

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: P271346

Luminaire Tested: **XNV2-AF-02-LED-U-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
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-T3-7027-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6905.7 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

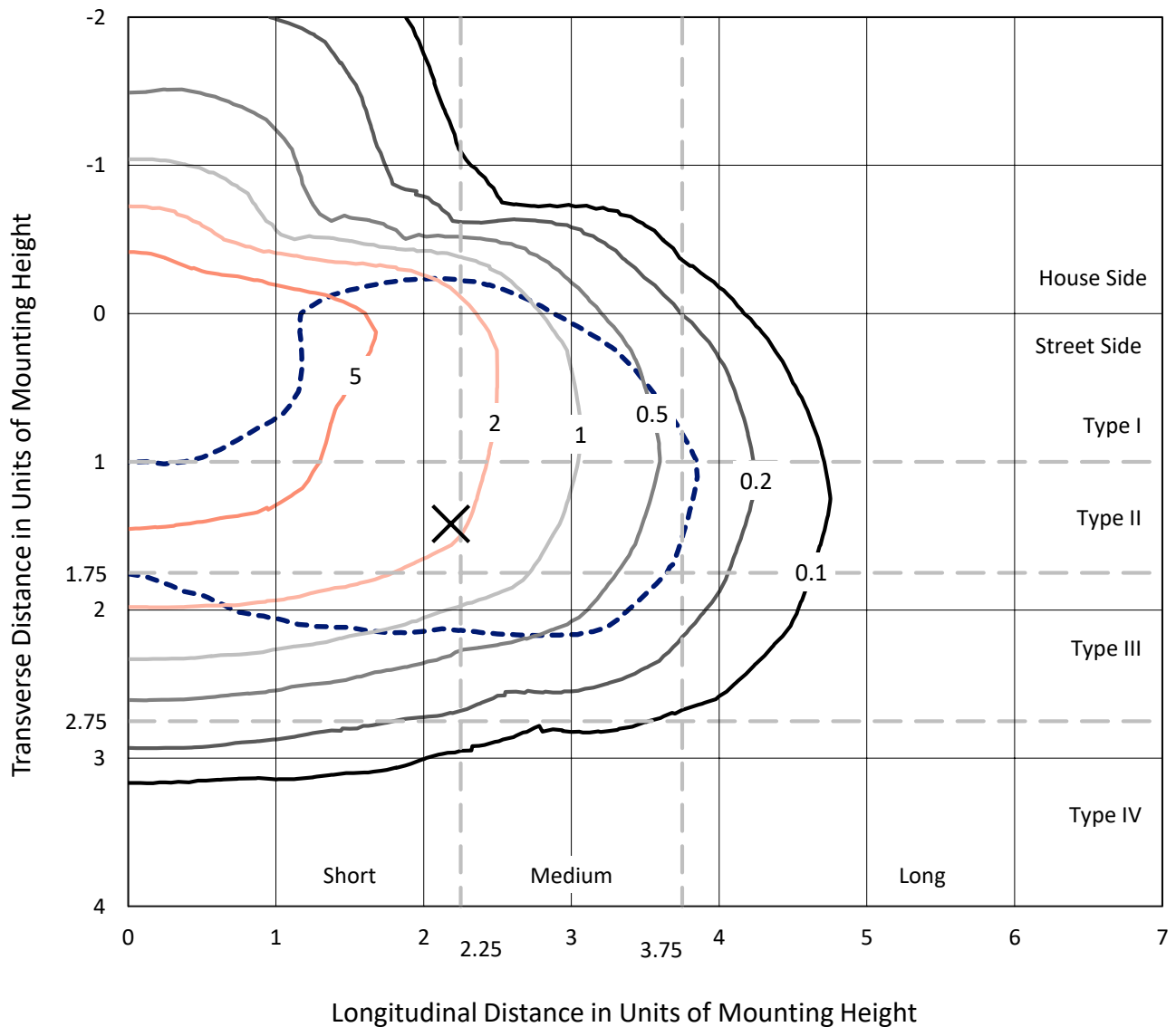
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

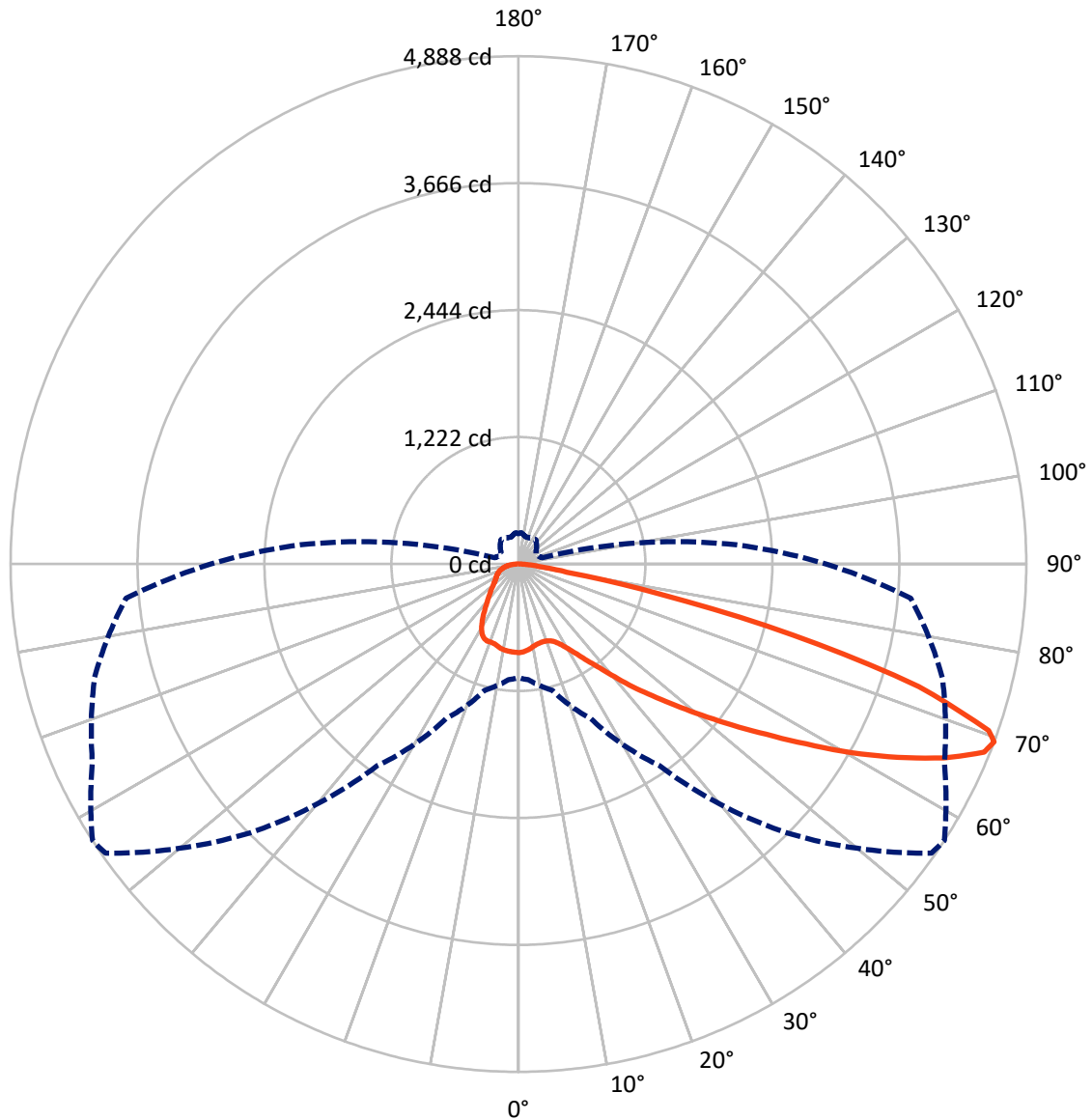
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1523.8	0.0	1523.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	5381.9	0.0	5381.9
	% Fixture	77.9	0.0	77.9
Total	Lumens	6905.7	0.0	6905.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	1.2
10°-20°	227.1	3.3
20°-30°	377.8	5.5
30°-40°	617.0	8.9
40°-50°	1041.3	15.1
50°-60°	1619.8	23.5
60°-70°	1929.5	27.9
70°-80°	898.9	13.0
80°-90°	114.3	1.7
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°	6905.7	100.0
0°-180°	6905.7	100.0

Coefficient of Utilization



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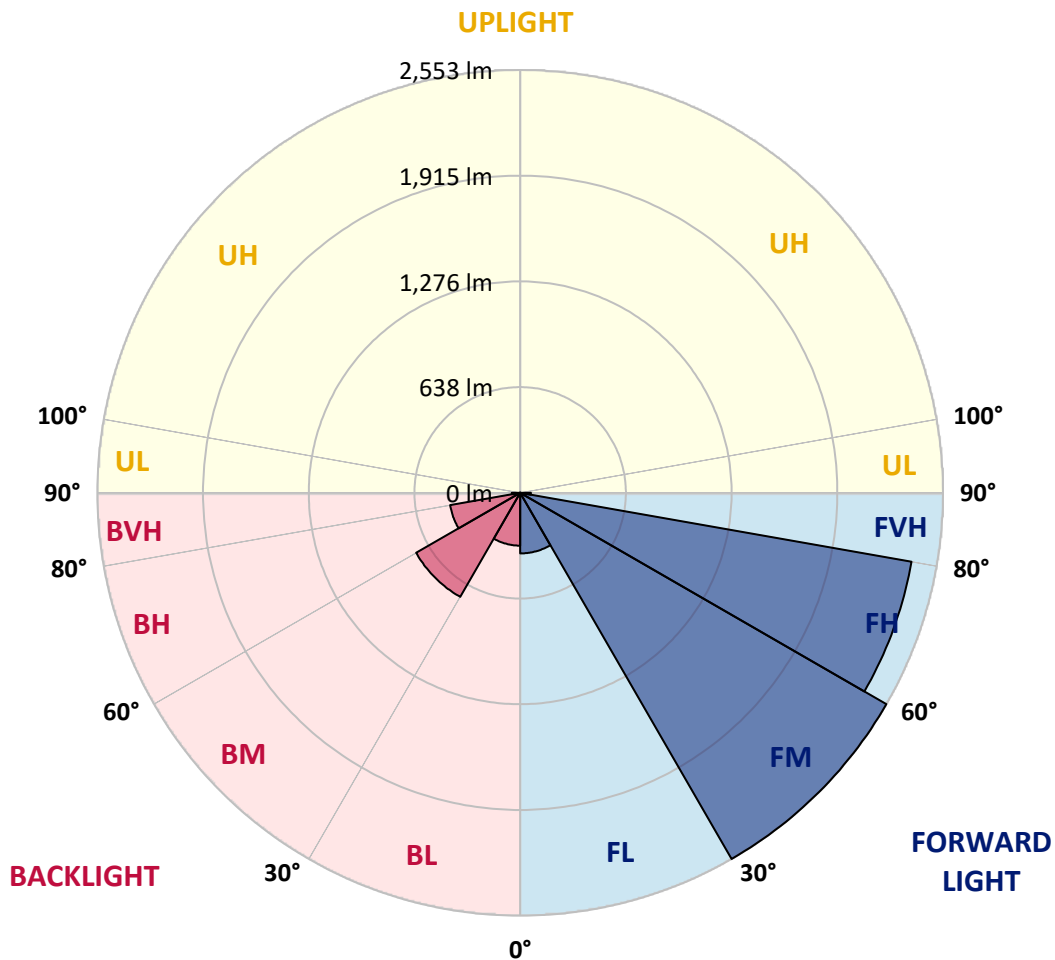
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	365.7	5.3			
FM	(30°-60°)	2552.8	37.0			
FH	(60°-80°)	2399.1	34.7			G2/5000
FVH	(80°-90°)	64.3	0.9			G1/100
BL	(0°-30°)	319.1	4.6	B1/500		
BM	(30°-60°)	725.3	10.5	B1/1000		
BH	(60°-80°)	429.4	6.2	B1/500		G1/500
BVH	(80°-90°)	50.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3
2.5°	848.4	848.4	850.7	850.7	850.7	849.7	847.1	848.0	846.3	844.9	842.7
5°	831.1	832.0	834.6	835.6	837.0	837.4	837.4	837.0	837.4	837.4	836.1
7.5°	807.2	808.1	811.3	813.1	817.0	820.5	822.3	822.3	824.6	826.4	826.7
10°	792.8	792.8	794.6	794.6	797.5	799.3	805.2	804.6	810.8	816.6	819.3
12.5°	791.0	791.0	790.1	786.9	785.2	784.7	790.5	791.3	800.7	810.8	815.8
15°	796.6	796.6	794.0	787.9	781.2	778.1	783.9	785.6	795.8	807.8	815.2
17.5°	815.2	814.9	809.1	796.6	785.2	780.3	782.1	783.9	793.2	806.9	816.1
20°	856.4	856.4	844.0	821.4	801.6	790.1	787.4	788.7	795.4	808.1	820.2
22.5°	928.4	929.7	907.6	870.5	836.4	812.2	801.6	802.8	806.0	818.4	831.7
25°	1034.6	1031.0	999.6	947.1	894.0	852.4	830.8	832.0	832.0	843.6	857.3
27.5°	1146.9	1147.8	1102.6	1046.0	976.2	914.2	879.8	879.4	878.9	890.0	904.6
30°	1273.6	1274.2	1222.0	1156.6	1076.4	997.4	945.6	945.2	941.2	955.0	973.9
32.5°	1412.6	1412.0	1351.5	1277.7	1188.8	1099.0	1031.9	1031.4	1028.3	1047.0	1069.9
35°	1566.4	1566.4	1506.3	1415.2	1319.3	1219.3	1141.6	1141.0	1142.9	1168.1	1189.7
37.5°	1751.7	1755.6	1683.2	1572.6	1467.8	1361.2	1270.7	1268.0	1254.8	1297.2	1332.9
40°	1944.8	1955.9	1880.7	1751.7	1638.5	1528.3	1428.5	1426.7	1415.2	1460.3	1518.1
42.5°	2154.0	2179.2	2095.6	1963.9	1840.4	1721.5	1621.3	1616.3	1572.2	1642.5	1733.1
45°	2428.1	2444.4	2323.2	2203.9	2087.7	1951.8	1832.5	1806.4	1762.2	1852.5	1970.1
47.5°	2614.6	2606.6	2531.1	2451.0	2376.3	2246.3	2062.9	2029.7	1975.8	2095.1	2224.7
50°	2730.5	2736.1	2693.7	2689.7	2685.8	2595.2	2322.8	2283.0	2220.7	2362.2	2513.4
52.5°	2806.9	2780.9	2788.3	2878.6	2987.8	2944.5	2616.9	2572.7	2508.4	2650.0	2820.7
55°	2775.1	2740.5	2810.1	2987.8	3244.6	3254.4	2939.6	2894.0	2839.3	2956.0	3190.2
57.5°	2643.4	2660.6	2770.3	3017.3	3420.1	3532.0	3310.6	3264.1	3156.3	3274.7	3541.3
60°	2458.1	2493.1	2660.6	2970.5	3543.1	3748.2	3717.6	3686.7	3501.1	3585.0	3910.1
62.5°	2259.1	2293.6	2499.7	2890.4	3487.8	3939.6	4117.3	4098.3	3881.7	3883.9	4143.9
65°	1965.1	1979.3	2189.8	2672.1	3334.4	4112.5	4517.4	4500.7	4245.6	4139.0	4209.3
67.5°	1484.2	1501.8	1674.7	2109.3	2867.5	4018.7	4837.2	4834.5	4464.3	4233.6	4053.7
69°	1096.0	1117.6	1258.6	1637.6	2371.0	3661.5	4852.1	4887.9	4523.7	4223.9	3790.6
70°	801.9	826.7	957.1	1299.8	1975.0	3267.1	4723.5	4800.5	4501.0	4162.4	3585.4
72.5°	340.8	349.4	413.4	586.7	1001.8	1970.1	3868.9	4030.6	4065.2	3729.7	2801.2
75°	213.5	216.2	241.4	301.1	445.6	814.9	2505.5	2726.0	3035.1	2893.6	1875.4
77.5°	160.9	163.1	177.8	207.4	276.8	304.2	1162.2	1386.1	1738.4	1702.1	933.2
80°	123.3	124.7	134.3	150.7	194.9	190.5	377.1	473.9	725.6	640.2	330.2
82.5°	96.7	97.2	105.7	108.8	136.2	128.2	189.3	210.9	293.0	243.6	161.3
85°	85.8	87.0	95.5	79.6	87.0	77.3	103.9	112.7	155.6	146.8	61.1
87.5°	43.7	46.0	79.9	68.1	43.7	36.7	45.5	49.0	63.2	68.5	29.6
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°	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3	853.3
2.5°	843.1	843.6	844.9	847.1	850.7	855.0	860.3	865.6	868.8	870.9	870.1
5°	836.1	836.4	839.1	843.1	847.6	854.2	863.0	869.6	874.5	877.6	877.1
7.5°	827.2	828.4	833.7	838.3	844.4	849.7	856.9	863.0	867.9	870.9	870.5
10°	820.5	821.9	828.4	834.3	839.6	840.5	839.1	837.4	837.0	839.1	838.3
12.5°	817.5	820.2	826.4	830.3	828.1	819.7	809.9	806.0	804.6	809.1	809.6
15°	818.4	820.5	825.8	823.1	811.3	797.2	791.9	794.9	797.5	800.2	800.7
17.5°	820.5	821.9	823.1	813.4	796.6	787.4	785.6	782.6	774.6	770.1	769.7
20°	824.6	826.4	824.0	808.7	793.7	781.2	760.0	741.0	722.9	713.2	709.1
22.5°	838.3	839.6	832.9	817.8	794.9	754.7	711.7	679.1	651.2	636.2	630.4
25°	865.2	867.5	858.2	839.1	779.0	708.8	648.1	603.9	568.9	550.9	546.0
27.5°	912.5	914.7	904.6	855.0	741.9	647.3	573.8	530.1	500.0	484.5	482.3
30°	983.3	986.3	977.0	854.6	685.2	568.9	501.3	475.7	458.5	447.9	447.4
32.5°	1081.4	1092.9	1054.9	839.6	615.3	489.8	446.5	437.7	429.3	422.3	422.3
35°	1206.1	1233.1	1131.8	808.1	538.4	435.9	416.1	407.7	397.1	389.4	388.5
37.5°	1355.1	1397.0	1186.7	752.5	472.1	409.8	397.5	383.8	367.0	352.3	348.8
40°	1559.7	1569.5	1213.6	661.8	422.7	395.8	380.3	362.9	341.7	325.4	323.6
42.5°	1765.3	1733.5	1208.3	564.6	394.4	382.9	362.6	343.5	324.5	310.9	310.9
45°	1999.2	1876.7	1168.1	466.8	368.8	368.2	346.1	328.1	313.5	303.3	301.1
47.5°	2222.9	2005.3	1098.6	394.9	342.2	353.8	335.5	321.0	307.7	298.0	296.3
50°	2494.4	2154.3	1024.7	344.4	316.6	340.8	331.1	323.6	310.9	293.9	292.2
52.5°	2764.1	2328.5	967.7	306.4	293.9	330.7	333.8	334.7	322.8	290.1	287.7
55°	3053.7	2514.7	907.6	276.8	275.4	325.8	340.0	339.1	333.4	291.0	287.4
57.5°	3329.1	2701.7	817.8	255.9	260.9	321.0	341.3	327.2	317.0	295.4	289.6
60°	3557.2	2856.5	686.1	241.4	248.6	311.3	332.5	311.3	293.9	294.5	289.2
62.5°	3668.1	2899.8	524.8	224.5	238.3	295.4	319.6	299.3	283.3	296.3	293.0
65°	3583.7	2776.4	374.1	209.1	226.0	276.8	312.2	289.2	278.0	305.1	301.6
67.5°	3280.4	2440.4	271.5	195.4	213.9	257.8	298.0	279.8	272.7	311.7	303.7
69°	2958.2	2107.1	235.1	187.4	205.6	247.7	288.6	275.1	268.9	302.4	291.0
70°	2690.2	1850.1	217.1	182.5	198.5	241.9	281.6	271.8	264.8	291.3	277.7
72.5°	1928.9	1196.0	182.5	168.1	179.9	229.0	266.2	260.4	249.8	263.1	254.2
75°	1165.5	624.2	155.1	153.0	160.4	211.3	248.0	240.9	230.3	231.7	227.2
77.5°	535.4	288.3	130.0	135.3	140.1	189.3	226.0	218.0	208.2	204.8	205.2
80°	234.7	168.4	108.8	115.4	118.0	170.1	202.1	193.1	182.5	201.6	186.9
82.5°	126.9	97.6	84.9	89.3	96.7	148.1	175.4	164.0	153.9	179.0	144.5
85°	51.4	49.9	57.5	62.0	67.3	106.5	146.8	134.8	122.4	109.7	107.0
87.5°	22.1	23.9	28.2	30.1	35.8	66.4	98.6	86.1	86.6	74.3	72.9
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)