

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: P271323

Luminaire Tested: **XNV2-AF-02-LED-U-SL4-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271323
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-SL4-7027-600-HSS
Description: XNV2 ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 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: 5623.8 lumens
Efficiency: N/A
Efficacy: 85.2 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

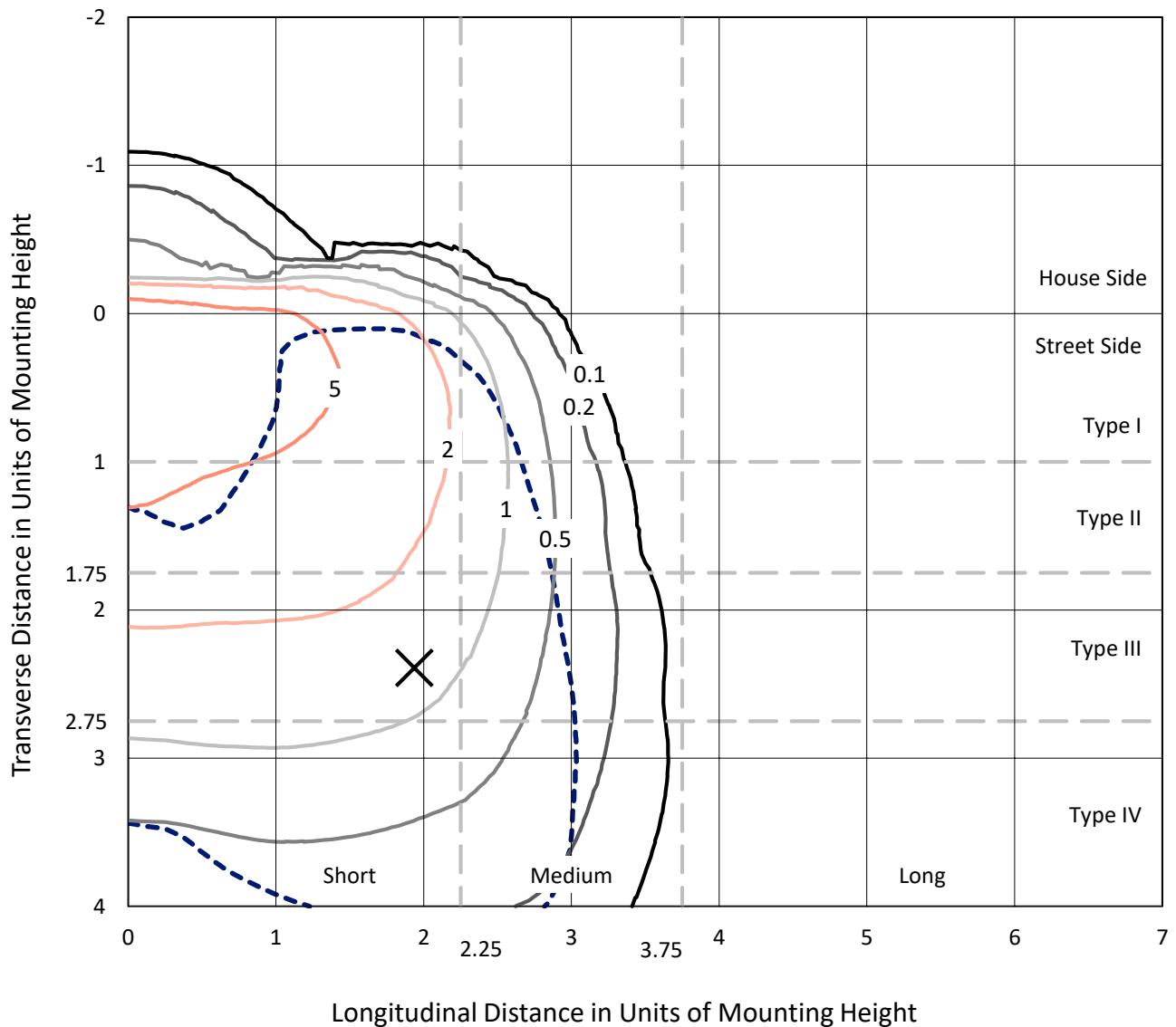


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

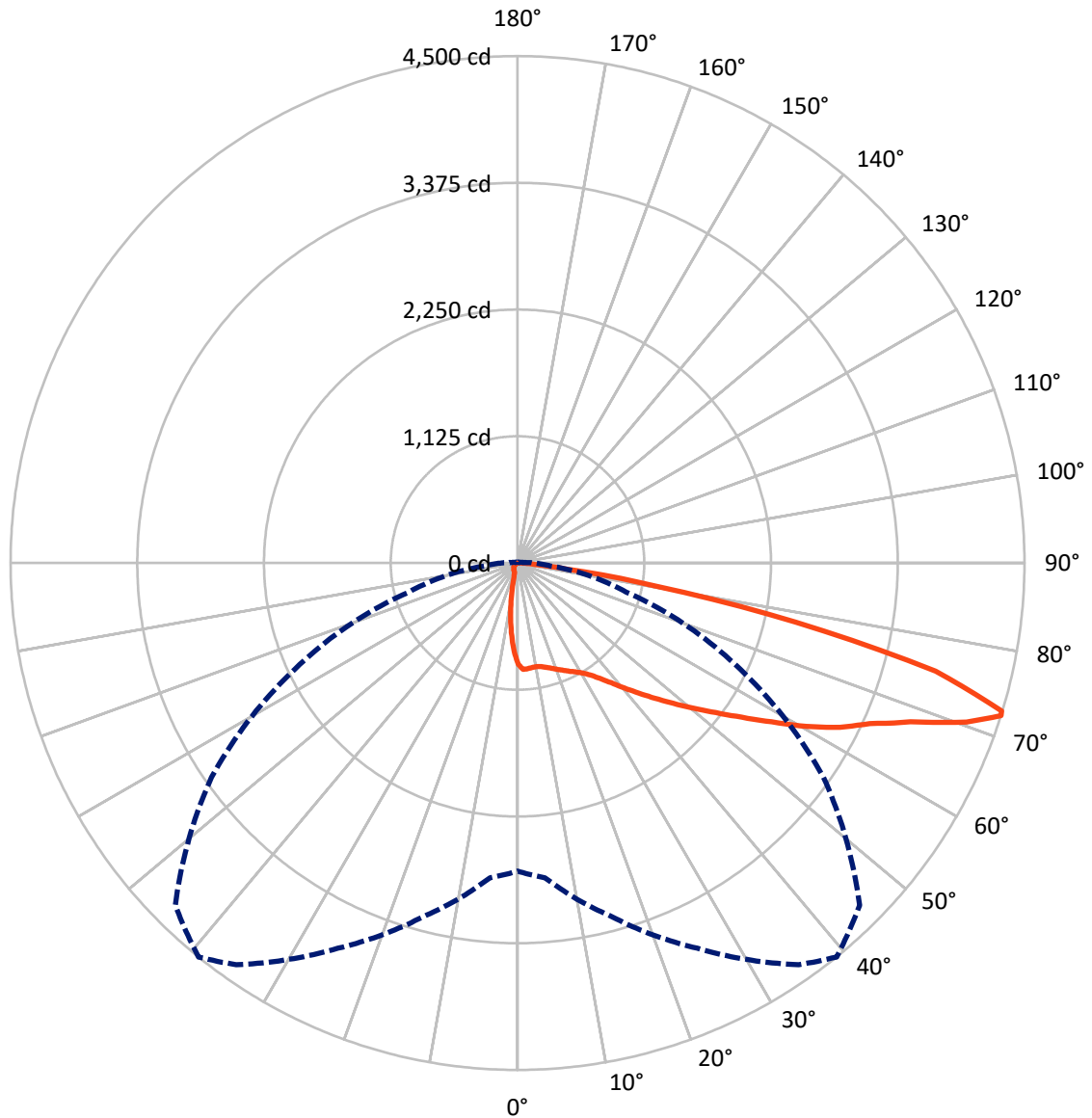


Based on 10 foot mounting height. Maximum calculated value = 9.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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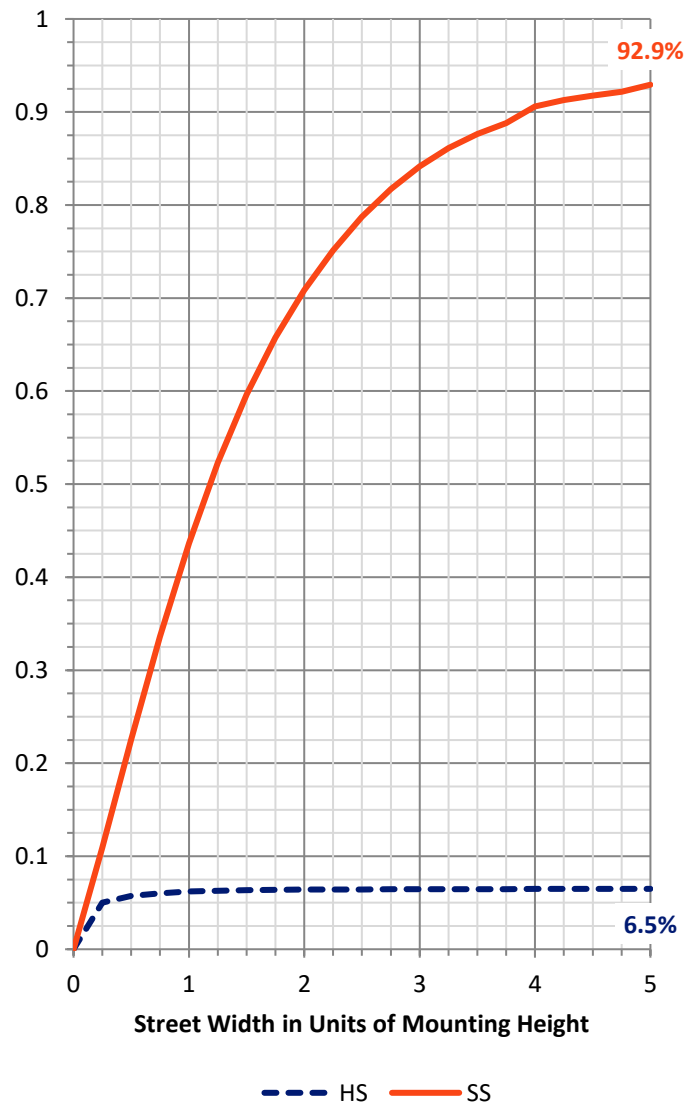
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	368.5	0.0	368.5
	% Fixture	6.6	0.0	6.6
Street Side	Lumens	5255.3	0.0	5255.3
	% Fixture	93.4	0.0	93.4
Total	Lumens	5623.8	0.0	5623.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.3
10°-20°	177.3	3.2
20°-30°	294.4	5.2
30°-40°	469.2	8.3
40°-50°	774.4	13.8
50°-60°	1169.6	20.8
60°-70°	1523.6	27.1
70°-80°	1029.5	18.3
80°-90°	112.7	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°	5623.8	100.0
0°-180°	5623.8	100.0



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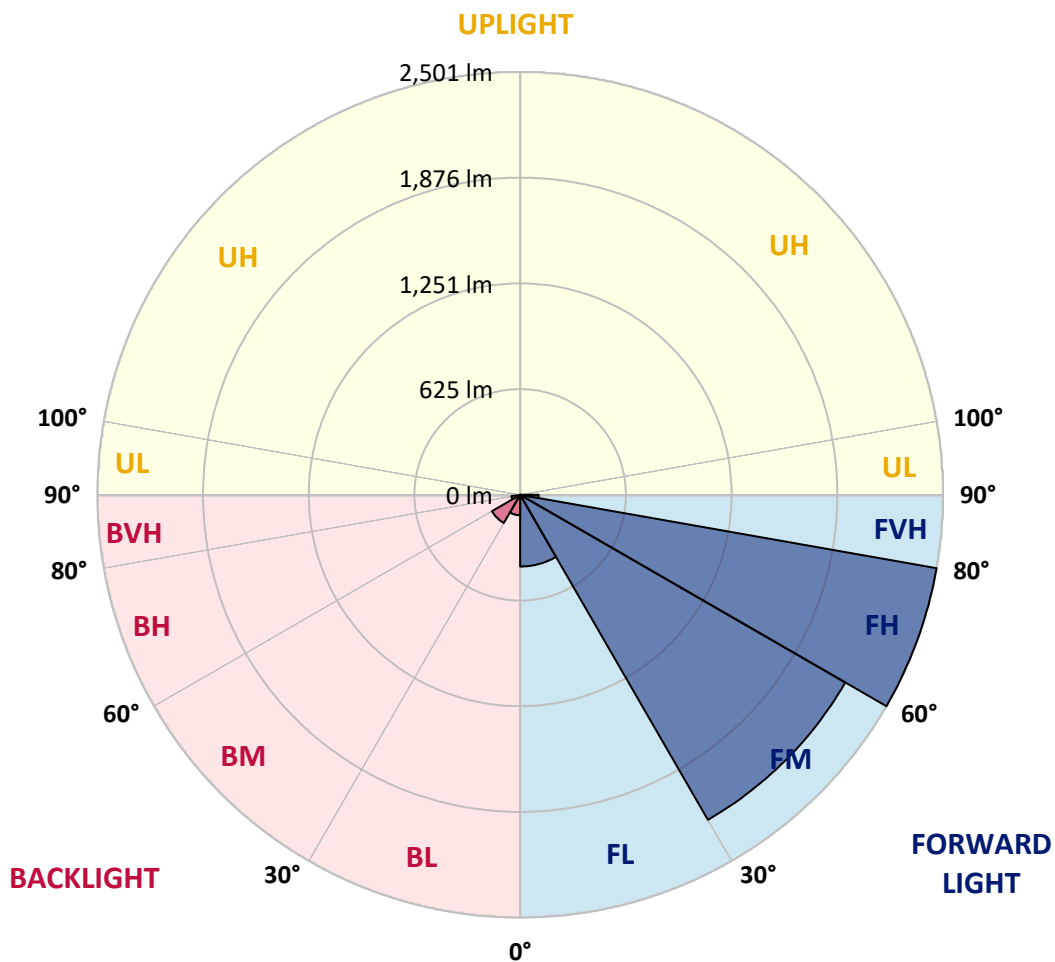
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	424.2	7.5			
FM	(30°-60°)	2220.4	39.5			
FH	(60°-80°)	2501.2	44.5			G2/5000
FVH	(80°-90°)	109.5	1.9			G2/225
BL	(0°-30°)	120.7	2.1	B1/500		
BM	(30°-60°)	192.8	3.4	B0/220		
BH	(60°-80°)	51.8	0.9	B0/110		G0/110
BVH	(80°-90°)	3.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1
2.5°	958.5	960.3	958.0	954.1	948.3	944.7	939.9	929.3	916.0	904.6	891.3
5°	965.9	966.8	964.2	956.8	947.9	943.0	936.8	925.3	911.6	895.7	871.9
7.5°	968.3	967.7	964.7	955.3	941.8	935.6	924.9	910.7	896.6	882.0	855.0
10°	967.4	967.4	965.0	956.2	940.9	935.0	923.1	908.0	890.4	875.8	847.1
12.5°	964.2	965.9	964.7	959.7	948.3	943.8	933.2	918.2	901.4	886.4	855.9
15°	968.3	970.9	973.6	971.7	965.0	961.1	951.5	935.9	922.2	906.3	873.6
17.5°	984.2	989.9	996.1	996.5	989.5	982.3	971.2	955.3	942.1	927.6	892.1
20°	1014.1	1018.6	1030.1	1032.3	1018.1	1008.0	992.5	973.9	960.6	948.3	909.4
22.5°	1058.8	1063.8	1073.0	1069.9	1046.0	1034.0	1014.6	993.4	979.7	972.7	929.3
25°	1126.6	1127.8	1130.1	1116.4	1077.0	1063.8	1039.9	1016.0	1004.9	1004.0	957.7
27.5°	1206.1	1207.9	1198.1	1167.5	1111.5	1094.2	1067.2	1045.5	1040.2	1047.0	993.4
30°	1297.2	1297.6	1270.7	1221.2	1151.3	1132.3	1104.3	1080.5	1085.4	1101.7	1039.3
32.5°	1390.4	1386.1	1348.8	1284.3	1205.6	1182.7	1158.8	1134.9	1149.0	1182.2	1106.6
35°	1475.7	1473.9	1430.2	1355.1	1276.4	1256.0	1238.9	1213.6	1236.5	1290.5	1198.1
37.5°	1561.2	1559.7	1509.8	1431.5	1363.4	1348.8	1336.0	1316.6	1354.1	1433.3	1320.6
40°	1655.2	1653.1	1591.5	1516.5	1464.7	1456.7	1449.2	1440.8	1504.9	1615.1	1473.1
42.5°	1771.5	1761.8	1678.3	1608.9	1576.2	1578.3	1578.9	1587.1	1687.6	1831.3	1653.1
45°	1905.0	1883.3	1765.3	1707.9	1698.5	1711.9	1725.1	1760.0	1900.2	2080.1	1852.0
47.5°	2034.7	1999.6	1865.7	1814.4	1833.4	1860.8	1892.6	1960.8	2139.0	2340.5	2032.3
50°	2146.1	2110.2	1965.2	1922.7	1983.3	2024.1	2080.6	2183.6	2391.0	2560.7	2146.1
52.5°	2233.5	2205.2	2070.5	2042.0	2149.6	2205.2	2294.1	2429.3	2628.8	2705.8	2225.6
55°	2298.1	2283.9	2171.3	2175.2	2334.3	2414.9	2525.3	2678.2	2829.5	2818.4	2285.3
57.5°	2371.0	2359.9	2276.8	2332.1	2556.8	2660.6	2788.3	2911.2	2975.5	2909.2	2343.7
60°	2445.7	2449.3	2405.1	2522.3	2831.7	2946.7	3058.1	3088.6	3100.5	3001.1	2405.1
62.5°	2502.4	2517.4	2521.4	2727.3	3113.7	3211.9	3260.0	3238.5	3235.9	3124.5	2400.2
65°	2567.4	2606.7	2672.1	2952.4	3370.3	3434.8	3469.3	3500.7	3434.3	3161.0	2164.1
67.5°	2679.6	2741.5	2888.8	3228.2	3666.4	3761.9	3859.7	3826.5	3464.0	2788.3	1648.6
70°	2830.9	2906.5	3166.3	3588.5	4068.3	4228.3	4310.2	3800.4	2941.0	1926.8	869.6
72°	2735.3	2803.9	3252.1	3772.5	4353.0	4499.8	4295.2	3314.9	2131.9	998.7	291.3
72.5°	2642.5	2713.2	3224.7	3770.4	4381.4	4493.6	4197.4	3123.5	1886.5	777.3	200.7
75°	1833.4	1922.7	2764.5	3389.2	3956.4	3833.1	3211.5	1891.3	683.5	133.5	66.4
77.5°	947.9	1016.8	1677.0	2394.9	2757.4	2525.3	1897.9	820.5	189.3	70.7	43.7
80°	587.6	621.5	784.3	1180.1	1432.4	1253.0	837.4	331.6	121.1	42.0	34.9
82.5°	304.2	330.2	493.9	476.1	529.2	439.9	309.0	277.7	74.6	26.1	35.8
85°	99.9	106.1	303.3	316.6	226.4	152.2	137.0	264.8	21.6	16.8	30.5
87.5°	13.2	15.5	106.5	181.3	111.4	69.0	82.3	93.2	7.5	9.3	8.4
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°	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1	900.1
2.5°	882.5	876.7	858.6	840.5	819.7	800.7	785.7	775.9	780.4	765.7	768.0
5°	857.3	842.7	802.8	760.0	713.6	670.2	635.8	610.0	605.3	583.1	584.0
7.5°	833.0	809.1	744.5	673.8	596.8	534.5	477.9	428.4	410.7	392.6	382.0
10°	819.7	786.9	695.5	592.4	484.0	392.6	313.0	250.6	224.5	205.6	196.3
12.5°	823.7	780.4	658.7	518.6	376.2	260.0	176.8	131.3	115.4	106.5	103.5
15°	837.0	781.6	625.6	446.5	273.7	157.5	103.9	88.8	87.6	87.0	86.6
17.5°	849.3	783.1	590.6	371.4	183.1	100.4	83.5	82.3	82.3	82.3	82.3
20°	862.2	783.4	552.2	292.7	120.3	82.3	78.7	77.9	78.7	78.7	78.7
22.5°	877.1	786.6	515.1	216.2	88.8	77.3	75.2	74.6	75.2	75.2	74.6
25°	895.7	793.2	474.8	154.8	80.5	74.3	72.0	71.7	72.0	71.7	71.7
27.5°	920.5	801.9	428.0	111.0	77.0	71.1	69.0	69.0	69.0	68.5	68.5
30°	952.4	812.5	365.3	87.6	73.4	68.1	66.4	66.4	65.8	65.4	65.4
32.5°	997.8	829.9	296.7	79.1	69.3	64.0	62.3	62.8	62.3	62.0	61.4
35°	1062.3	856.9	229.0	74.6	65.4	60.1	58.4	58.4	58.4	57.5	57.5
37.5°	1154.0	897.9	171.5	70.2	61.4	56.1	54.0	54.0	53.4	52.6	53.1
40°	1267.1	949.7	124.2	66.4	57.5	51.7	49.9	49.0	48.1	47.3	47.3
42.5°	1403.2	1000.1	93.2	62.3	53.4	48.1	46.0	45.0	43.3	42.4	42.0
45°	1555.8	1053.5	77.3	57.5	49.0	44.1	42.4	40.7	38.4	37.1	36.7
47.5°	1684.4	1086.3	69.0	52.6	44.6	40.2	38.4	35.8	33.1	32.2	32.2
50°	1761.8	1072.5	62.0	47.7	40.2	36.2	34.0	30.5	28.7	27.8	27.4
52.5°	1805.1	1032.0	56.1	43.7	36.2	31.8	28.7	25.6	24.8	23.9	23.9
55°	1834.8	973.0	49.9	39.7	32.7	27.8	24.3	22.1	21.2	20.8	20.3
57.5°	1863.1	901.4	44.1	36.2	29.1	24.8	20.8	19.9	18.1	17.6	17.6
60°	1871.4	802.8	38.8	32.2	26.1	21.6	18.1	16.8	15.0	14.6	14.6
62.5°	1764.5	638.9	34.5	27.4	22.9	18.5	15.9	14.2	12.3	12.3	12.3
65°	1474.5	433.7	29.6	23.9	20.3	15.9	13.7	11.5	10.6	10.6	10.6
67.5°	1027.0	241.9	25.2	20.3	17.2	13.2	11.5	9.7	9.3	9.7	9.7
70°	462.8	95.8	21.2	16.8	14.2	11.0	9.7	8.4	9.3	9.3	9.3
72°	138.8	51.4	17.6	13.7	11.5	9.7	8.4	7.9	8.9	9.3	9.3
72.5°	103.0	46.0	16.8	13.2	11.5	9.3	7.9	7.9	8.9	9.3	9.3
75°	53.1	31.4	12.8	9.7	8.4	7.5	6.6	7.5	8.9	8.9	8.9
77.5°	41.5	25.6	10.6	7.5	7.0	6.6	6.2	7.0	7.9	7.9	7.9
80°	38.8	16.8	8.4	7.0	6.2	5.7	5.7	6.2	7.0	7.5	7.5
82.5°	39.3	13.7	7.5	6.6	5.7	5.3	5.3	5.7	6.6	7.0	7.0
85°	25.2	9.3	6.6	5.7	5.3	4.9	4.9	5.3	6.2	6.6	6.6
87.5°	8.4	7.0	5.7	5.3	4.4	4.4	4.4	4.4	5.3	5.7	6.2
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)