

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: P254200

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-17-90°)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-AF24-90-D-U-T2U-7030-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 3000K, 1180mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED TO PROVIDE RELEVANT COMPARISON TO
COMPETITIVE OFFERINGS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5720.8 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 94
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

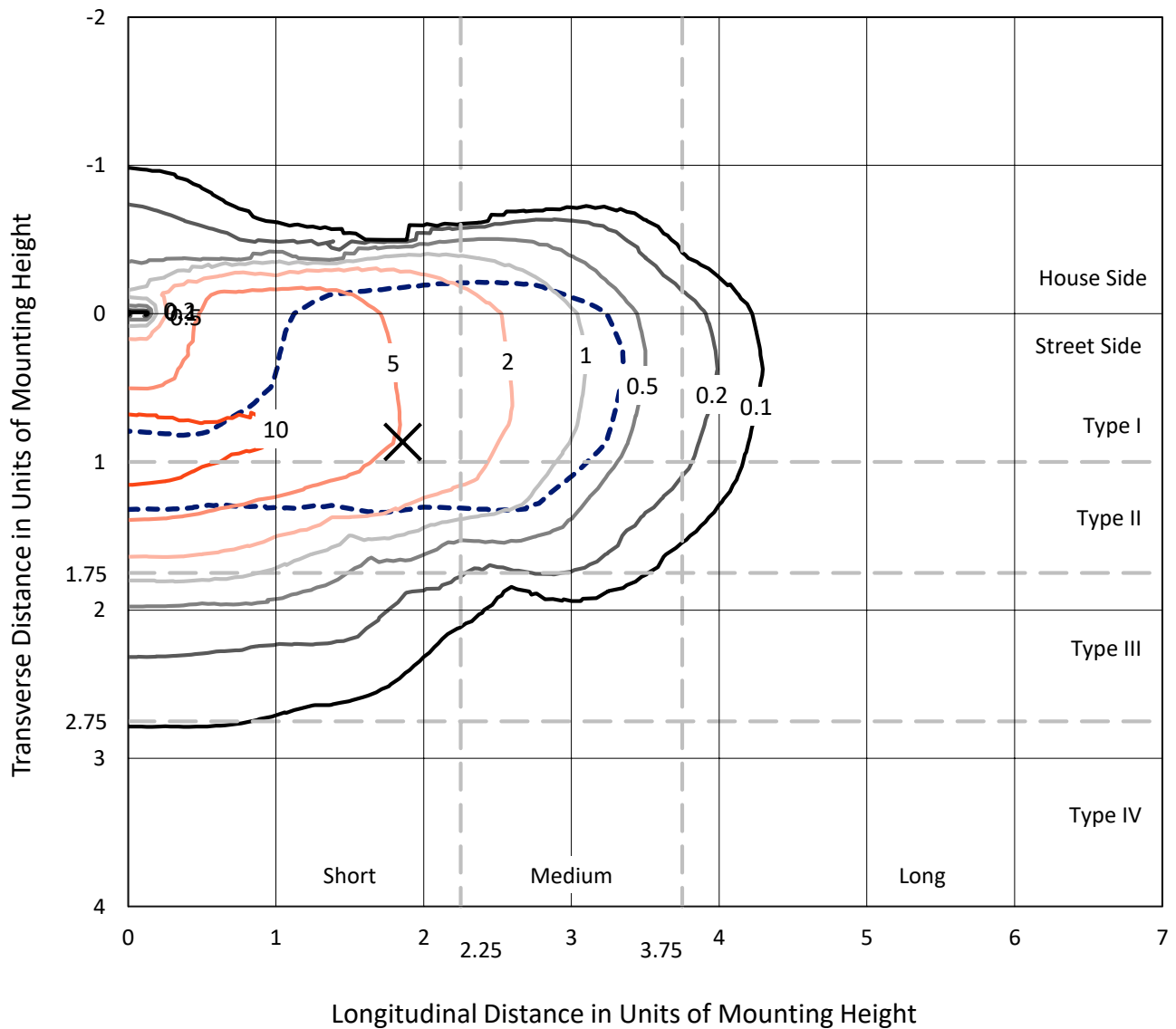


REPORT NUMBER: P254200

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-7030-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

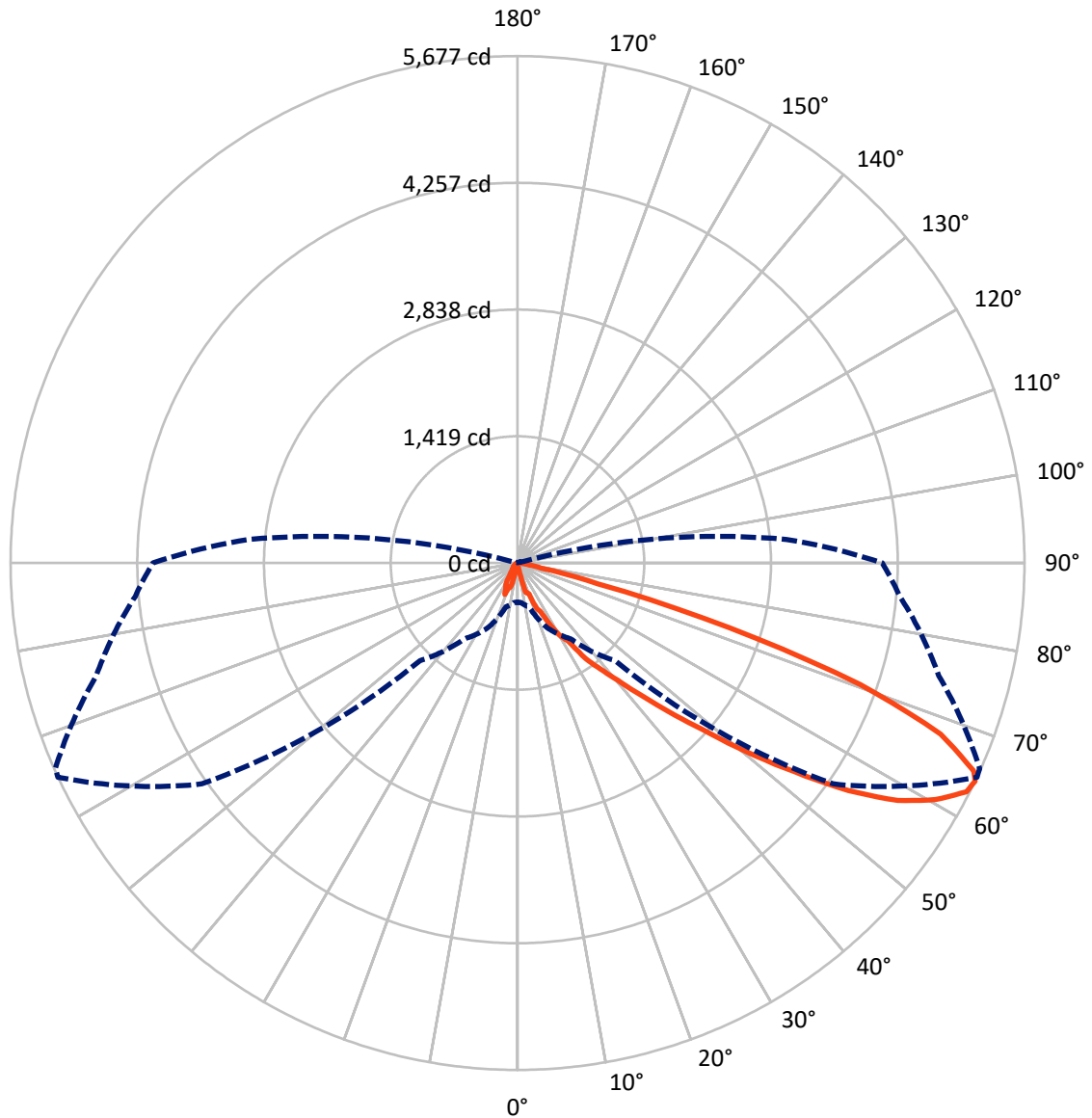


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P254200

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-7030-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P254200

CATALOG NUMBER: LXF.LXT-AF24-90-D-U-T2U-7030-HSS

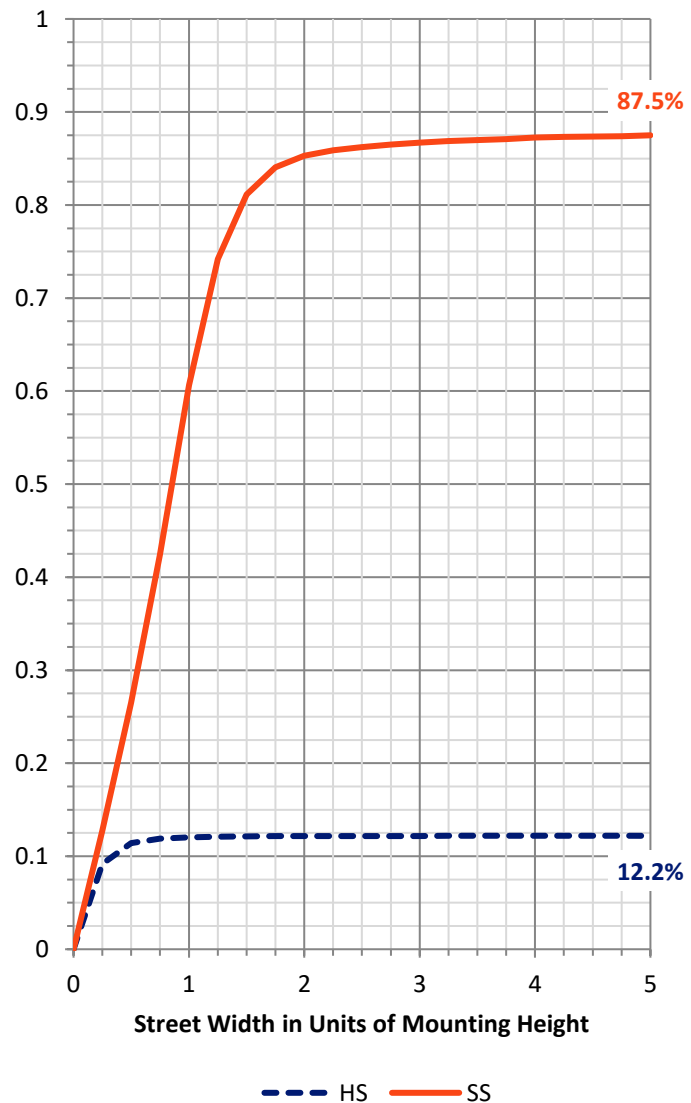
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	705.2	0.0	705.2
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5015.6	0.0	5015.6
	% Fixture	87.7	0.0	87.7
Total	Lumens	5720.8	0.0	5720.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.1
10°-20°	57.2	1.0
20°-30°	194.1	3.4
30°-40°	544.8	9.5
40°-50°	1265.0	22.1
50°-60°	1768.1	30.9
60°-70°	1394.7	24.4
70°-80°	467.1	8.2
80°-90°	25.4	0.4
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°	5720.8	100.0
0°-180°	5720.8	100.0



REPORT NUMBER: P254200

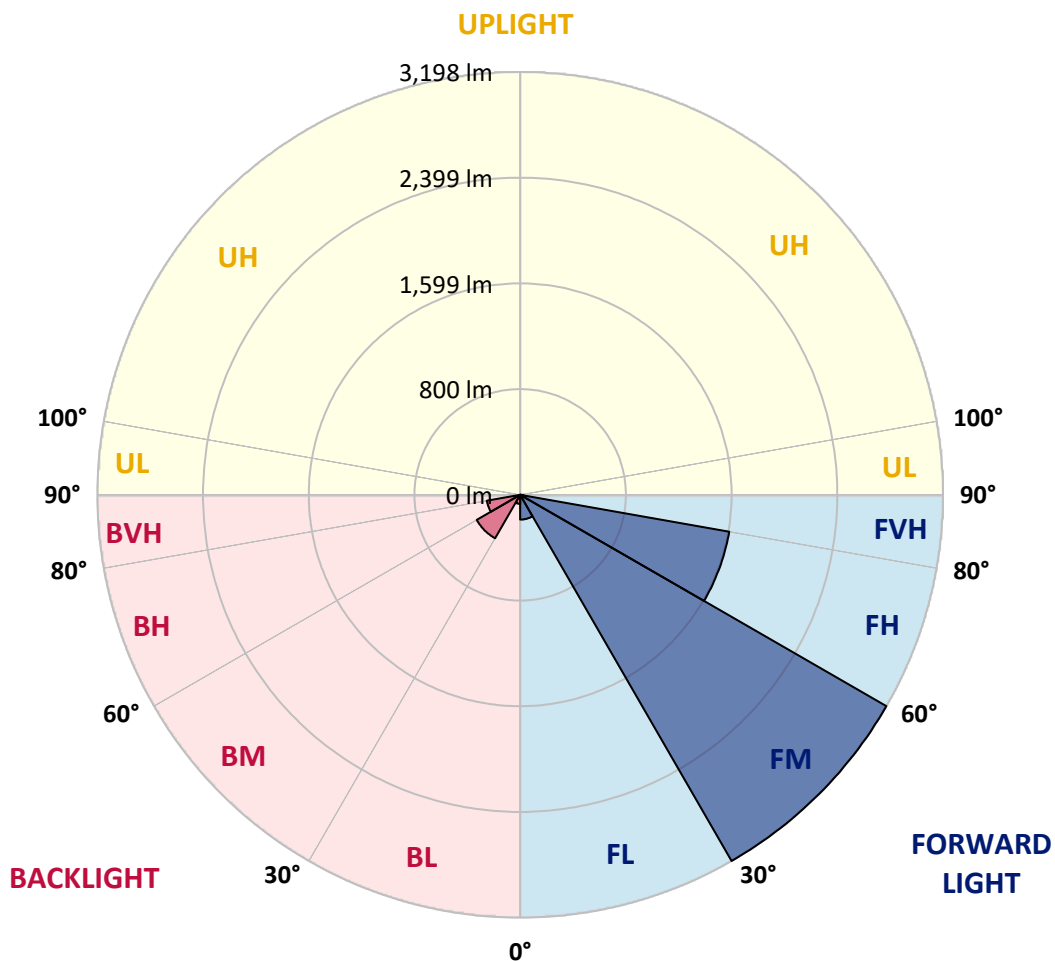
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	187.4	3.3			
FM	(30°-60°)	3198.2	55.9			
FH	(60°-80°)	1605.7	28.1			G1/1800
FVH	(80°-90°)	24.2	0.4			G1/100
BL	(0°-30°)	68.3	1.2	B0/110		
BM	(30°-60°)	379.6	6.6	B1/1000		
BH	(60°-80°)	256.1	4.5	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	112.6	46.8	35.3	22.0	6.7	1.8	1.0	0.0	0.0	0.0	0.0
7.5°	162.4	161.3	161.3	163.4	165.2	150.9	11.5	1.0	0.0	0.0	0.0
10°	154.7	153.7	153.7	156.6	159.5	162.4	163.4	5.7	3.9	0.0	0.0
12.5°	309.4	307.6	296.1	176.7	159.5	160.4	164.2	111.8	66.8	24.8	118.4
15°	304.7	303.7	304.7	311.3	311.3	166.2	248.3	335.2	334.3	217.8	255.0
17.5°	312.3	307.6	305.6	310.4	318.1	367.6	363.9	352.4	353.4	231.1	261.6
20°	449.8	450.8	457.5	349.5	329.5	465.1	412.6	370.5	376.3	444.0	481.3
22.5°	457.5	456.4	465.1	481.3	567.3	477.5	553.0	555.8	568.2	581.6	516.7
25°	632.2	631.3	516.7	506.2	606.4	535.8	661.8	601.7	612.2	614.0	633.1
27.5°	715.3	706.7	712.5	715.3	639.8	752.6	685.7	794.6	761.1	841.4	803.2
30°	911.1	884.4	818.5	829.0	791.7	802.2	830.8	949.3	917.8	892.0	877.7
32.5°	1332.2	1316.0	1251.0	1032.4	960.7	872.9	1008.5	1039.0	1042.9	1220.5	1216.7
35°	1946.4	1831.7	1602.5	1441.1	1150.8	1140.2	1118.3	1313.2	1322.7	1390.6	1389.6
37.5°	2739.9	2717.0	2391.3	1857.5	1520.4	1337.0	1391.4	1506.0	1469.7	1612.0	1614.0
40°	3223.1	3201.2	2937.7	2477.4	1942.5	1680.9	1615.0	1725.7	1664.6	1911.0	1863.2
42.5°	3571.6	3548.8	3356.9	2929.0	2559.4	2263.5	1966.3	2013.2	1974.0	2194.6	2173.6
45°	3780.0	3747.5	3665.3	3302.5	3066.6	2941.5	2473.5	2371.3	2380.9	2550.8	2527.9
47.5°	3768.5	3718.8	3739.8	3518.2	3495.3	3565.0	3104.7	2778.1	2886.9	2977.8	2918.6
50°	3470.5	3431.4	3549.8	3579.4	3776.1	4056.9	3773.3	3319.7	3456.2	3398.8	3275.7
52.5°	2918.6	2926.2	3098.0	3298.6	3824.8	4395.9	4415.0	3886.0	4071.2	3780.0	3600.4
55°	2334.0	2355.1	2543.2	2785.8	3526.9	4506.7	4950.7	4495.3	4656.6	4094.2	3835.3
57.5°	1716.1	1749.6	1985.5	2191.7	2901.3	4224.0	5215.3	5018.6	5115.1	4364.4	4019.6
60°	1017.1	1035.2	1348.5	1647.4	2101.9	3386.5	5204.8	5378.7	5411.1	4644.2	4166.7
62.5°	600.7	610.2	715.3	1111.6	1384.8	2220.3	4808.5	5641.3	5631.7	4822.8	4267.8
64°	438.3	445.0	510.0	807.0	1035.2	1546.1	4311.9	5676.6	5665.1	4883.1	4296.6
65°	366.7	372.5	418.3	637.0	861.4	1182.3	3760.8	5613.5	5605.9	4913.5	4294.7
67.5°	294.1	295.1	308.4	373.4	586.4	620.7	2177.4	5110.3	5087.3	4945.1	4224.0
70°	263.6	267.3	291.2	294.1	428.9	407.7	765.9	4070.2	4020.6	4694.9	4059.7
72.5°	209.1	214.9	253.1	288.5	309.4	305.6	349.5	2482.1	2502.1	3449.6	3402.7
75°	146.1	151.9	190.9	238.7	244.5	223.4	252.2	932.1	919.6	1703.8	1978.8
77.5°	90.6	93.6	119.4	171.9	227.3	148.0	175.7	270.3	289.3	528.2	540.5
80°	60.2	61.0	75.5	113.6	157.6	133.8	105.0	136.6	139.5	166.2	82.2
82.5°	33.5	34.4	47.7	71.7	94.5	118.4	67.8	82.2	86.9	103.1	43.9
85°	11.5	12.4	24.8	40.1	57.3	57.3	43.9	49.7	50.6	64.9	23.0
87.5°	0.0	0.0	5.7	10.5	9.5	3.9	9.5	7.6	6.7	10.5	3.9
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: P254200

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	1.0	0.0	0.0	0.0	0.0	120.3	132.8	133.8	135.6
10°	0.0	0.0	1.0	1.0	0.0	128.0	135.6	132.8	126.0	124.1	122.3
12.5°	122.3	117.5	16.3	3.9	107.9	133.8	120.3	103.1	86.9	82.2	78.3
15°	252.2	249.2	222.6	244.5	151.9	114.6	85.0	91.7	77.3	72.5	70.7
17.5°	256.0	252.2	237.7	287.5	236.9	116.5	78.3	63.1	57.3	55.4	54.4
20°	486.1	471.8	345.7	282.7	181.5	118.4	60.2	50.6	46.8	51.6	54.4
22.5°	500.4	484.2	417.4	379.1	151.9	77.3	57.3	55.4	58.2	55.4	55.4
25°	631.3	583.6	458.5	311.3	134.6	68.8	64.9	50.6	46.8	44.9	44.9
27.5°	784.1	747.8	633.1	292.3	90.6	72.5	56.4	43.9	48.7	48.7	48.7
30°	838.4	787.9	639.8	256.0	80.2	65.9	47.7	47.7	42.9	41.1	41.1
32.5°	1204.2	1130.8	821.3	179.5	72.5	55.4	47.7	40.1	39.2	42.1	42.1
35°	1341.8	1255.8	800.4	132.8	64.0	50.6	41.1	39.2	37.2	37.2	37.2
37.5°	1525.1	1423.8	734.4	98.4	60.2	42.9	36.3	34.4	35.3	37.2	38.2
40°	1764.9	1642.6	680.9	81.2	51.6	37.2	32.4	33.5	33.5	33.5	33.5
42.5°	2047.5	1878.5	601.7	72.5	43.9	33.5	29.6	29.6	30.6	30.6	30.6
45°	2372.2	2136.3	490.9	64.0	38.2	28.6	26.8	26.8	26.8	25.7	26.8
47.5°	2716.0	2415.1	372.5	56.4	32.4	25.7	23.9	23.0	23.0	22.0	23.0
50°	3057.9	2675.0	272.2	48.7	28.6	23.0	20.1	20.1	20.1	19.1	19.1
52.5°	3331.1	2850.7	193.0	42.1	24.8	20.1	17.2	16.3	16.3	15.3	15.3
55°	3560.3	2955.8	141.4	35.3	22.0	17.2	14.3	13.3	13.3	12.4	13.3
57.5°	3737.0	3021.7	107.0	28.6	19.1	14.3	11.5	10.5	10.5	10.5	10.5
60°	3886.0	3043.6	82.2	23.9	16.3	11.5	9.5	8.6	8.6	7.6	8.6
62.5°	4024.4	3037.9	67.8	21.0	14.3	9.5	7.6	6.7	5.7	4.8	5.7
64°	4083.7	3022.6	61.0	18.1	13.3	8.6	6.7	5.7	4.8	2.8	3.9
65°	4108.4	2998.7	56.4	16.3	12.4	7.6	6.7	5.7	2.8	1.8	2.8
67.5°	4087.4	2875.4	43.9	14.3	9.5	5.7	4.8	3.9	1.0	1.0	1.8
70°	3853.5	2613.8	33.5	12.4	8.6	4.8	3.9	2.8	1.8	1.0	1.8
72.5°	3026.4	1879.5	25.7	9.5	6.7	2.8	3.9	2.8	1.8	1.0	0.0
75°	1623.5	705.7	19.1	7.6	5.7	2.8	2.8	1.8	1.0	1.0	0.0
77.5°	418.3	222.6	13.3	4.8	4.8	1.8	1.8	1.8	1.0	1.0	0.0
80°	64.9	31.4	5.7	3.9	2.8	1.0	1.8	1.0	1.0	1.8	0.0
82.5°	26.8	12.4	3.9	2.8	2.8	0.0	1.8	1.0	1.0	1.0	0.0
85°	6.7	4.8	2.8	1.8	1.8	0.0	1.0	0.0	1.0	1.0	0.0
87.5°	1.0	1.8	1.8	1.8	1.8	0.0	1.0	0.0	0.0	0.0	0.0
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)