

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: P254210

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P254210
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-AF24-100-D-U-T2U-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1200mA 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: 6127.5 lumens
Efficiency: N/A
Efficacy: 63.8 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

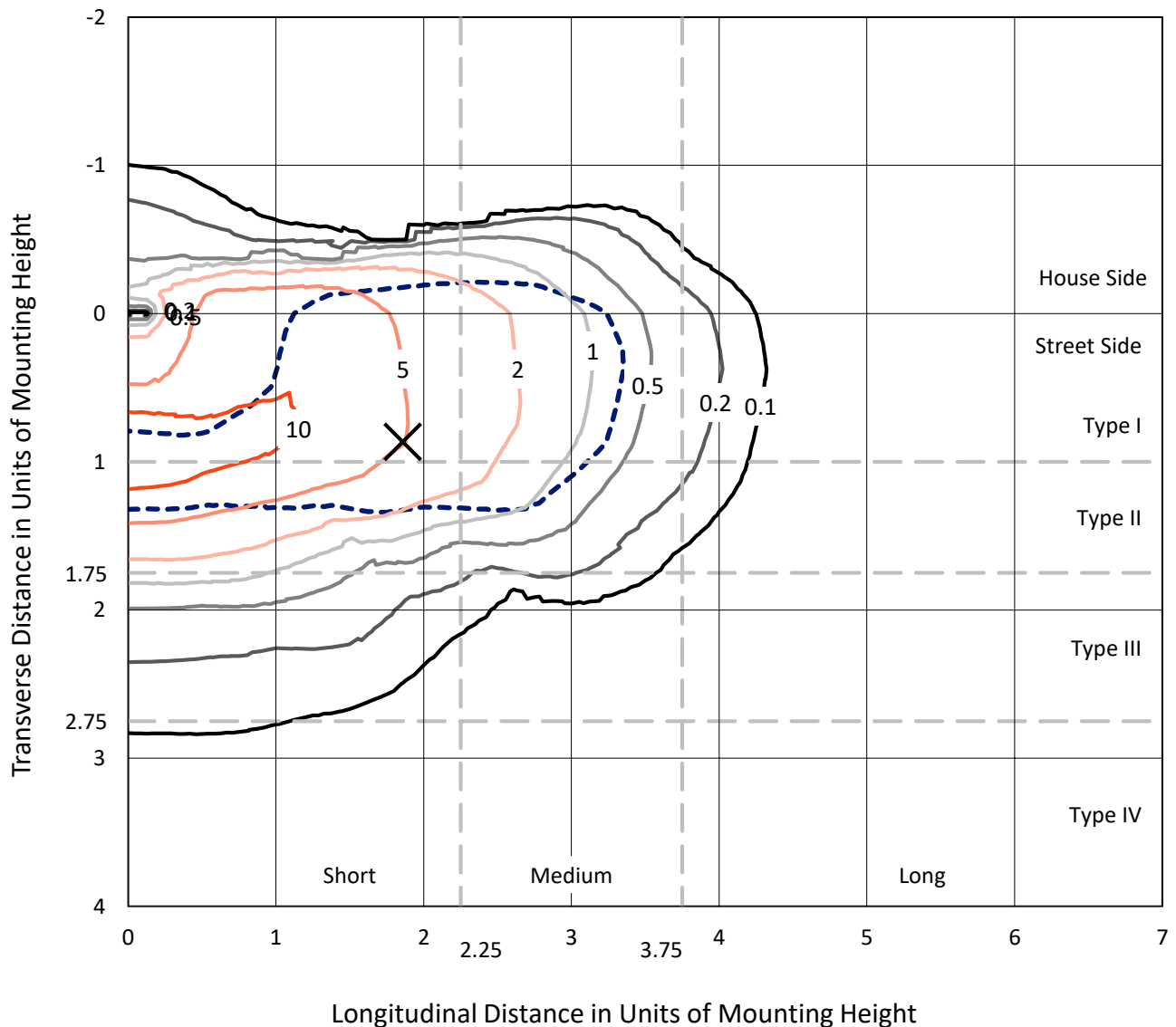
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

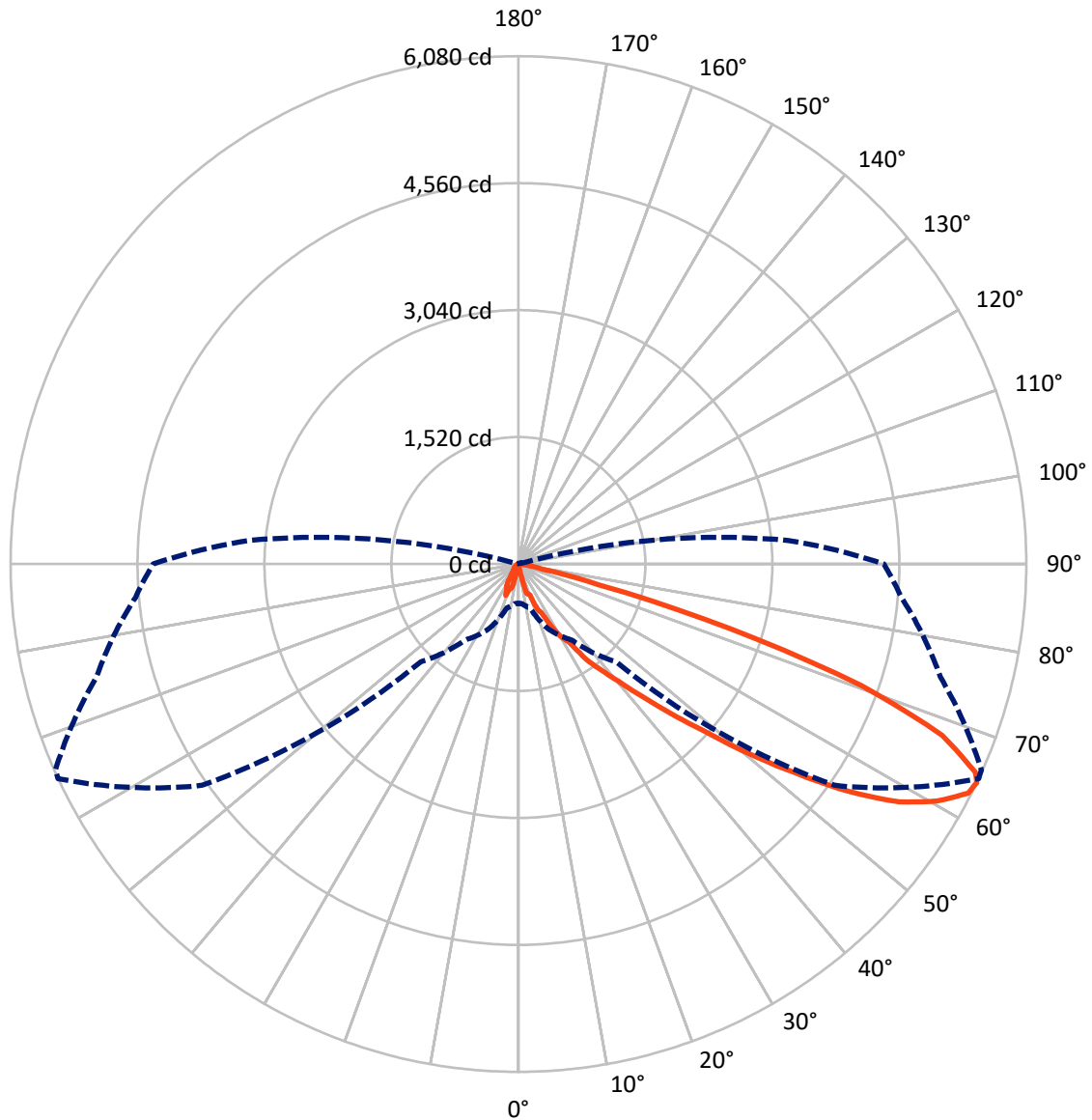
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P254210
CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-HSS

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-HSS

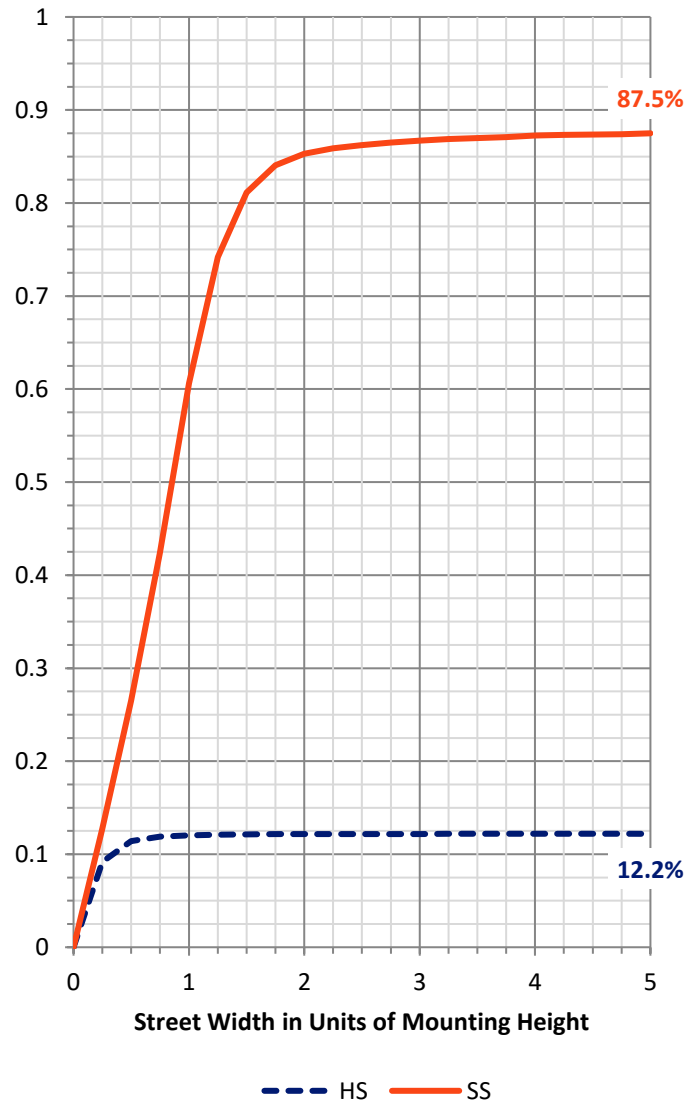
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	755.4	0.0	755.4
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	5372.1	0.0	5372.1
	% Fixture	87.7	0.0	87.7
Total	Lumens	6127.5	0.0	6127.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.7	0.1
10°-20°	61.2	1.0
20°-30°	208.0	3.4
30°-40°	583.5	9.5
40°-50°	1354.9	22.1
50°-60°	1893.8	30.9
60°-70°	1493.9	24.4
70°-80°	500.3	8.2
80°-90°	27.3	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°	6127.5	100.0
0°-180°	6127.5	100.0



REPORT NUMBER: P254210

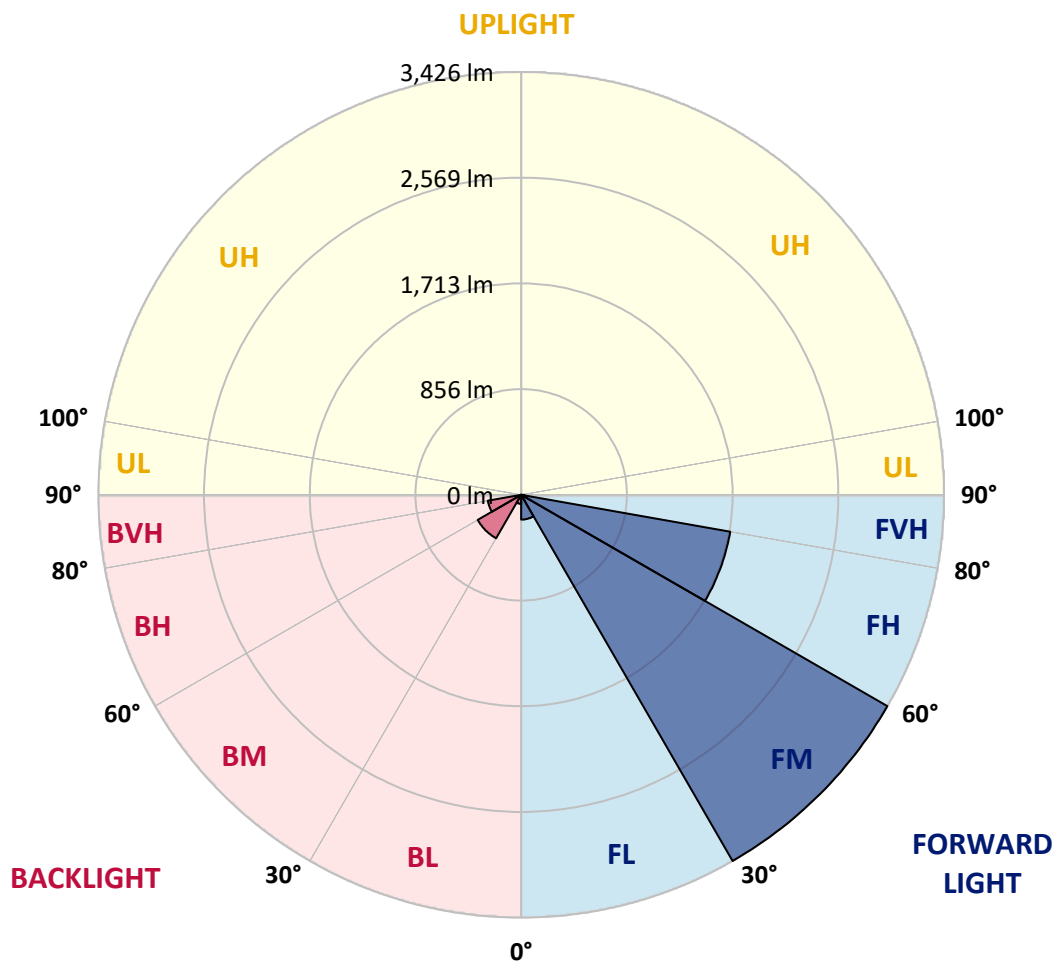
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	200.8	3.3			
FM (30°-60°)	3425.5	55.9			
FH (60°-80°)	1719.9	28.1			G1/1800
FVH (80°-90°)	25.9	0.4			G1/100
BL (0°-30°)	73.1	1.2	B0/110		
BM (30°-60°)	406.6	6.6	B1/1000		
BH (60°-80°)	274.3	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°	120.7	50.1	37.8	23.5	7.2	2.0	1.0	0.0	0.0	0.0	0.0
7.5°	173.9	172.9	172.9	174.9	177.0	161.6	12.3	1.0	0.0	0.0	0.0
10°	165.7	164.7	164.7	167.8	170.8	173.9	174.9	6.1	4.1	0.0	0.0
12.5°	331.4	329.4	317.1	189.2	170.8	171.9	175.9	119.7	71.6	26.6	126.8
15°	326.3	325.3	326.3	333.5	333.5	178.0	266.0	359.1	358.0	233.2	273.1
17.5°	334.5	329.4	327.3	332.5	340.6	393.8	389.7	377.5	378.5	247.6	280.3
20°	481.8	482.8	490.0	374.4	352.9	498.2	441.9	396.9	403.0	475.7	515.6
22.5°	490.0	489.0	498.2	515.6	607.6	511.5	592.3	595.4	608.7	623.0	553.4
25°	677.2	676.2	553.4	542.2	649.6	573.9	708.9	644.5	655.7	657.8	678.2
27.5°	766.2	757.0	763.1	766.2	685.4	806.1	734.5	851.1	815.3	901.2	860.3
30°	975.8	947.3	876.7	887.9	848.0	859.3	890.0	1016.7	983.0	955.4	940.1
32.5°	1426.9	1409.5	1340.0	1105.7	1029.0	935.0	1080.1	1112.9	1117.0	1307.2	1303.1
35°	2084.7	1961.9	1716.4	1543.5	1232.6	1221.3	1197.8	1406.5	1416.7	1489.3	1488.3
37.5°	2934.6	2910.1	2561.4	1989.5	1628.4	1432.0	1490.3	1613.1	1574.2	1726.6	1728.7
40°	3452.3	3428.7	3146.4	2653.4	2080.6	1800.3	1729.7	1848.4	1782.9	2046.8	1995.7
42.5°	3825.6	3801.1	3595.5	3137.2	2741.4	2424.3	2106.2	2156.3	2114.3	2350.6	2328.1
45°	4048.6	4013.9	3925.9	3537.2	3284.5	3150.5	2649.3	2539.9	2550.1	2732.2	2707.6
47.5°	4036.4	3983.2	4005.7	3768.3	3743.8	3818.5	3325.4	2975.6	3092.2	3189.4	3125.9
50°	3717.2	3675.3	3802.1	3833.8	4044.5	4345.3	4041.5	3555.6	3701.9	3640.5	3508.5
52.5°	3125.9	3134.1	3318.2	3533.1	4096.7	4708.4	4728.9	4162.2	4360.6	4048.6	3856.3
55°	2500.0	2522.5	2724.0	2983.7	3777.6	4827.0	5302.7	4814.7	4987.6	4385.2	4108.0
57.5°	1838.1	1873.9	2126.6	2347.6	3107.5	4524.3	5586.0	5375.3	5478.6	4674.7	4305.4
60°	1089.3	1108.8	1444.3	1764.5	2251.4	3627.2	5574.8	5761.0	5795.7	4974.3	4462.9
62.5°	643.4	653.7	766.2	1190.6	1483.2	2378.3	5150.3	6042.3	6032.0	5165.6	4571.4
64°	469.5	476.7	546.3	864.4	1108.8	1656.1	4618.4	6080.1	6067.8	5230.0	4602.1
65°	392.8	399.0	448.1	682.3	922.7	1266.3	4028.2	6012.6	6004.4	5262.8	4600.0
67.5°	315.1	316.1	330.4	400.0	628.1	664.9	2332.2	5473.5	5449.0	5296.5	4524.3
70°	282.3	286.4	312.0	315.1	459.3	436.8	820.4	4359.6	4306.4	5028.5	4348.4
72.5°	224.0	230.2	271.1	308.9	331.4	327.3	374.4	2658.5	2680.0	3694.7	3644.6
75°	156.5	162.6	204.6	255.7	261.9	239.4	270.1	998.3	985.0	1824.8	2119.5
77.5°	97.2	100.2	127.9	184.1	243.5	158.6	188.2	289.5	310.0	565.7	579.0
80°	64.4	65.5	80.8	121.7	168.8	143.2	112.5	146.3	149.4	178.0	88.0
82.5°	35.8	36.8	51.1	76.7	101.3	126.8	72.6	88.0	93.1	110.5	47.1
85°	12.3	13.3	26.6	43.0	61.4	61.4	47.1	53.2	54.2	69.6	24.6
87.5°	0.0	0.0	6.1	11.3	10.2	4.1	10.2	8.2	7.2	11.3	4.1
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: P254210

CATALOG NUMBER: LXF.LXT-AF24-100-D-U-T2U-HSS

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	128.9	142.2	143.2	145.3
10°	0.0	0.0	1.0	1.0	0.0	137.1	145.3	142.2	135.0	133.0	130.9
12.5°	130.9	125.8	17.4	4.1	115.6	143.2	128.9	110.5	93.1	88.0	83.9
15°	270.1	267.0	238.3	261.9	162.6	122.8	91.0	98.2	82.9	77.7	75.7
17.5°	274.2	270.1	254.7	307.9	253.7	124.8	83.9	67.5	61.4	59.3	58.3
20°	520.7	505.3	370.3	302.8	194.4	126.8	64.4	54.2	50.1	55.2	58.3
22.5°	536.0	518.6	447.0	406.1	162.6	82.9	61.4	59.3	62.4	59.3	59.3
25°	676.2	625.0	491.0	333.5	144.2	73.7	69.6	54.2	50.1	48.1	48.1
27.5°	839.8	801.0	678.2	313.0	97.2	77.7	60.4	47.1	52.2	52.2	52.2
30°	898.2	843.9	685.4	274.2	85.9	70.6	51.1	51.1	46.0	44.0	44.0
32.5°	1289.8	1211.1	879.7	192.3	77.7	59.3	51.1	43.0	41.9	45.0	45.0
35°	1437.1	1345.1	857.2	142.2	68.5	54.2	44.0	41.9	39.9	39.9	39.9
37.5°	1633.6	1525.1	786.6	105.4	64.4	46.0	38.9	36.8	37.8	39.9	40.9
40°	1890.3	1759.4	729.4	87.0	55.2	39.9	34.8	35.8	35.8	35.8	35.8
42.5°	2193.1	2012.0	644.5	77.7	47.1	35.8	31.7	31.7	32.7	32.7	32.7
45°	2540.9	2288.2	525.8	68.5	40.9	30.7	28.6	28.6	28.6	27.6	28.6
47.5°	2909.1	2586.9	399.0	60.4	34.8	27.6	25.6	24.6	24.6	23.5	24.6
50°	3275.3	2865.2	291.5	52.2	30.7	24.6	21.5	21.5	21.5	20.5	20.5
52.5°	3567.8	3053.3	206.6	45.0	26.6	21.5	18.4	17.4	17.4	16.4	16.4
55°	3813.4	3165.8	151.4	37.8	23.5	18.4	15.3	14.3	14.3	13.3	14.3
57.5°	4002.6	3236.4	114.6	30.7	20.5	15.3	12.3	11.3	11.3	11.3	11.3
60°	4162.2	3259.9	88.0	25.6	17.4	12.3	10.2	9.2	9.2	8.2	9.2
62.5°	4310.5	3253.8	72.6	22.5	15.3	10.2	8.2	7.2	6.1	5.1	6.1
64°	4373.9	3237.4	65.5	19.4	14.3	9.2	7.2	6.1	5.1	3.1	4.1
65°	4400.5	3211.9	60.4	17.4	13.3	8.2	7.2	6.1	3.1	2.0	3.1
67.5°	4378.0	3079.9	47.1	15.3	10.2	6.1	5.1	4.1	1.0	1.0	2.0
70°	4127.4	2799.7	35.8	13.3	9.2	5.1	4.1	3.1	2.0	1.0	2.0
72.5°	3241.5	2013.1	27.6	10.2	7.2	3.1	4.1	3.1	2.0	1.0	0.0
75°	1738.9	756.0	20.5	8.2	6.1	3.1	3.1	2.0	1.0	1.0	0.0
77.5°	448.1	238.3	14.3	5.1	5.1	2.0	2.0	2.0	1.0	1.0	0.0
80°	69.6	33.8	6.1	4.1	3.1	1.0	2.0	1.0	1.0	2.0	0.0
82.5°	28.6	13.3	4.1	3.1	3.1	0.0	2.0	1.0	1.0	1.0	0.0
85°	7.2	5.1	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)