

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: P266209

Luminaire Tested: **LXF.LXT-AF24-90-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266209  
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-7027-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 70 CRI, 2700K, 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: 5139 lumens  
Efficiency: N/A  
Efficacy: 54.7 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

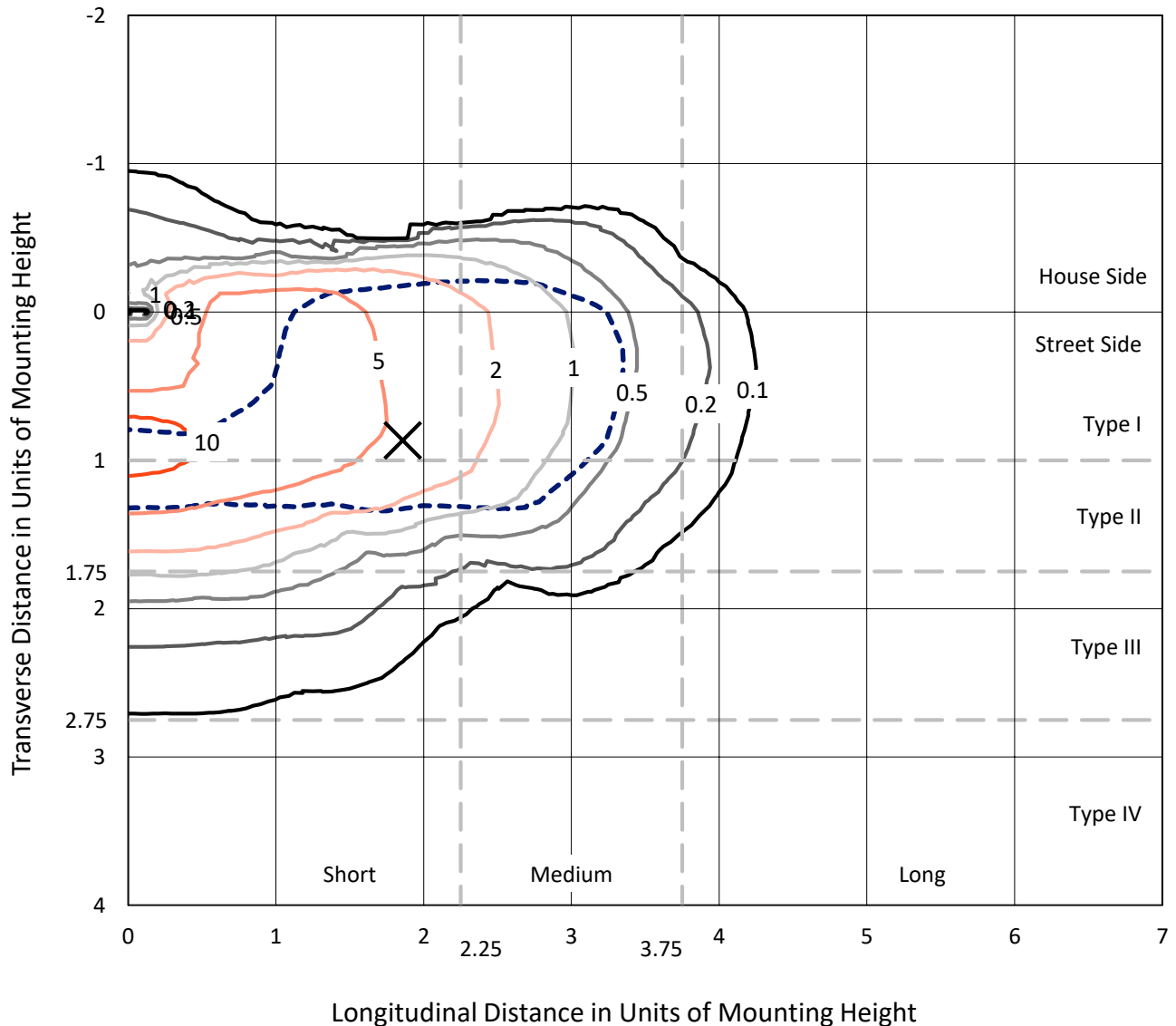


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

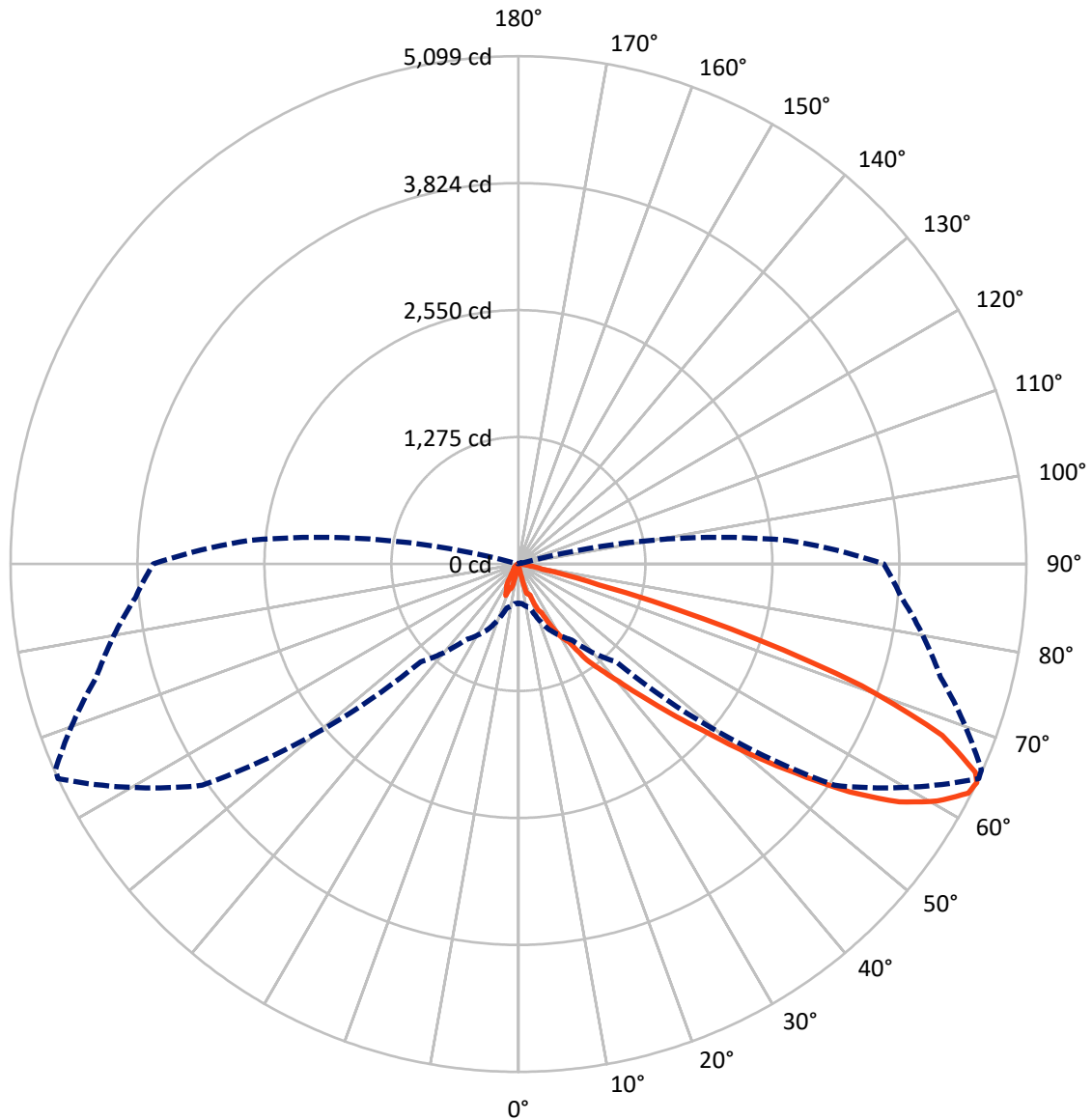


Based on 10 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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



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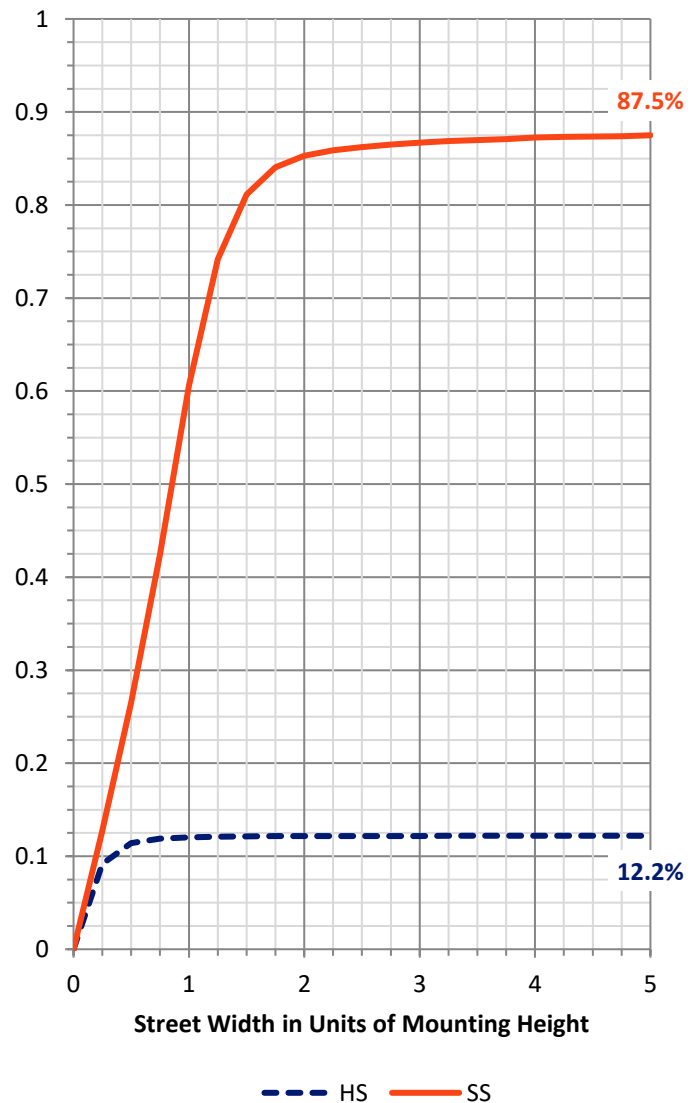
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	633.5	0.0	633.5
	% Fixture	12.3	0.0	12.3
<b>Street Side</b>	Lumens	4505.5	0.0	4505.5
	% Fixture	87.7	0.0	87.7
<b>Total</b>	Lumens	5139.0	0.0	5139.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.0	0.1
10°-20°	51.3	1.0
20°-30°	174.4	3.4
30°-40°	489.4	9.5
40°-50°	1136.3	22.1
50°-60°	1588.3	30.9
60°-70°	1252.9	24.4
70°-80°	419.6	8.2
80°-90°	22.8	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°	5139.0	100.0
0°-180°	5139.0	100.0

**Coefficient of Utilization**



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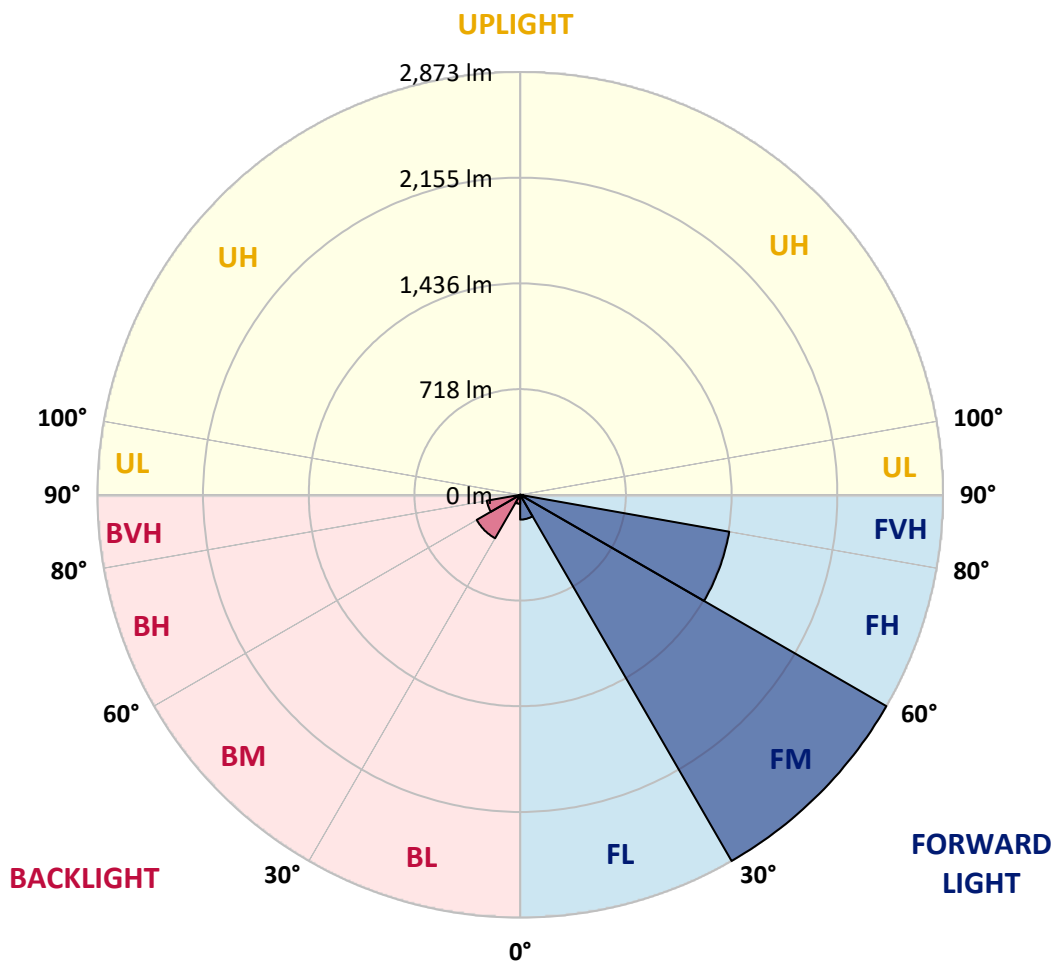
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.4	3.3			
FM (30°-60°)	2873.0	55.9			
FH (60°-80°)	1442.4	28.1			G1/1800
FVH (80°-90°)	21.7	0.4			G1/100
BL (0°-30°)	61.3	1.2	B0/110		
BM (30°-60°)	341.0	6.6	B1/1000		
BH (60°-80°)	230.0	4.5	B1/500		G1/500
BVH (80°-90°)	1.1	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°	101.1	42.0	31.7	19.8	6.0	1.6	0.9	0.0	0.0	0.0	0.0
7.5°	145.9	144.9	144.9	146.8	148.4	135.6	10.3	0.9	0.0	0.0	0.0
10°	139.0	138.1	138.1	140.7	143.3	145.9	146.8	5.1	3.5	0.0	0.0
12.5°	277.9	276.3	266.0	158.7	143.3	144.1	147.5	100.4	60.0	22.3	106.4
15°	273.7	272.8	273.7	279.6	279.6	149.3	223.0	301.1	300.3	195.7	229.1
17.5°	280.5	276.3	274.5	278.8	285.8	330.2	326.9	316.6	317.5	207.6	235.0
20°	404.1	405.0	411.0	314.0	296.0	417.8	370.6	332.8	338.0	398.8	432.4
22.5°	411.0	410.0	417.8	432.4	509.6	428.9	496.8	499.3	510.4	522.5	464.2
25°	567.9	567.1	464.2	454.7	544.7	481.3	594.5	540.5	549.9	551.6	568.7
27.5°	642.6	634.8	640.0	642.6	574.7	676.1	616.0	713.8	683.7	755.8	721.5
30°	818.4	794.5	735.3	744.7	711.2	720.6	746.3	852.8	824.5	801.3	788.4
32.5°	1196.7	1182.2	1123.8	927.4	863.0	784.1	905.9	933.3	936.8	1096.4	1093.0
35°	1748.5	1645.4	1439.5	1294.5	1033.8	1024.2	1004.6	1179.7	1188.2	1249.2	1248.3
37.5°	2461.3	2440.7	2148.1	1668.6	1365.8	1201.0	1249.9	1352.8	1320.2	1448.1	1449.9
40°	2895.3	2875.7	2639.0	2225.5	1745.0	1510.0	1450.8	1550.2	1495.3	1716.7	1673.7
42.5°	3208.4	3187.9	3015.5	2631.1	2299.1	2033.3	1766.3	1808.5	1773.3	1971.4	1952.6
45°	3395.6	3366.4	3292.6	2966.7	2754.7	2642.4	2222.0	2130.2	2138.8	2291.4	2270.8
47.5°	3385.3	3340.6	3359.5	3160.4	3139.8	3202.5	2789.0	2495.6	2593.3	2675.0	2621.8
50°	3117.6	3082.4	3188.8	3215.4	3392.1	3644.3	3389.6	2982.1	3104.7	3053.2	2942.6
52.5°	2621.8	2628.6	2782.9	2963.1	3435.8	3948.9	3966.0	3490.8	3657.2	3395.6	3234.3
55°	2096.6	2115.6	2284.6	2502.5	3168.2	4048.4	4447.2	4038.2	4183.0	3677.8	3445.3
57.5°	1541.6	1571.7	1783.6	1968.8	2606.3	3794.4	4684.9	4508.2	4594.9	3920.6	3610.8
60°	913.7	929.9	1211.4	1479.9	1888.1	3042.1	4675.5	4831.7	4860.8	4171.9	3743.0
62.5°	539.6	548.1	642.6	998.6	1244.0	1994.5	4319.5	5067.6	5059.0	4332.3	3833.8
64°	393.7	399.7	458.1	724.9	929.9	1388.9	3873.4	5099.3	5089.0	4386.5	3859.7
65°	329.4	334.6	375.8	572.2	773.8	1062.1	3378.3	5042.6	5035.8	4413.8	3858.0
67.5°	264.2	265.1	277.0	335.4	526.8	557.6	1956.0	4590.6	4569.9	4442.2	3794.4
70°	236.8	240.1	261.6	264.2	385.3	366.2	688.0	3656.3	3611.7	4217.5	3646.8
72.5°	187.8	193.0	227.4	259.2	277.9	274.5	314.0	2229.7	2247.6	3098.8	3056.7
75°	131.2	136.5	171.5	214.4	219.6	200.7	226.6	837.3	826.1	1530.5	1777.6
77.5°	81.4	84.1	107.3	154.4	204.2	132.9	157.8	242.8	259.9	474.5	485.5
80°	54.1	54.8	67.8	102.0	141.6	120.2	94.3	122.7	125.3	149.3	73.8
82.5°	30.1	30.9	42.8	64.4	84.9	106.4	60.9	73.8	78.1	92.6	39.4
85°	10.3	11.1	22.3	36.0	51.5	51.5	39.4	44.6	45.5	58.3	20.7
87.5°	0.0	0.0	5.1	9.4	8.5	3.5	8.5	6.8	6.0	9.4	3.5
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	0.9	0.0	0.0	0.0	0.0	108.1	119.3	120.2	121.8
10°	0.0	0.0	0.9	0.9	0.0	115.0	121.8	119.3	113.2	111.5	109.9
12.5°	109.9	105.6	14.6	3.5	96.9	120.2	108.1	92.6	78.1	73.8	70.3
15°	226.6	223.9	200.0	219.6	136.5	102.9	76.4	82.4	69.4	65.1	63.5
17.5°	230.0	226.6	213.5	258.3	212.8	104.7	70.3	56.7	51.5	49.8	48.9
20°	436.7	423.8	310.5	254.0	163.0	106.4	54.1	45.5	42.0	46.4	48.9
22.5°	449.5	435.0	375.0	340.5	136.5	69.4	51.5	49.8	52.3	49.8	49.8
25°	567.1	524.3	411.9	279.6	120.9	61.8	58.3	45.5	42.0	40.3	40.3
27.5°	704.4	671.8	568.7	262.6	81.4	65.1	50.7	39.4	43.7	43.7	43.7
30°	753.1	707.8	574.7	230.0	72.0	59.2	42.8	42.8	38.5	36.9	36.9
32.5°	1081.7	1015.8	737.8	161.2	65.1	49.8	42.8	36.0	35.2	37.8	37.8
35°	1205.3	1128.1	719.0	119.3	57.5	45.5	36.9	35.2	33.4	33.4	33.4
37.5°	1370.0	1279.0	659.7	88.4	54.1	38.5	32.6	30.9	31.7	33.4	34.3
40°	1585.4	1475.6	611.7	72.9	46.4	33.4	29.1	30.1	30.1	30.1	30.1
42.5°	1839.3	1687.5	540.5	65.1	39.4	30.1	26.6	26.6	27.5	27.5	27.5
45°	2131.0	1919.0	441.0	57.5	34.3	25.7	24.1	24.1	24.1	23.1	24.1
47.5°	2439.8	2169.5	334.6	50.7	29.1	23.1	21.5	20.7	20.7	19.8	20.7
50°	2746.9	2403.0	244.5	43.7	25.7	20.7	18.1	18.1	18.1	17.2	17.2
52.5°	2992.3	2560.8	173.4	37.8	22.3	18.1	15.5	14.6	14.6	13.7	13.7
55°	3198.2	2655.2	127.0	31.7	19.8	15.5	12.8	11.9	11.9	11.1	11.9
57.5°	3357.0	2714.4	96.1	25.7	17.2	12.8	10.3	9.4	9.4	9.4	9.4
60°	3490.8	2734.1	73.8	21.5	14.6	10.3	8.5	7.7	7.7	6.8	7.7
62.5°	3615.1	2729.0	60.9	18.9	12.8	8.5	6.8	6.0	5.1	4.3	5.1
64°	3668.4	2715.2	54.8	16.3	11.9	7.7	6.0	5.1	4.3	2.5	3.5
65°	3690.6	2693.7	50.7	14.6	11.1	6.8	6.0	5.1	2.5	1.6	2.5
67.5°	3671.7	2583.0	39.4	12.8	8.5	5.1	4.3	3.5	0.9	0.9	1.6
70°	3461.6	2348.0	30.1	11.1	7.7	4.3	3.5	2.5	1.6	0.9	1.6
72.5°	2718.6	1688.4	23.1	8.5	6.0	2.5	3.5	2.5	1.6	0.9	0.0
75°	1458.4	633.9	17.2	6.8	5.1	2.5	2.5	1.6	0.9	0.9	0.0
77.5°	375.8	200.0	11.9	4.3	4.3	1.6	1.6	1.6	0.9	0.9	0.0
80°	58.3	28.2	5.1	3.5	2.5	0.9	1.6	0.9	0.9	1.6	0.0
82.5°	24.1	11.1	3.5	2.5	2.5	0.0	1.6	0.9	0.9	0.9	0.0
85°	6.0	4.3	2.5	1.6	1.6	0.0	0.9	0.0	0.9	0.9	0.0
87.5°	0.9	1.6	1.6	1.6	1.6	0.0	0.9	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)