

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: P198563

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198563
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24285)
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-SL4-7030-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5730 lumens
Efficiency: N/A
Efficacy: 86.8 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

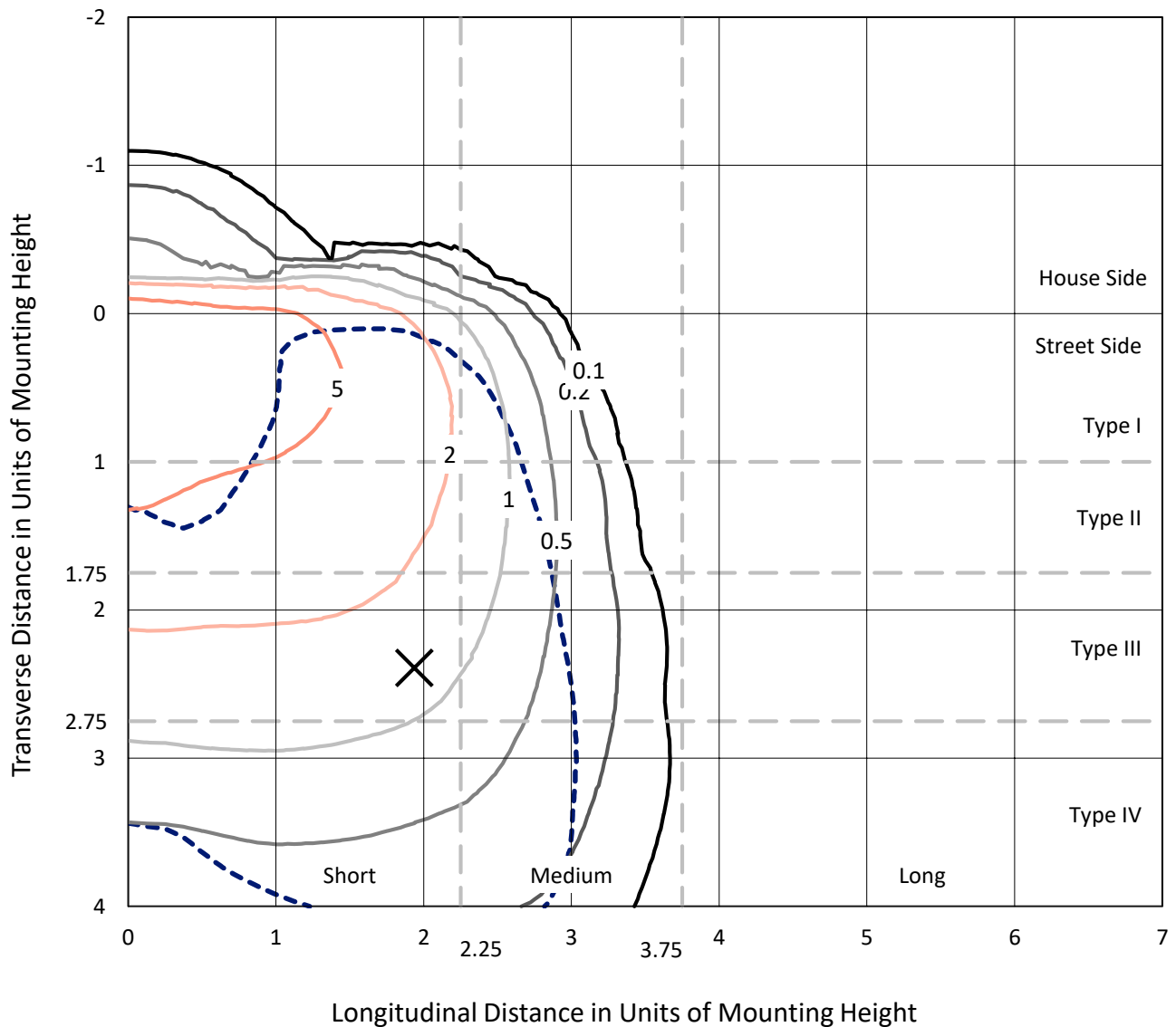


REPORT NUMBER: P198563

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

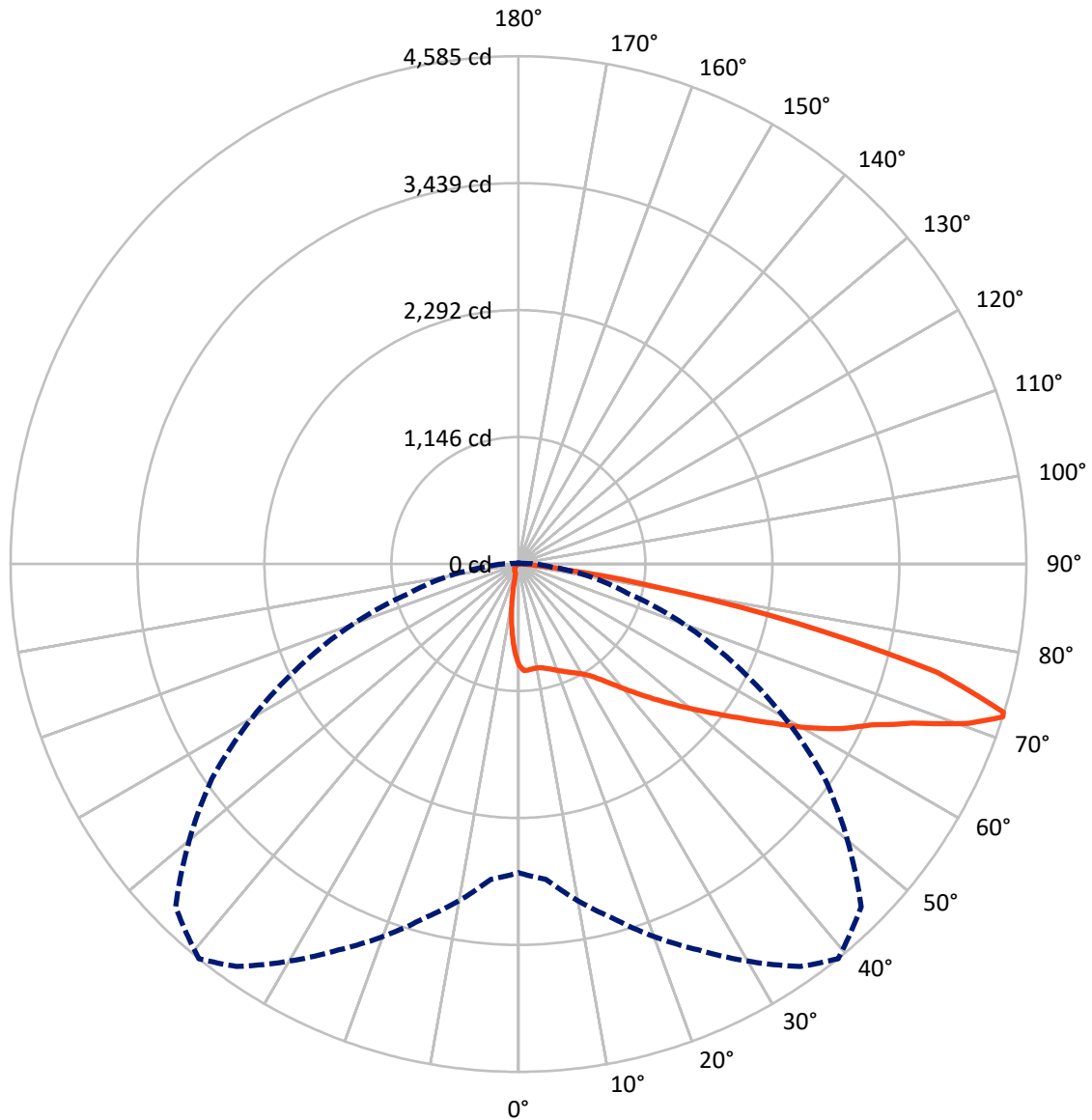


Based on 10 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P198563

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P198563

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	375.5	0.0	375.5
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	5354.5	0.0	5354.5
	% Fixture	93.4	0.0	93.4
Total	Lumens	5730.0	0.0	5730.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.3
10°-20°	180.6	3.2
20°-30°	299.9	5.2
30°-40°	478.0	8.3
40°-50°	789.1	13.8
50°-60°	1191.6	20.8
60°-70°	1552.3	27.1
70°-80°	1048.9	18.3
80°-90°	114.9	2.0
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°	5730.0	100.0
0°-180°	5730.0	100.0

Coefficient of Utilization



REPORT NUMBER: P198563

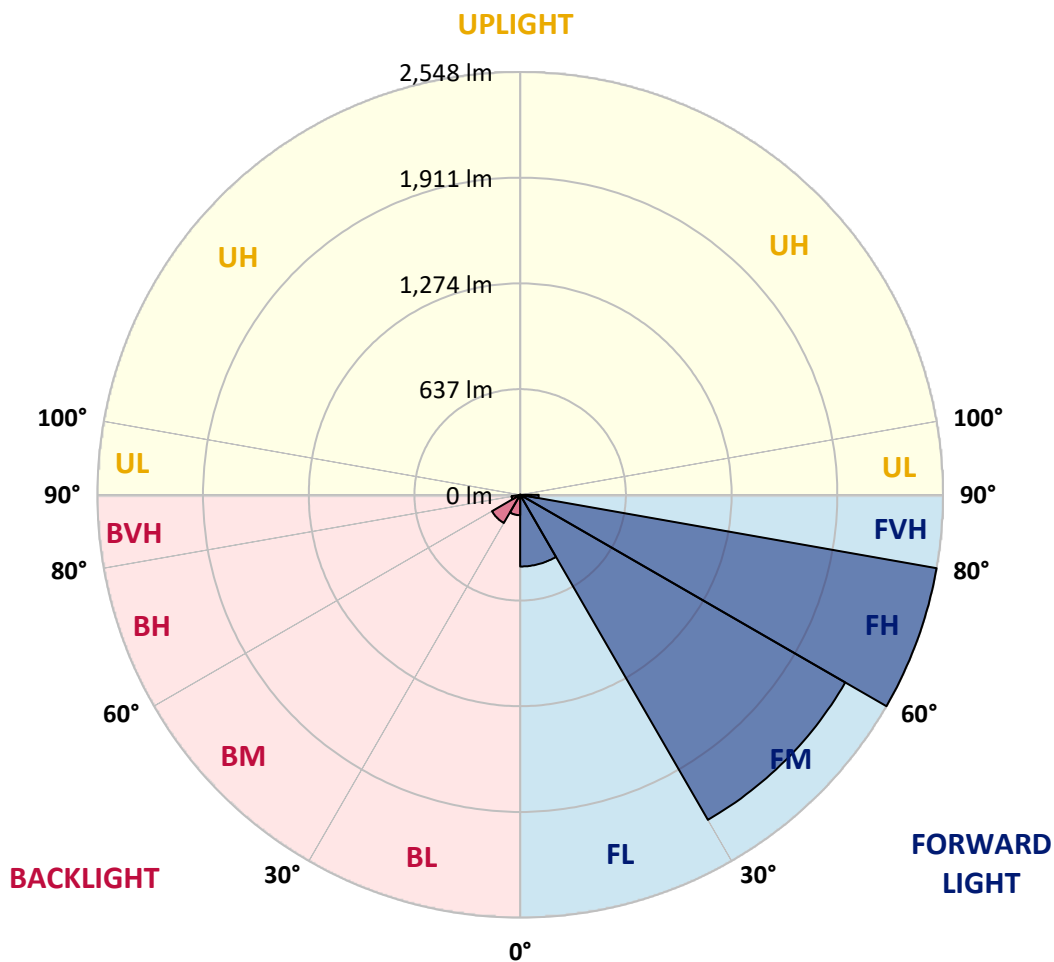
CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.2	7.5			
FM (30°-60°)	2262.3	39.5			
FH (60°-80°)	2548.4	44.5			G2/5000
FVH (80°-90°)	111.6	1.9			G2/225
BL (0°-30°)	123.0	2.1	B1/500		
BM (30°-60°)	196.5	3.4	B0/220		
BH (60°-80°)	52.8	0.9	B0/110		G0/110
BVH (80°-90°)	3.3	0.1			G0/10
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: P198563

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1
2.5°	976.6	978.4	976.1	972.1	966.2	962.6	957.7	946.9	933.3	921.6	908.1
5°	984.2	985.1	982.4	974.8	965.8	960.8	954.5	942.8	928.8	912.6	888.3
7.5°	986.5	986.0	982.9	973.4	959.5	953.2	942.3	927.9	913.5	898.7	871.2
10°	985.6	985.6	983.3	974.3	958.6	952.7	940.5	925.2	907.2	892.3	863.1
12.5°	982.4	984.2	982.9	977.9	966.2	961.7	950.9	935.6	918.5	903.2	872.1
15°	986.5	989.2	991.9	990.1	983.3	979.3	969.4	953.6	939.6	923.4	890.1
17.5°	1002.7	1008.6	1014.9	1015.3	1008.1	1000.9	989.6	973.4	959.9	945.1	909.0
20°	1033.3	1037.8	1049.6	1051.8	1037.4	1027.0	1011.3	992.3	978.8	966.2	926.6
22.5°	1078.8	1083.8	1093.3	1090.1	1065.8	1053.6	1033.8	1012.2	998.2	991.0	946.9
25°	1147.8	1149.1	1151.4	1137.4	1097.3	1083.8	1059.5	1035.1	1023.9	1023.0	975.7
27.5°	1228.8	1230.6	1220.7	1189.6	1132.4	1114.9	1087.4	1065.3	1059.9	1066.7	1012.2
30°	1321.6	1322.1	1294.6	1244.2	1173.0	1153.6	1125.2	1100.9	1105.9	1122.5	1059.0
32.5°	1416.7	1412.2	1374.3	1308.6	1228.4	1205.0	1180.6	1156.3	1170.7	1204.5	1127.5
35°	1503.6	1501.8	1457.2	1380.6	1300.5	1279.7	1262.2	1236.5	1259.9	1314.9	1220.7
37.5°	1590.6	1589.2	1538.3	1458.6	1389.2	1374.3	1361.3	1341.5	1379.7	1460.4	1345.5
40°	1686.5	1684.2	1621.6	1545.1	1492.4	1484.2	1476.6	1468.0	1533.3	1645.5	1500.9
42.5°	1805.0	1795.1	1709.9	1639.2	1605.9	1608.1	1608.6	1617.1	1719.4	1865.8	1684.2
45°	1941.0	1918.9	1798.7	1740.1	1730.6	1744.2	1757.7	1793.3	1936.0	2119.4	1887.0
47.5°	2073.0	2037.4	1900.9	1848.7	1868.0	1896.0	1928.4	1997.8	2179.3	2384.7	2070.7
50°	2186.5	2150.0	2002.3	1959.0	2020.7	2062.2	2119.8	2224.8	2436.1	2609.0	2186.5
52.5°	2275.7	2246.9	2109.5	2080.6	2190.1	2246.9	2337.4	2475.2	2678.4	2756.8	2267.6
55°	2341.5	2327.0	2212.2	2216.2	2378.4	2460.4	2573.0	2728.8	2882.9	2871.6	2328.4
57.5°	2415.8	2404.5	2319.8	2376.1	2605.0	2710.8	2841.0	2966.2	3031.6	2964.0	2387.9
60°	2491.9	2495.5	2450.5	2569.8	2885.2	3002.3	3115.8	3146.9	3159.0	3057.7	2450.5
62.5°	2549.6	2564.9	2568.9	2778.8	3172.5	3272.5	3321.6	3299.6	3296.9	3183.4	2445.5
65°	2615.8	2655.9	2722.5	3008.1	3433.8	3499.6	3534.7	3566.7	3499.1	3220.7	2205.0
67.5°	2730.2	2793.3	2943.3	3289.2	3735.6	3832.9	3932.5	3898.7	3529.3	2841.0	1679.7
70°	2884.3	2961.3	3226.1	3656.3	4145.1	4308.1	4391.5	3872.1	2996.4	1963.1	886.0
72°	2787.0	2856.8	3313.5	3843.7	4435.2	4584.7	4376.2	3377.5	2172.1	1017.6	296.8
72.5°	2692.4	2764.4	3285.6	3841.5	4464.0	4578.4	4276.6	3182.5	1922.1	791.9	204.5
75°	1868.0	1959.0	2816.7	3453.2	4031.1	3905.4	3272.1	1927.0	696.4	136.0	67.6
77.5°	965.8	1036.0	1708.6	2440.1	2809.5	2573.0	1933.8	836.0	192.8	72.1	44.6
80°	598.7	633.3	799.1	1202.3	1459.5	1276.6	853.2	337.8	123.4	42.8	35.6
82.5°	309.9	336.5	503.2	485.1	539.2	448.2	314.9	282.9	76.1	26.6	36.5
85°	101.8	108.1	309.0	322.5	230.6	155.0	139.6	269.8	22.1	17.1	31.1
87.5°	13.5	15.8	108.6	184.7	113.5	70.3	83.8	95.0	7.7	9.5	8.6
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: P198563

CATALOG NUMBER: XNV2-AF-02-LED-U-SL4-7030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1	917.1
2.5°	899.1	893.2	874.8	856.3	835.1	815.8	800.5	790.5	795.1	780.2	782.4
5°	873.4	858.6	818.0	774.3	727.0	682.9	647.8	621.6	616.7	594.1	595.0
7.5°	848.7	824.3	758.6	686.5	608.1	544.6	486.9	436.5	418.5	400.0	389.2
10°	835.1	801.8	708.6	603.6	493.2	400.0	318.9	255.4	228.8	209.5	200.0
12.5°	839.2	795.1	671.2	528.4	383.3	264.9	180.2	133.8	117.6	108.6	105.4
15°	852.7	796.4	637.4	455.0	278.8	160.4	105.9	90.5	89.2	88.7	88.3
17.5°	865.3	797.8	601.8	378.4	186.5	102.3	85.1	83.8	83.8	83.8	83.8
20°	878.4	798.2	562.6	298.2	122.5	83.8	80.2	79.3	80.2	80.2	80.2
22.5°	893.7	801.4	524.8	220.3	90.5	78.8	76.6	76.1	76.6	76.6	76.1
25°	912.6	808.1	483.8	157.7	82.0	75.7	73.4	73.0	73.4	73.0	73.0
27.5°	937.8	817.1	436.0	113.1	78.4	72.5	70.3	70.3	70.3	69.8	69.8
30°	970.3	827.9	372.1	89.2	74.8	69.4	67.6	67.6	67.1	66.7	66.7
32.5°	1016.7	845.5	302.3	80.6	70.7	65.3	63.5	64.0	63.5	63.1	62.6
35°	1082.4	873.0	233.3	76.1	66.7	61.3	59.5	59.5	59.5	58.6	58.6
37.5°	1175.7	914.9	174.8	71.6	62.6	57.2	55.0	55.0	54.5	53.6	54.1
40°	1291.0	967.6	126.6	67.6	58.6	52.7	50.9	50.0	49.1	48.2	48.2
42.5°	1429.7	1018.9	95.0	63.5	54.5	49.1	46.8	45.9	44.1	43.2	42.8
45°	1585.1	1073.4	78.8	58.6	50.0	45.0	43.2	41.4	39.2	37.8	37.4
47.5°	1716.2	1106.8	70.3	53.6	45.5	41.0	39.2	36.5	33.8	32.9	32.9
50°	1795.1	1092.8	63.1	48.6	41.0	36.9	34.7	31.1	29.3	28.4	27.9
52.5°	1839.2	1051.4	57.2	44.6	36.9	32.4	29.3	26.1	25.2	24.3	24.3
55°	1869.4	991.4	50.9	40.5	33.3	28.4	24.8	22.5	21.6	21.2	20.7
57.5°	1898.2	918.5	45.0	36.9	29.7	25.2	21.2	20.3	18.5	18.0	18.0
60°	1906.8	818.0	39.6	32.9	26.6	22.1	18.5	17.1	15.3	14.9	14.9
62.5°	1797.8	650.9	35.1	27.9	23.4	18.9	16.2	14.4	12.6	12.6	12.6
65°	1502.3	441.9	30.2	24.3	20.7	16.2	14.0	11.7	10.8	10.8	10.8
67.5°	1046.4	246.4	25.7	20.7	17.6	13.5	11.7	9.9	9.5	9.9	9.9
70°	471.6	97.7	21.6	17.1	14.4	11.3	9.9	8.6	9.5	9.5	9.5
72°	141.4	52.3	18.0	14.0	11.7	9.9	8.6	8.1	9.0	9.5	9.5
72.5°	105.0	46.8	17.1	13.5	11.7	9.5	8.1	8.1	9.0	9.5	9.5
75°	54.1	32.0	13.1	9.9	8.6	7.7	6.8	7.7	9.0	9.0	9.0
77.5°	42.3	26.1	10.8	7.7	7.2	6.8	6.3	7.2	8.1	8.1	8.1
80°	39.6	17.1	8.6	7.2	6.3	5.9	5.9	6.3	7.2	7.7	7.7
82.5°	40.1	14.0	7.7	6.8	5.9	5.4	5.4	5.9	6.8	7.2	7.2
85°	25.7	9.5	6.8	5.9	5.4	5.0	5.0	5.4	6.3	6.8	6.8
87.5°	8.6	7.2	5.9	5.4	4.5	4.5	4.5	4.5	5.4	5.9	6.3
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)