.0	845.6	832.8	822.0	819.5	803.7	776.7	741.9	704.1
22.5°	831.5	834.4	834.8	811.2	807.0	802.9	800.8	789.6	767.6	735.6	697.4
25°	802.9	806.2	807.0	786.3	788.8	790.0	789.6	781.7	765.9	735.6	698.3
27.5°	795.4	797.1	796.2	777.1	781.7	788.8	789.2	787.5	772.6	743.9	709.9
30°	821.1	822.0	811.6	783.0	787.5	796.7	797.1	796.2	786.7	765.5	736.0
32.5°	932.4	931.6	895.9	822.0	806.2	809.5	810.8	818.2	819.1	801.2	773.8
35°	1101.8	1101.4	1059.9	933.6	859.3	841.9	843.6	855.2	865.6	853.5	837.8
37.5°	1288.2	1289.4	1264.1	1093.1	973.9	901.3	899.6	908.3	927.0	931.2	933.2
40°	1494.9	1501.1	1499.9	1276.1	1134.6	1002.6	986.0	976.0	1012.1	1034.9	1064.4
42.5°	1731.1	1729.5	1730.3	1477.1	1318.1	1162.0	1131.3	1084.8	1126.7	1166.1	1230.9
45°	1934.1	1940.8	1945.8	1690.9	1523.6	1344.2	1313.1	1228.4	1266.2	1325.1	1423.9
47.5°	2138.4	2126.8	2135.9	1928.7	1752.3	1552.2	1511.9	1397.8	1433.1	1516.1	1666.4
50°	2376.3	2370.9	2329.3	2239.3	2028.8	1763.1	1710.4	1574.6	1626.1	1736.9	1965.7
52.5°	2589.6	2560.6	2528.2	2483.4	2300.7	1976.5	1909.6	1758.5	1853.2	1990.6	2337.2
55°	2667.7	2648.2	2687.2	2745.3	2588.4	2194.0	2119.3	1973.2	2109.3	2280.8	2774.4
57.5°	2750.7	2757.4	2845.4	2962.8	2860.7	2426.1	2345.1	2227.2	2390.4	2605.4	3263.0
60°	2792.2	2818.8	2994.4	3214.8	3119.8	2680.6	2602.9	2519.1	2702.1	2964.1	3750.4
62.5°	2799.3	2835.0	3083.7	3303.3	3476.4	3070.4	2980.7	2889.8	3091.5	3360.6	4103.2
65°	2669.8	2724.6	3075.8	3412.0	3801.4	3721.7	3664.9	3506.3	3613.0	3709.7	4163.4
67.5°	2289.1	2348.9	2771.5	3367.2	4062.1	4397.6	4386.8	4152.6	4015.6	3844.6	3717.2
70°	1680.1	1728.2	2134.2	2878.6	3948.4	4928.1	4947.2	4571.5	4128.1	3558.2	2764.0
71°	1358.8	1400.3	1783.0	2555.6	3726.7	4955.5	4995.4	4590.2	4011.1	3299.5	2314.0
72.5°	845.6	868.9	1184.0	1928.7	3209.0	4673.2	4740.5	4351.1	3642.4	2788.9	1635.6
75°	319.2	328.4	439.2	850.6	1915.5	3510.8	3592.2	3288.3	2558.9	1592.1	684.6
77.5°	171.5	176.0	217.9	353.7	767.6	2012.6	2117.2	1875.6	1227.6	557.1	279.8
80°	115.0	117.9	150.7	209.6	352.9	766.3	853.5	753.1	459.6	318.0	199.3
82.5°	74.3	76.0	102.5	137.8	227.9	269.4	307.6	321.3	286.9	227.9	120.4
85°	49.0	50.2	67.7	88.0	141.1	132.8	136.2	178.1	195.5	150.3	61.4
87.5°	28.2	29.1	40.7	45.3	63.5	49.8	54.0	84.7	116.2	98.0	35.3
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: P199275

CATALOG NUMBER: XNV2-AF-02-LED-U-T4W-8030-600

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8	761.8
2.5°	752.2	748.9	741.4	736.9	734.8	734.0	733.1	734.8	734.8	734.0	732.3
5°	738.5	732.3	719.9	711.1	706.6	705.3	707.0	709.1	710.3	710.3	709.1
7.5°	728.6	719.4	702.8	690.8	683.7	681.7	686.2	693.7	698.7	701.2	701.6
10°	720.3	707.8	689.5	677.1	671.3	670.5	676.3	685.8	696.2	700.8	701.6
12.5°	712.8	698.7	678.8	667.1	663.0	665.1	672.9	681.7	693.7	700.3	700.8
15°	705.7	691.2	670.0	658.0	657.2	660.5	668.0	675.0	684.1	692.5	692.5
17.5°	697.4	681.7	659.7	648.4	648.4	651.4	656.3	660.1	665.9	673.8	673.4
20°	687.5	671.3	648.9	637.2	634.7	633.1	633.1	633.9	638.9	646.0	647.2
22.5°	680.0	663.4	639.7	625.6	614.4	603.6	599.0	597.4	602.0	608.6	610.3
25°	680.0	663.4	636.8	613.2	585.8	565.0	556.3	553.8	558.4	564.6	567.1
27.5°	691.2	674.6	643.5	602.0	551.7	518.5	508.1	506.1	510.2	515.2	517.7
30°	717.4	701.2	662.6	589.1	513.9	470.4	458.7	456.7	458.7	460.8	463.7
32.5°	761.0	747.3	693.7	577.5	475.7	426.8	412.6	409.3	410.2	410.6	413.1
35°	831.9	825.7	735.2	563.8	439.6	391.1	376.5	369.9	369.5	371.5	374.5
37.5°	940.7	944.4	788.8	543.8	409.7	365.7	351.2	344.6	341.2	345.4	348.7
40°	1094.3	1103.0	850.6	516.8	385.2	350.8	335.4	329.2	324.6	323.4	325.1
42.5°	1294.0	1291.5	913.7	482.4	358.7	340.8	324.6	318.0	310.5	301.0	298.9
45°	1530.6	1494.9	966.4	440.0	328.4	331.3	314.7	305.5	293.9	279.8	278.1
47.5°	1810.0	1711.6	998.8	394.8	300.1	318.8	303.5	289.4	272.3	263.2	262.0
50°	2146.7	1965.3	1021.7	348.7	274.8	303.1	287.7	269.0	252.4	249.9	249.5
52.5°	2545.2	2264.6	1049.9	307.2	254.9	282.7	271.9	252.8	239.5	240.8	240.8
55°	2969.1	2574.3	1050.7	274.4	237.5	259.0	260.3	244.9	234.6	238.7	240.0
57.5°	3355.6	2844.9	968.1	251.2	220.9	240.4	256.6	247.8	240.0	254.5	255.7
60°	3692.7	3053.3	790.4	232.1	207.2	233.3	264.9	265.7	264.0	303.5	306.4
62.5°	3816.0	3055.4	561.3	215.9	199.7	237.5	282.3	283.5	283.5	320.1	325.5
65°	3643.3	2800.9	373.6	206.3	194.7	246.6	296.4	291.0	278.1	303.5	297.7
67.5°	3034.7	2180.3	273.2	200.1	187.6	247.0	308.9	295.2	273.2	294.7	284.8
70°	2085.7	1387.4	228.7	194.3	179.3	236.2	315.5	293.9	265.7	274.8	261.5
71°	1678.8	1107.2	217.1	192.2	176.0	230.0	316.3	292.3	262.0	267.8	255.7
72.5°	1105.9	682.1	203.0	187.6	171.0	219.2	314.3	288.5	257.0	257.4	249.5
75°	436.3	282.7	182.7	177.3	156.9	201.8	305.1	280.6	247.4	239.1	235.8
77.5°	220.4	184.7	160.7	162.7	140.3	183.9	292.3	267.8	234.1	222.9	220.4
80°	161.1	140.3	137.4	141.1	121.6	166.5	276.1	250.3	217.1	228.7	223.8
82.5°	98.0	85.5	107.5	116.7	101.7	148.6	257.0	230.0	195.5	180.2	174.4
85°	46.5	50.2	77.6	85.9	75.1	118.7	235.0	207.6	170.6	147.4	149.9
87.5°	22.8	27.8	44.4	51.5	49.4	87.2	177.3	161.1	134.5	110.8	108.4
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)