

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: P254209

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254209
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-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 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: 6050.7 lumens
Efficiency: N/A
Efficacy: 64.4 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

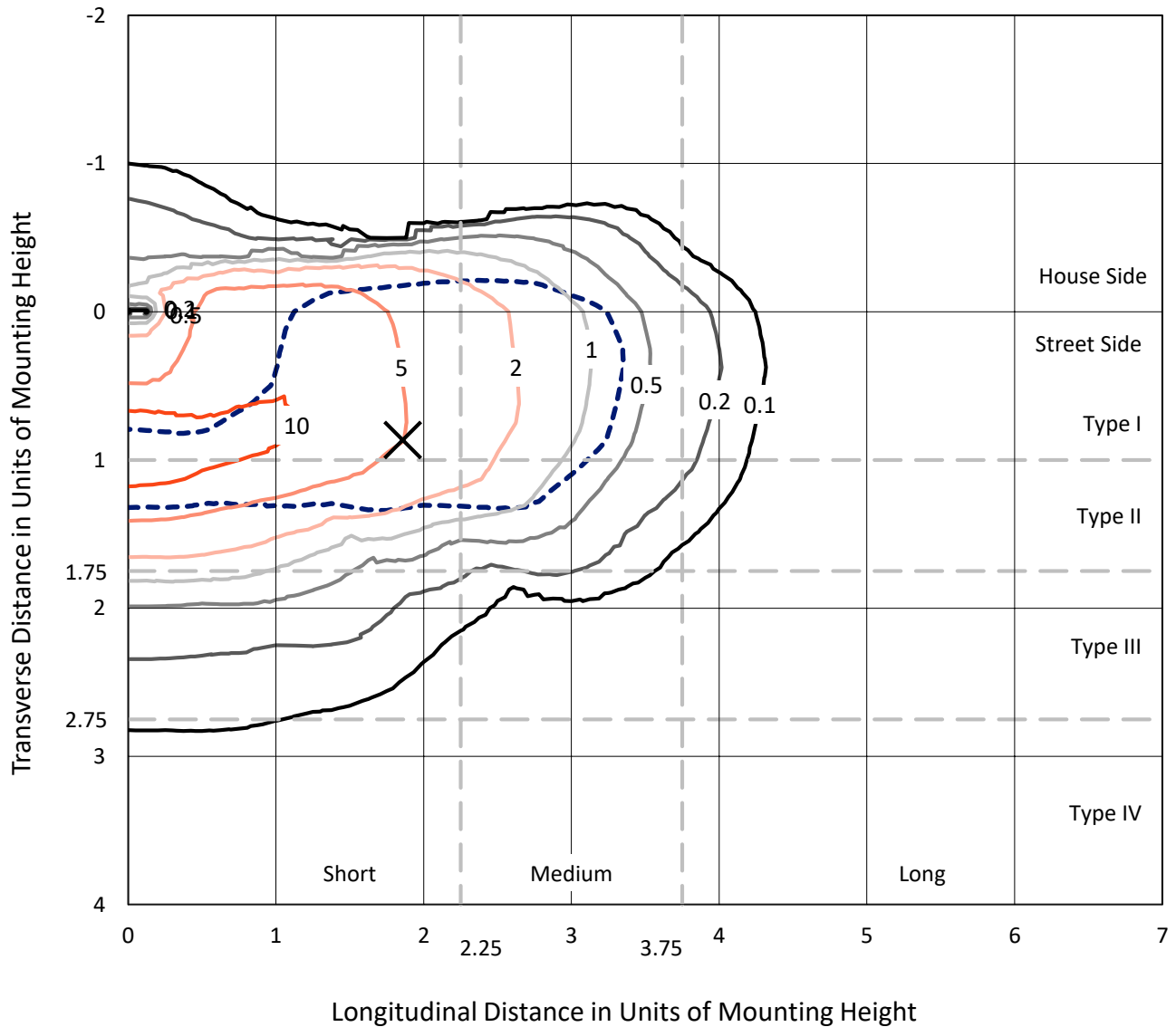


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

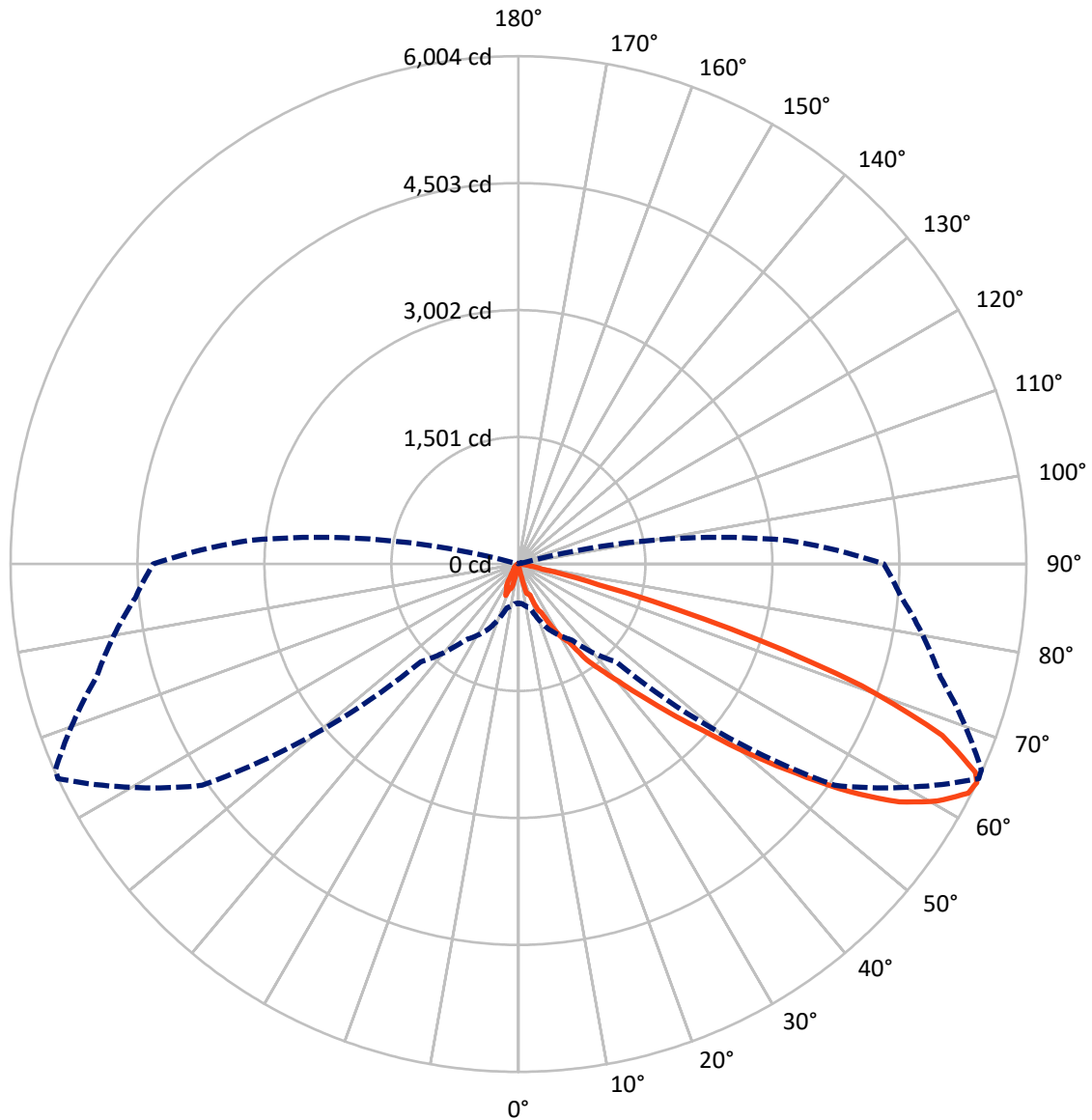


Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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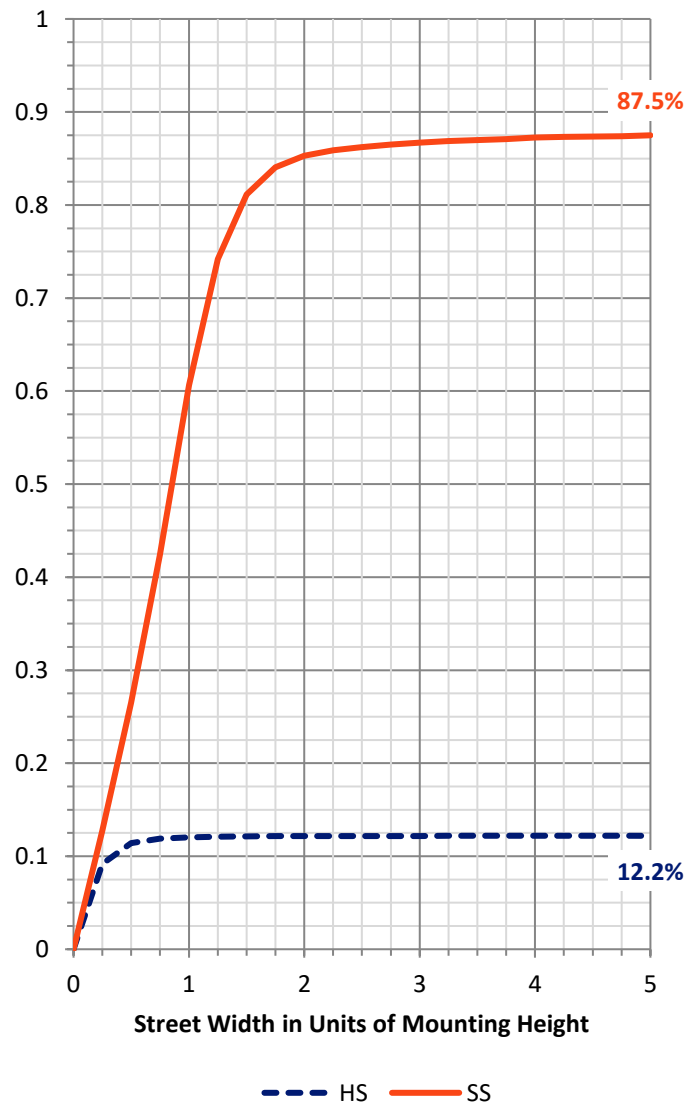
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	745.9	0.0	745.9
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5304.8	0.0	5304.8
	% Fixture	87.7	0.0	87.7
Total	Lumens	6050.7	0.0	6050.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	60.5	1.0
20°-30°	205.3	3.4
30°-40°	576.2	9.5
40°-50°	1337.9	22.1
50°-60°	1870.1	30.9
60°-70°	1475.2	24.4
70°-80°	494.0	8.2
80°-90°	26.9	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°	6050.7	100.0
0°-180°	6050.7	100.0



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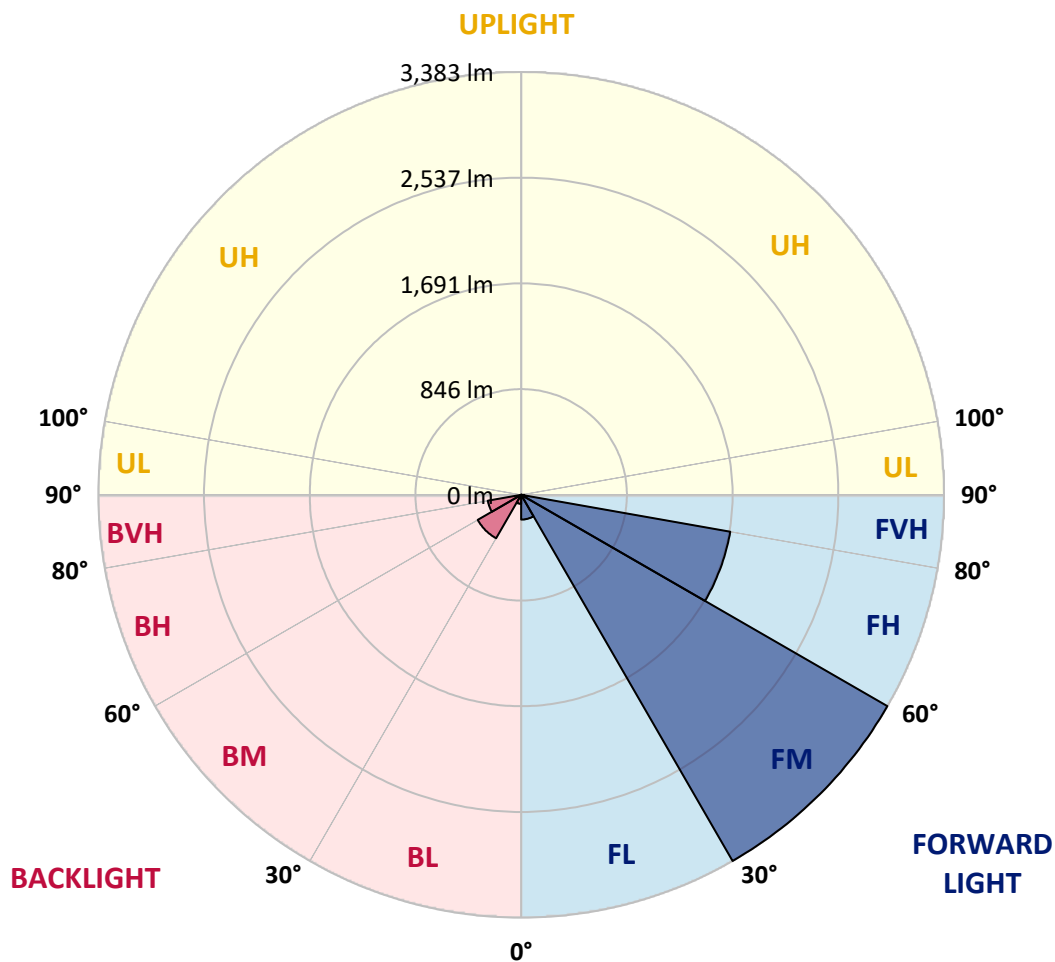
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	198.3	3.3			
FM	(30°-60°)	3382.6	55.9			
FH	(60°-80°)	1698.3	28.1			G1/1800
FVH	(80°-90°)	25.6	0.4			G1/100
BL	(0°-30°)	72.2	1.2	B0/110		
BM	(30°-60°)	401.5	6.6	B1/1000		
BH	(60°-80°)	270.9	4.5	B1/500		G1/500
BVH	(80°-90°)	1.3	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°	119.2	49.5	37.3	23.2	7.1	2.0	1.0	0.0	0.0	0.0	0.0
7.5°	171.8	170.7	170.7	172.7	174.7	159.6	12.1	1.0	0.0	0.0	0.0
10°	163.7	162.6	162.6	165.6	168.7	171.8	172.7	6.0	4.0	0.0	0.0
12.5°	327.2	325.3	313.1	186.9	168.7	169.7	173.7	118.2	70.7	26.3	125.2
15°	322.2	321.2	322.2	329.3	329.3	175.7	262.6	354.6	353.5	230.3	269.6
17.5°	330.3	325.3	323.3	328.3	336.3	388.9	384.8	372.8	373.7	244.5	276.8
20°	475.8	476.8	483.9	369.7	348.5	491.9	436.4	391.9	397.9	469.7	509.1
22.5°	483.9	482.8	491.9	509.1	600.0	505.0	584.8	587.9	601.0	615.1	546.5
25°	668.7	667.7	546.5	535.3	641.4	566.6	700.0	636.4	647.4	649.5	669.7
27.5°	756.6	747.5	753.5	756.6	676.8	796.0	725.3	840.4	805.1	889.9	849.5
30°	963.6	935.4	865.6	876.8	837.4	848.4	878.8	1004.0	970.7	943.5	928.2
32.5°	1409.1	1391.9	1323.2	1091.9	1016.2	923.2	1066.6	1099.0	1103.0	1290.9	1286.9
35°	2058.6	1937.4	1694.9	1524.2	1217.1	1206.1	1182.8	1388.9	1399.0	1470.7	1469.7
37.5°	2897.9	2873.7	2529.2	1964.6	1608.1	1414.1	1471.7	1592.9	1554.5	1705.1	1707.1
40°	3409.1	3385.9	3107.0	2620.2	2054.5	1777.8	1708.0	1825.3	1760.6	2021.1	1970.7
42.5°	3777.8	3753.5	3550.5	3097.9	2707.0	2393.9	2079.8	2129.3	2087.8	2321.2	2299.0
45°	3997.9	3963.6	3876.7	3492.9	3243.4	3111.1	2616.1	2508.1	2518.2	2697.9	2673.7
47.5°	3985.8	3933.2	3955.5	3721.2	3696.9	3770.7	3283.8	2938.3	3053.5	3149.5	3086.9
50°	3670.7	3629.2	3754.5	3785.8	3993.9	4290.9	3990.8	3511.1	3655.5	3595.0	3464.6
52.5°	3086.9	3094.9	3276.7	3488.9	4045.4	4649.4	4669.7	4110.0	4306.0	3997.9	3808.0
55°	2468.7	2490.9	2689.8	2946.4	3730.3	4766.6	5236.3	4754.5	4925.2	4330.3	4056.5
57.5°	1815.1	1850.5	2100.0	2318.1	3068.6	4467.6	5516.1	5308.0	5410.1	4616.1	4251.5
60°	1075.7	1095.0	1426.2	1742.4	2223.2	3581.8	5505.0	5688.8	5723.2	4912.1	4407.0
62.5°	635.4	645.5	756.6	1175.8	1464.7	2348.5	5085.8	5966.6	5956.5	5100.9	4514.1
64°	463.6	470.7	539.4	853.6	1095.0	1635.3	4560.5	6004.0	5991.8	5164.6	4544.4
65°	387.9	393.9	442.4	673.7	911.1	1250.5	3977.7	5937.3	5929.2	5196.9	4542.4
67.5°	311.1	312.1	326.2	395.0	620.2	656.5	2303.0	5405.0	5380.7	5230.2	4467.6
70°	278.8	282.8	308.1	311.1	453.6	431.3	810.1	4305.0	4252.5	4965.6	4293.8
72.5°	221.2	227.3	267.7	305.0	327.2	323.3	369.7	2625.2	2646.5	3648.5	3598.9
75°	154.6	160.6	202.0	252.6	258.6	236.4	266.7	985.8	972.7	1802.0	2092.9
77.5°	96.0	99.0	126.2	181.8	240.4	156.6	185.9	285.8	306.1	558.5	571.7
80°	63.6	64.7	79.8	120.2	166.6	141.4	111.1	144.4	147.5	175.7	86.8
82.5°	35.4	36.3	50.5	75.8	100.0	125.2	71.7	86.8	92.0	109.0	46.4
85°	12.1	13.1	26.3	42.5	60.6	60.6	46.4	52.5	53.5	68.6	24.2
87.5°	0.0	0.0	6.0	11.2	10.1	4.0	10.1	8.1	7.1	11.2	4.0
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°	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	127.3	140.5	141.4	143.4
10°	0.0	0.0	1.0	1.0	0.0	135.3	143.4	140.5	133.3	131.3	129.3
12.5°	129.3	124.3	17.2	4.0	114.2	141.4	127.3	109.0	92.0	86.8	82.9
15°	266.7	263.6	235.4	258.6	160.6	121.2	89.9	97.0	81.8	76.7	74.8
17.5°	270.7	266.7	251.5	304.0	250.5	123.3	82.9	66.7	60.6	58.6	57.6
20°	514.1	499.0	365.6	299.0	191.9	125.2	63.6	53.5	49.5	54.5	57.6
22.5°	529.3	512.1	441.4	401.0	160.6	81.8	60.6	58.6	61.6	58.6	58.6
25°	667.7	617.1	484.9	329.3	142.4	72.7	68.6	53.5	49.5	47.5	47.5
27.5°	829.3	790.9	669.7	309.1	96.0	76.7	59.6	46.4	51.6	51.6	51.6
30°	886.9	833.3	676.8	270.7	84.8	69.7	50.5	50.5	45.4	43.5	43.5
32.5°	1273.7	1195.9	868.7	189.9	76.7	58.6	50.5	42.5	41.4	44.4	44.4
35°	1419.1	1328.3	846.5	140.5	67.7	53.5	43.5	41.4	39.4	39.4	39.4
37.5°	1613.1	1506.1	776.7	104.0	63.6	45.4	38.4	36.3	37.3	39.4	40.4
40°	1866.7	1737.4	720.2	85.8	54.5	39.4	34.4	35.4	35.4	35.4	35.4
42.5°	2165.6	1986.9	636.4	76.7	46.4	35.4	31.3	31.3	32.3	32.3	32.3
45°	2509.1	2259.6	519.1	67.7	40.4	30.3	28.2	28.2	28.2	27.3	28.2
47.5°	2872.7	2554.5	393.9	59.6	34.4	27.3	25.3	24.2	24.2	23.2	24.2
50°	3234.3	2829.3	287.9	51.6	30.3	24.2	21.2	21.2	21.2	20.2	20.2
52.5°	3523.1	3015.1	204.1	44.4	26.3	21.2	18.2	17.2	17.2	16.2	16.2
55°	3765.6	3126.2	149.5	37.3	23.2	18.2	15.1	14.1	14.1	13.1	14.1
57.5°	3952.5	3195.9	113.1	30.3	20.2	15.1	12.1	11.2	11.2	11.2	11.2
60°	4110.0	3219.1	86.8	25.3	17.2	12.1	10.1	9.1	9.1	8.1	9.1
62.5°	4256.5	3213.1	71.7	22.2	15.1	10.1	8.1	7.1	6.0	5.0	6.0
64°	4319.1	3196.9	64.7	19.2	14.1	9.1	7.1	6.0	5.0	3.1	4.0
65°	4345.4	3171.7	59.6	17.2	13.1	8.1	7.1	6.0	3.1	2.0	3.1
67.5°	4323.2	3041.3	46.4	15.1	10.1	6.0	5.0	4.0	1.0	1.0	2.0
70°	4075.7	2764.6	35.4	13.1	9.1	5.0	4.0	3.1	2.0	1.0	2.0
72.5°	3201.0	1987.9	27.3	10.1	7.1	3.1	4.0	3.1	2.0	1.0	0.0
75°	1717.1	746.4	20.2	8.1	6.0	3.1	3.1	2.0	1.0	1.0	0.0
77.5°	442.4	235.4	14.1	5.0	5.0	2.0	2.0	2.0	1.0	1.0	0.0
80°	68.6	33.3	6.0	4.0	3.1	1.0	2.0	1.0	1.0	2.0	0.0
82.5°	28.2	13.1	4.0	3.1	3.1	0.0	2.0	1.0	1.0	1.0	0.0
85°	7.1	5.0	3.1	2.0	2.0	0.0	1.0	0.0	1.0	1.0	0.0
87.5°	1.0	2.0	2.0	2.0	2.0	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)