

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: P199211

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24284)
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-SL4-8030-600
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6184 lumens
Efficiency: N/A
Efficacy: 93.7 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

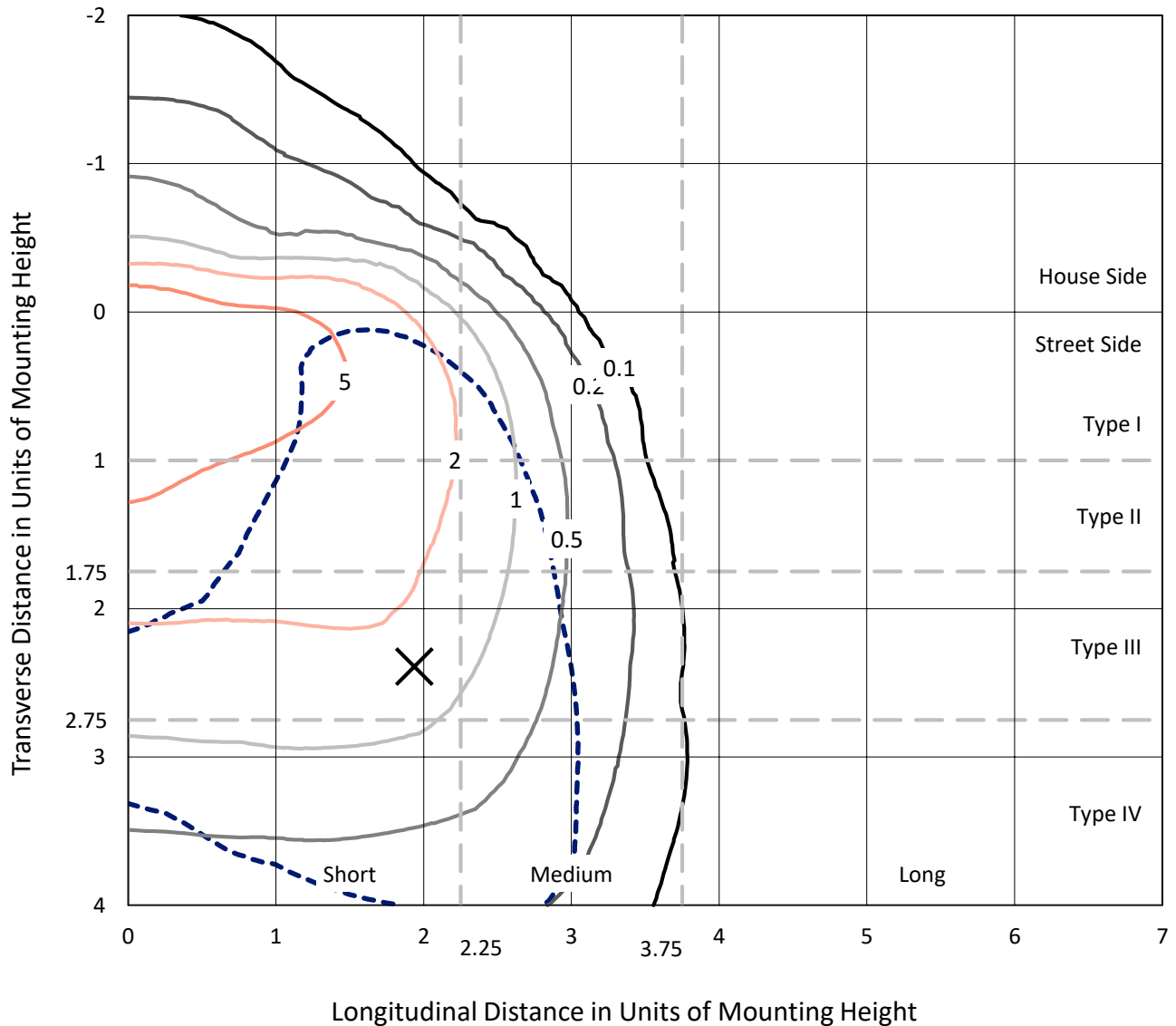


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

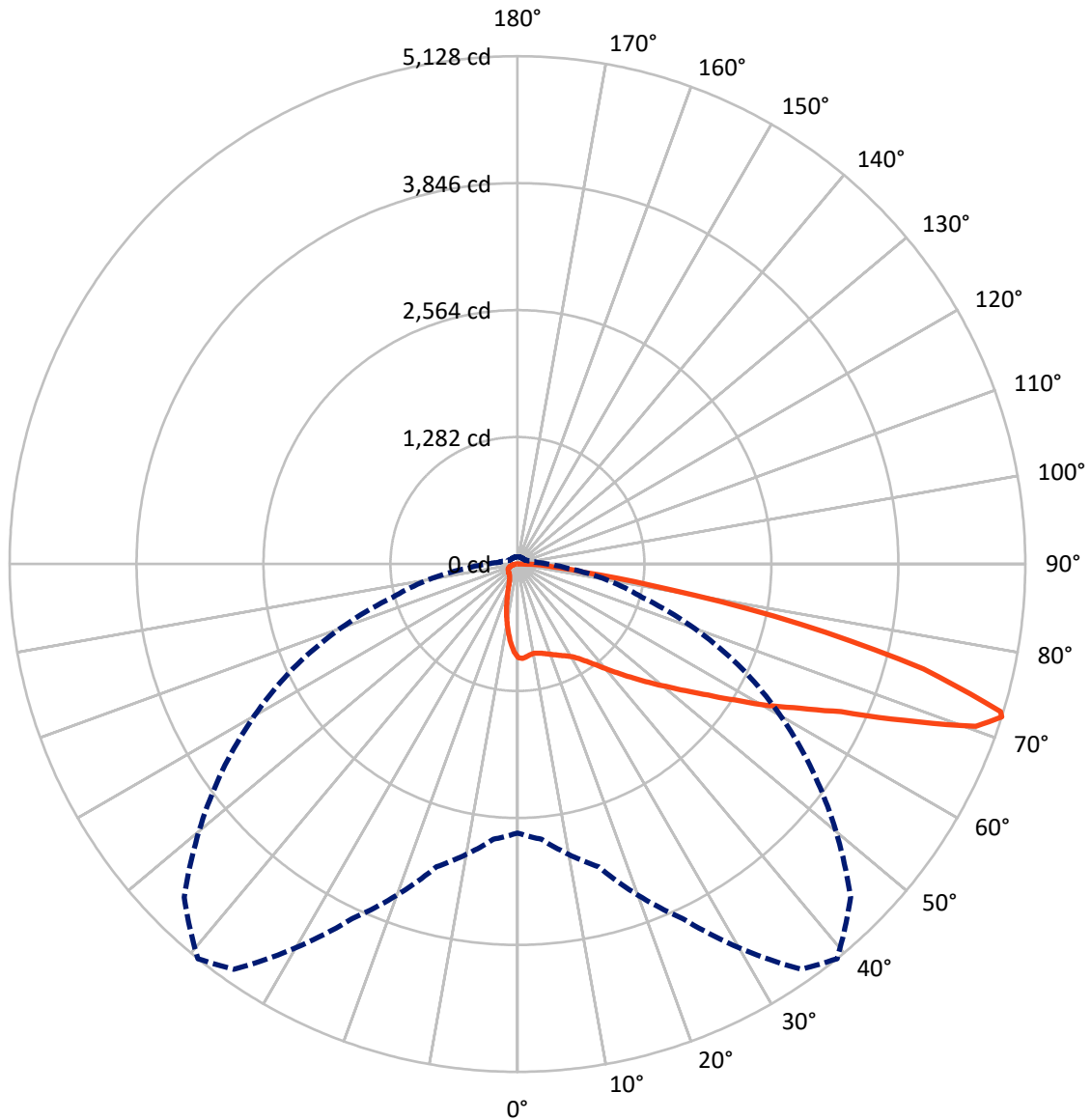


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	709.1	0.0	709.1
	% Fixture	11.5	0.0	11.5
Street Side	Lumens	5474.9	0.0	5474.9
	% Fixture	88.5	0.0	88.5
Total	Lumens	6184.0	0.0	6184.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.2	1.3
10°-20°	203.9	3.3
20°-30°	317.8	5.1
30°-40°	489.3	7.9
40°-50°	797.7	12.9
50°-60°	1239.6	20.0
60°-70°	1659.1	26.8
70°-80°	1193.1	19.3
80°-90°	202.3	3.3
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°	6184.0	100.0
0°-180°	6184.0	100.0



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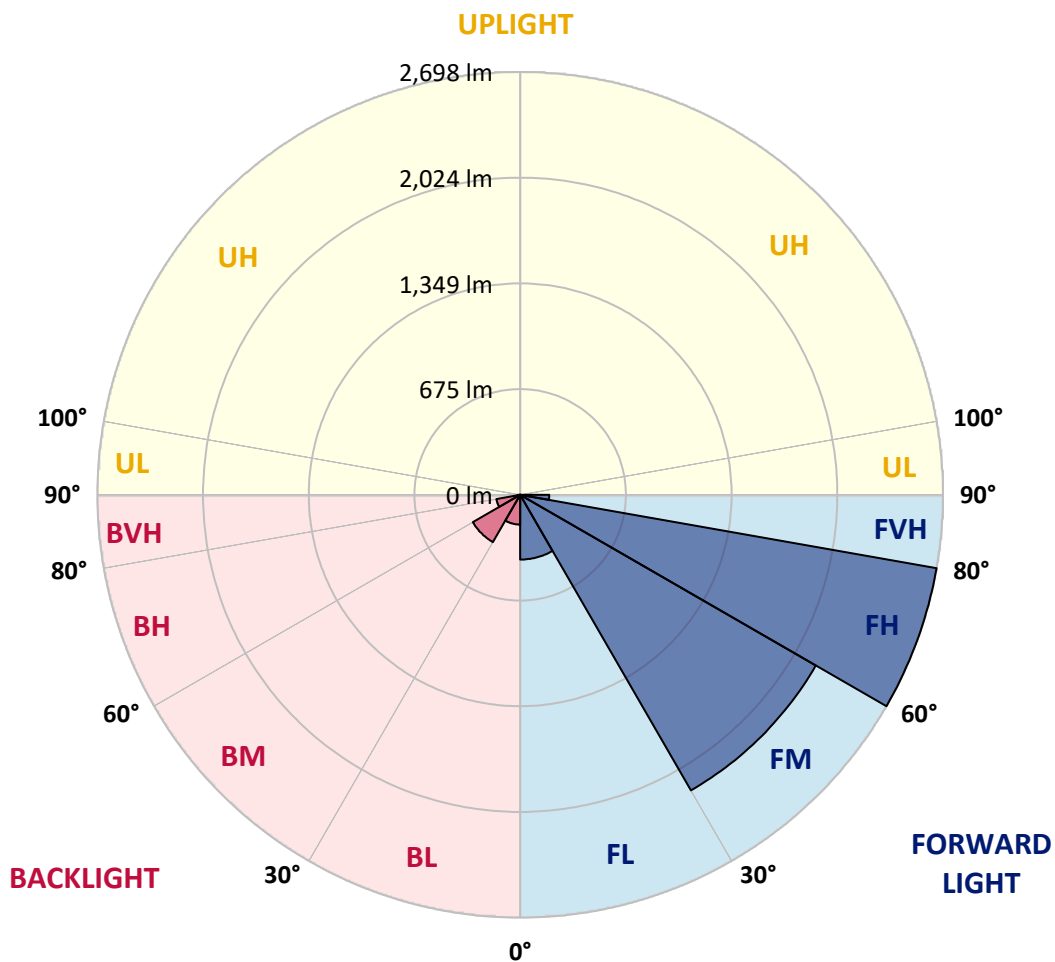
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	413.1	6.7			
FM	(30°-60°)	2178.1	35.2			
FH	(60°-80°)	2698.2	43.6			G2/5000
FVH	(80°-90°)	185.5	3.0			G2/225
BL	(0°-30°)	189.8	3.1	B1/500		
BM	(30°-60°)	348.5	5.6	B1/1000		
BH	(60°-80°)	154.1	2.5	B1/500		G1/500
BVH	(80°-90°)	16.7	0.3			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°	39°	45°	55°	65°	75°	85°
0°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	964.7	965.2	963.9	960.2	956.9	955.2	952.3	947.3	940.7	936.1	932.4
5°	955.6	956.9	956.0	949.8	944.0	940.7	936.1	929.0	920.3	916.6	907.9
7.5°	948.6	949.4	946.9	939.8	928.6	924.5	916.2	907.0	899.2	893.8	883.4
10°	943.6	944.4	942.3	935.3	922.8	917.8	907.9	897.9	887.5	880.9	869.3
12.5°	936.5	938.2	938.2	934.9	926.6	923.2	913.3	902.5	892.9	885.9	871.3
15°	935.3	937.4	941.1	940.7	938.2	935.7	927.8	917.0	908.7	900.4	882.6
17.5°	945.7	950.2	957.7	960.2	958.5	953.1	944.0	934.0	924.9	917.0	895.0
20°	971.8	974.3	985.5	990.5	982.2	974.3	962.3	949.4	941.1	934.9	906.6
22.5°	1011.2	1014.6	1023.7	1024.1	1006.7	997.1	981.8	966.0	958.1	955.6	922.4
25°	1074.3	1073.5	1076.0	1065.6	1034.1	1022.9	1004.2	985.9	980.5	985.5	945.7
27.5°	1149.9	1147.8	1139.9	1112.9	1065.2	1050.7	1028.3	1012.1	1012.1	1023.7	977.2
30°	1237.1	1235.0	1209.3	1164.0	1102.2	1085.6	1061.9	1044.9	1053.6	1076.0	1020.0
32.5°	1329.2	1321.8	1285.6	1225.0	1154.9	1136.6	1113.8	1096.3	1112.9	1151.1	1081.4
35°	1416.0	1411.8	1367.4	1295.6	1223.0	1207.6	1191.8	1170.2	1196.8	1256.2	1168.2
37.5°	1505.7	1502.3	1448.0	1371.6	1306.0	1295.6	1282.3	1267.4	1310.1	1388.2	1285.6
40°	1605.7	1599.1	1530.6	1454.2	1402.7	1397.7	1390.7	1386.5	1455.4	1571.7	1434.3
42.5°	1719.0	1706.2	1617.7	1545.1	1508.1	1512.3	1508.6	1525.2	1630.6	1783.4	1611.1
45°	1848.5	1822.8	1704.5	1641.8	1624.8	1641.4	1649.3	1691.6	1837.8	2027.9	1808.7
47.5°	1969.8	1936.6	1799.6	1746.8	1756.4	1785.0	1807.5	1882.2	2064.8	2269.5	2010.4
50°	2081.4	2044.1	1901.3	1855.6	1902.1	1942.8	1989.3	2094.7	2306.4	2518.1	2195.6
52.5°	2164.0	2137.1	2003.0	1974.3	2069.4	2123.4	2197.7	2330.9	2550.5	2755.2	2360.8
55°	2228.0	2213.4	2102.2	2110.5	2258.7	2335.9	2426.0	2579.2	2808.7	2967.7	2493.7
57.5°	2301.9	2291.1	2215.5	2274.9	2493.7	2590.8	2697.1	2867.3	3054.5	3154.9	2597.8
60°	2379.9	2379.9	2341.7	2472.9	2787.6	2898.8	3004.7	3137.1	3299.4	3323.5	2640.2
62.5°	2438.9	2454.2	2467.9	2683.8	3066.5	3204.8	3321.0	3448.0	3553.0	3406.5	2540.6
65°	2524.4	2557.2	2634.4	2927.5	3411.9	3592.9	3749.8	3856.5	3758.5	3340.5	2215.5
67.5°	2671.3	2719.9	2884.3	3290.3	3940.8	4211.9	4364.2	4179.9	3718.3	2925.0	1697.0
70°	2803.7	2872.2	3153.3	3750.6	4628.2	4909.7	4839.5	4104.7	3238.4	2144.1	1044.0
72°	2715.7	2790.5	3165.7	3951.2	4995.6	5128.4	4758.6	3637.7	2502.4	1308.5	514.8
72.5°	2658.0	2735.7	3125.5	3946.2	5005.6	5100.6	4646.1	3452.2	2271.6	1144.9	416.4
75°	2220.5	2286.9	2687.5	3497.4	4411.1	4236.8	3625.7	2234.2	1044.0	369.9	214.2
77.5°	1450.0	1500.7	1853.1	2423.1	3089.8	2922.1	2206.8	1046.1	391.5	224.6	161.1
80°	728.5	764.7	991.7	1274.0	1667.6	1534.3	1018.7	506.0	261.9	162.3	126.6
82.5°	506.9	540.1	682.9	650.5	697.0	674.6	479.1	422.2	195.9	102.5	66.4
85°	425.1	459.5	565.0	463.7	379.4	345.8	343.3	398.9	129.5	50.6	56.0
87.5°	370.7	423.0	466.2	338.7	260.3	229.6	252.8	365.7	41.1	27.8	17.0
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°	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4	944.4
2.5°	926.1	924.9	918.7	909.1	902.1	897.5	888.8	888.4	889.2	881.7	884.6
5°	900.0	895.0	878.8	856.8	839.0	821.9	803.3	797.0	791.6	780.4	781.7
7.5°	872.6	863.9	835.6	799.5	765.1	733.5	702.4	687.0	675.4	660.9	660.9
10°	856.4	842.7	799.5	746.8	692.0	645.9	599.4	571.6	551.3	532.6	531.4
12.5°	855.6	834.8	774.6	702.0	626.8	562.1	498.6	455.8	425.5	403.5	401.4
15°	862.2	833.2	753.9	660.0	565.4	481.1	402.7	348.3	309.7	285.2	282.7
17.5°	868.0	831.1	731.4	616.0	505.6	403.1	315.9	259.5	222.9	203.0	200.9
20°	873.4	826.5	702.8	569.6	439.6	330.0	247.0	201.3	177.3	166.0	164.8
22.5°	881.3	822.4	672.9	517.2	374.9	268.6	203.8	171.0	158.2	152.8	151.9
25°	894.2	822.8	643.9	463.7	315.5	223.8	176.4	156.1	149.0	145.3	145.3
27.5°	912.9	827.8	615.2	409.3	265.3	193.0	160.2	148.2	143.6	140.7	139.9
30°	940.3	836.9	584.9	357.8	225.4	171.9	150.7	143.2	139.5	137.0	136.6
32.5°	980.1	853.1	552.9	310.9	195.1	156.9	143.6	139.1	136.2	134.1	133.7
35°	1039.5	881.7	521.8	271.1	173.5	146.1	137.8	134.1	132.4	131.6	131.2
37.5°	1126.6	927.8	492.3	239.9	159.4	139.1	132.0	129.9	129.1	129.1	129.1
40°	1236.2	988.4	465.8	217.9	151.5	133.7	127.9	126.2	126.2	126.6	126.6
42.5°	1369.5	1064.4	442.9	203.0	147.0	129.9	125.0	124.1	123.7	123.7	124.1
45°	1524.3	1154.0	428.8	191.4	143.6	127.9	122.9	122.5	120.8	120.0	120.0
47.5°	1680.0	1249.9	428.0	184.7	139.5	125.4	120.8	120.8	117.5	115.8	116.2
50°	1825.3	1335.9	437.1	183.1	137.0	121.6	118.7	119.1	114.6	112.5	112.1
52.5°	1942.4	1401.5	448.3	185.1	137.0	118.3	115.0	117.1	112.1	109.6	109.2
55°	2032.9	1447.1	452.5	189.7	138.7	115.4	111.7	115.0	111.3	107.9	107.9
57.5°	2097.6	1461.7	434.6	191.8	141.1	115.0	108.3	114.6	112.5	108.3	108.3
60°	2074.0	1377.4	368.2	183.9	140.7	114.2	105.9	115.4	116.6	112.1	112.1
62.5°	1889.2	1152.4	295.6	166.0	133.7	111.3	103.0	114.6	119.6	117.9	117.1
65°	1538.0	845.2	229.1	144.9	121.6	105.0	96.7	107.1	112.9	114.6	115.0
67.5°	1083.9	535.1	178.1	123.3	106.7	95.9	89.7	94.6	96.7	97.6	99.2
70°	592.8	289.8	141.6	103.8	91.3	86.8	82.2	82.6	81.8	80.9	81.8
72°	297.6	189.3	119.6	90.1	80.9	78.0	76.0	74.7	74.7	73.5	73.9
72.5°	256.1	176.0	115.4	86.8	78.5	76.0	74.3	73.1	72.6	71.8	72.2
75°	170.6	139.5	96.3	72.6	66.8	65.2	66.0	64.8	65.2	64.3	64.8
77.5°	137.8	120.0	81.8	61.4	57.3	54.8	56.5	56.9	57.7	56.9	56.5
80°	115.4	102.1	68.5	50.6	47.7	45.7	46.5	49.4	49.8	47.3	46.9
82.5°	74.7	82.2	54.0	39.4	36.5	35.7	37.8	40.7	41.5	38.2	37.4
85°	62.7	66.0	39.0	27.0	24.1	23.2	27.4	30.3	32.4	29.1	28.2
87.5°	17.4	32.4	19.1	12.9	10.8	10.8	13.3	15.8	18.7	19.1	19.1
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)