

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: P416991

Luminaire Tested: **LXF.LXT-PA1-80-830-U-T4W-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416991
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1907-433-27)
Test Lab: INNOVATION CENTER
Issue Date: 10/26/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: LXF.LXT-PA1-80-830-U-T4W-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5487 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type IV - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

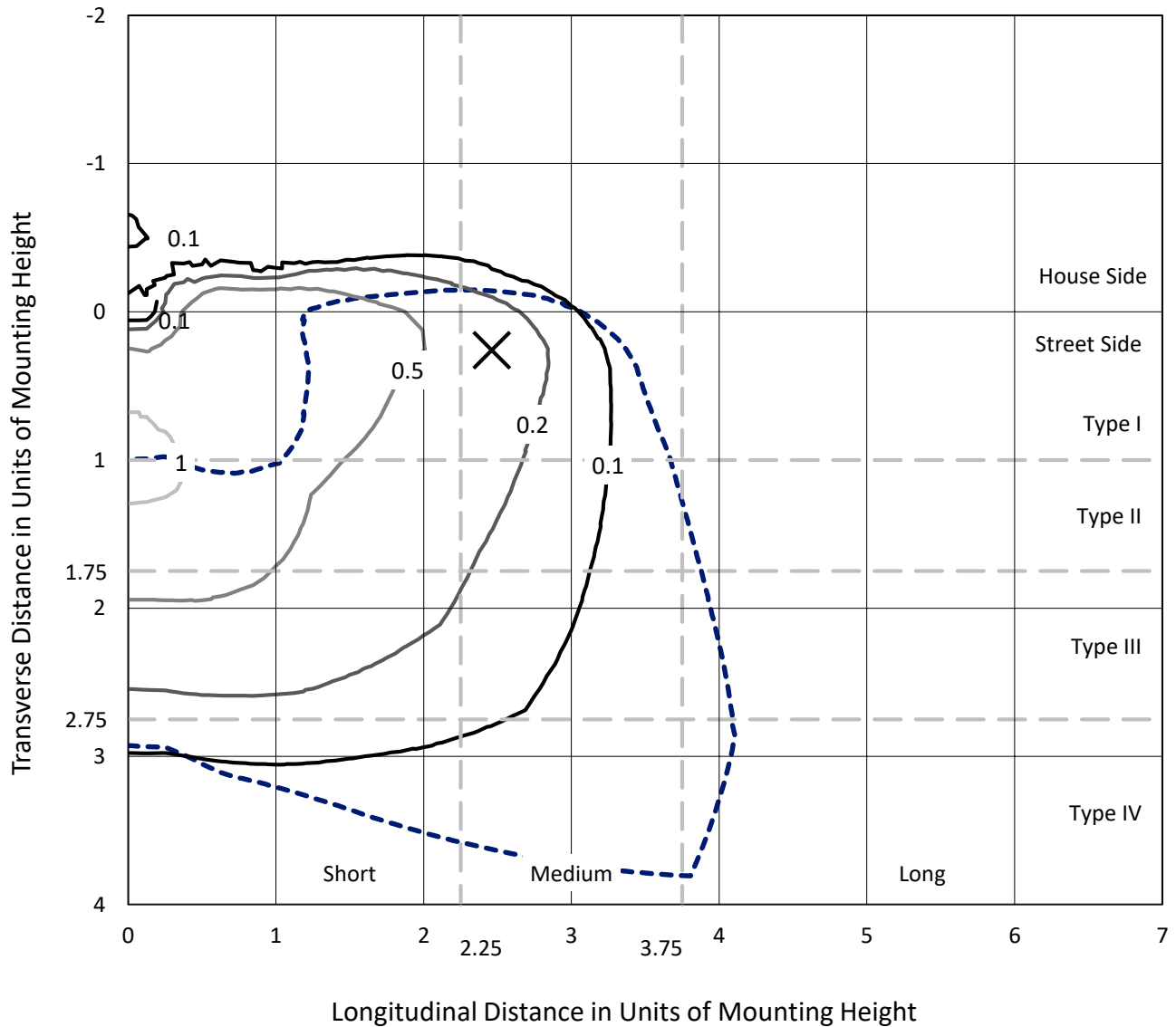
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

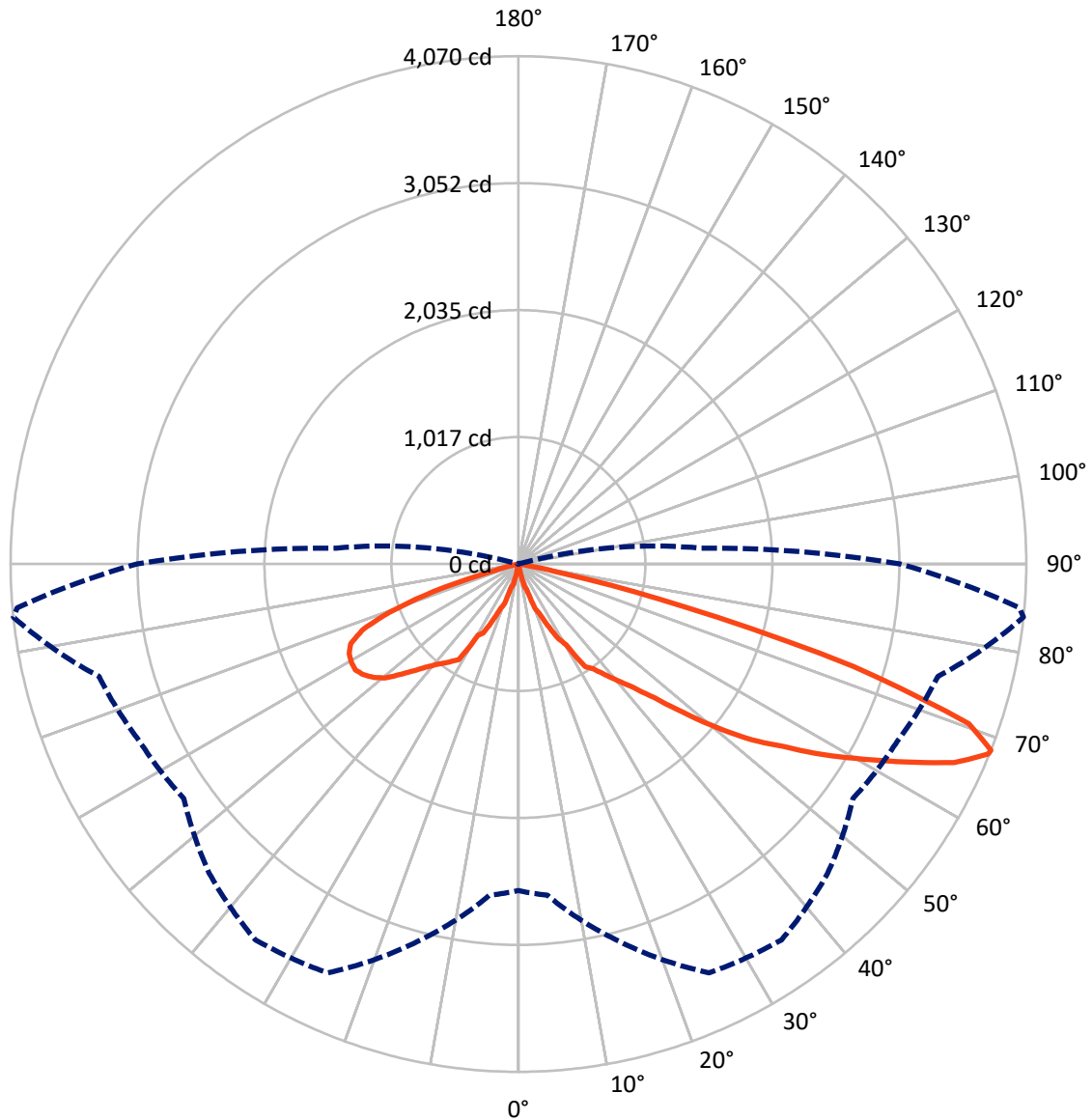
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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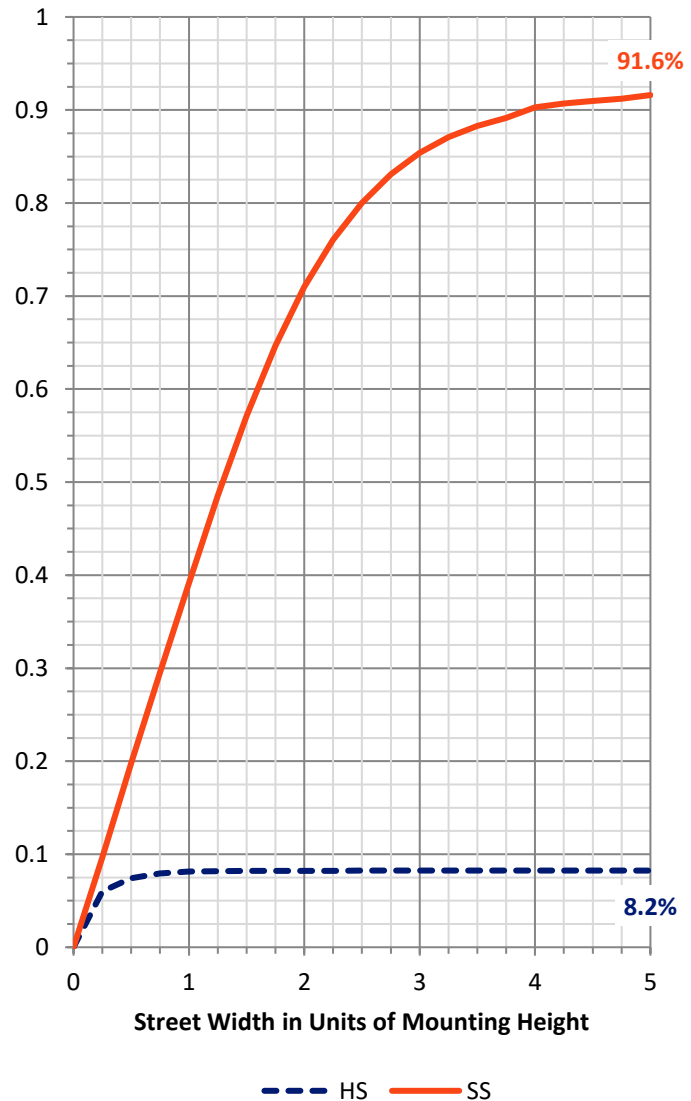
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	456.0	0.0	456.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	5031.0	0.0	5031.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	5487.0	0.0	5487.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.1
10°-20°	49.7	0.9
20°-30°	177.9	3.2
30°-40°	379.9	6.9
40°-50°	678.9	12.4
50°-60°	1204.6	22.0
60°-70°	1731.2	31.6
70°-80°	1165.4	21.2
80°-90°	95.8	1.7
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°	5487.0	100.0
0°-180°	5487.0	100.0



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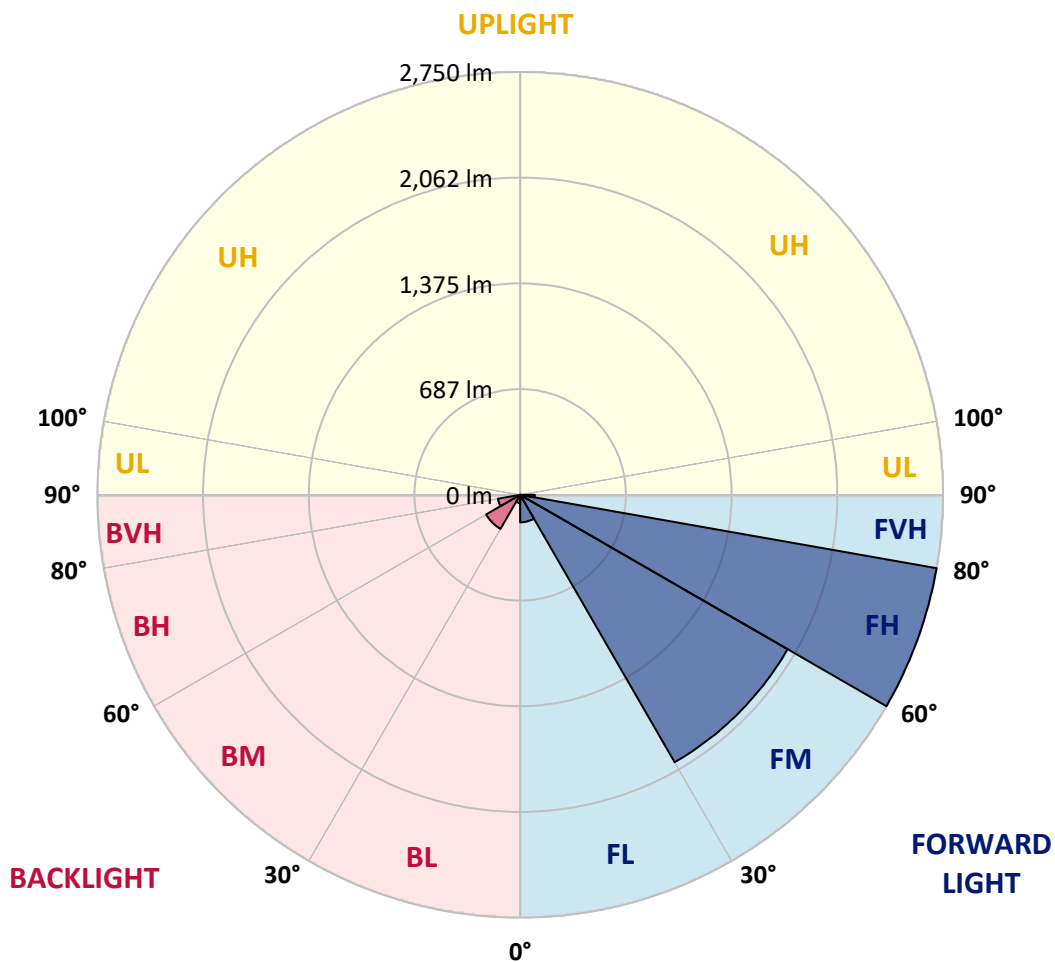
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	178.9	3.3			
FM	(30°-60°)	2008.0	36.6			
FH	(60°-80°)	2749.8	50.1			G2/5000
FVH	(80°-90°)	94.3	1.7			G1/100
BL	(0°-30°)	52.3	1.0	B0/110		
BM	(30°-60°)	255.5	4.7	B1/1000		
BH	(60°-80°)	146.8	2.7	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.0	0.8	0.8	1.6	1.6	2.4	2.4	2.4	2.4
5°	42.1	35.8	35.0	31.0	22.3	5.6	1.6	2.4	2.4	2.4	2.4
7.5°	151.0	148.6	147.0	143.8	140.7	108.1	21.5	2.4	2.4	2.4	2.4
10°	162.1	158.9	156.6	152.6	147.8	142.3	135.9	17.5	2.4	2.4	2.4
12.5°	335.4	331.4	229.7	189.9	156.6	148.6	143.8	74.7	69.1	78.7	89.8
15°	352.8	349.7	340.9	329.8	296.4	167.7	225.7	280.5	182.8	194.7	194.7
17.5°	393.4	387.0	356.8	340.1	326.6	359.2	329.8	300.4	197.1	209.0	209.0
20°	550.7	549.1	540.4	377.5	343.3	454.6	359.2	320.3	364.0	379.9	361.6
22.5°	555.5	553.9	547.5	526.1	539.6	467.3	515.8	484.0	496.7	433.9	430.7
25°	736.7	730.3	584.9	535.6	608.7	498.3	613.5	534.0	524.5	542.0	542.0
27.5°	750.2	748.6	743.8	712.8	624.6	705.7	631.8	691.4	704.9	669.9	688.2
30°	854.3	801.9	774.0	755.8	735.9	740.7	737.5	795.5	734.3	748.6	740.7
32.5°	994.2	989.4	975.1	805.8	817.7	773.2	859.9	851.1	949.7	980.7	975.9
35°	1188.9	1112.6	1019.6	932.2	848.7	918.7	888.5	990.2	1014.8	1029.1	1058.5
37.5°	1359.7	1335.1	1248.5	988.6	940.1	945.7	1016.4	1060.9	1097.5	1122.9	1135.6
40°	1516.3	1498.0	1440.0	1155.5	989.4	1026.8	1084.8	1109.4	1181.7	1228.6	1229.4
42.5°	1748.3	1759.5	1705.4	1306.5	1122.9	1140.4	1189.7	1193.6	1258.0	1351.8	1355.0
45°	2038.4	2023.3	2009.8	1525.8	1250.1	1238.9	1307.3	1297.7	1397.1	1529.0	1544.9
47.5°	2318.1	2296.7	2260.1	1778.5	1426.5	1349.4	1444.8	1452.7	1607.7	1776.2	1782.5
50°	2534.3	2526.3	2489.8	2072.6	1660.9	1502.0	1597.3	1691.1	1855.6	2058.3	2071.8
52.5°	2772.7	2754.4	2690.1	2348.3	1962.1	1731.6	1780.1	1944.6	2117.1	2339.6	2338.0
55°	2931.6	2934.0	2872.8	2629.7	2235.5	1991.5	2010.6	2263.3	2355.5	2582.8	2599.5
57.5°	3143.0	3125.5	3142.2	2960.3	2605.8	2255.4	2299.9	2518.4	2601.0	2881.6	2892.7
60°	3300.4	3306.7	3389.4	3265.4	2892.7	2524.0	2562.1	2726.6	2845.8	3174.0	3209.0
62.5°	3305.9	3340.1	3562.6	3571.4	3203.4	2814.8	2790.2	2939.6	3044.5	3491.9	3534.0
65°	3003.2	3023.8	3525.3	3652.4	3491.9	3100.1	3007.1	3119.2	3240.8	3836.0	3844.0
67.5°	2699.6	2705.9	3189.9	3628.6	3665.1	3442.6	3238.4	3315.5	3433.1	4062.5	4034.7
68°	2616.9	2664.6	3131.9	3615.1	3676.3	3504.6	3273.4	3352.8	3480.0	4069.7	4030.7
70°	2372.2	2423.0	2853.0	3464.1	3670.7	3738.3	3464.9	3476.0	3509.4	3829.7	3704.9
72.5°	1595.0	1629.1	2257.7	2948.3	3551.5	4010.0	3678.7	3402.9	3148.6	2807.7	2697.2
75°	613.5	617.5	1138.0	2026.5	3070.7	3874.2	3453.0	2868.9	2138.5	1366.9	1283.4
77.5°	228.9	224.9	329.8	939.3	1949.4	3010.3	2578.0	1758.7	890.9	358.4	350.5
80°	81.1	83.4	127.9	282.9	792.3	1758.7	1435.2	716.0	262.3	79.5	73.1
82.5°	31.8	34.2	65.2	134.3	340.1	738.3	612.7	304.4	153.4	30.2	28.6
85°	7.2	7.9	25.4	66.8	129.5	213.8	215.4	186.0	127.2	14.3	13.5
87.5°	0.8	1.6	7.2	8.7	10.3	5.6	18.3	19.1	35.0	5.6	5.6
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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	2.4	2.4	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
5°	2.4	2.4	2.4	1.6	1.6	0.8	0.0	0.0	0.0	0.0	0.0
7.5°	2.4	2.4	2.4	1.6	0.8	0.8	0.0	69.9	72.3	74.7	75.5
10°	2.4	2.4	2.4	1.6	1.6	73.1	85.8	82.6	77.1	74.7	75.5
12.5°	86.6	84.2	27.0	5.6	66.8	80.3	66.0	54.8	49.3	45.3	45.3
15°	189.1	182.0	151.8	116.0	108.9	62.0	42.1	35.8	52.5	63.6	63.6
17.5°	201.1	192.3	170.1	168.5	110.5	54.0	43.7	56.4	59.6	62.8	62.8
20°	389.4	348.9	240.0	161.3	81.1	66.0	54.8	54.0	56.4	60.4	61.2
22.5°	417.2	397.3	302.0	195.5	73.9	71.5	63.6	60.4	81.1	88.2	88.2
25°	530.1	511.0	325.0	155.8	89.8	73.1	80.3	75.5	77.1	83.4	83.4
27.5°	677.9	642.9	426.8	131.1	83.4	79.5	81.9	75.5	89.0	105.7	105.7
30°	751.0	681.1	408.5	116.0	85.0	86.6	78.7	92.2	92.2	98.5	99.3
32.5°	1002.1	953.6	460.1	97.7	85.0	79.5	85.8	87.4	85.8	111.3	112.1
35°	1066.5	1008.5	394.2	101.7	81.1	77.1	77.1	86.6	92.2	97.7	98.5
37.5°	1145.2	1069.7	309.9	95.4	84.2	74.7	70.7	73.9	81.1	95.4	96.2
40°	1245.3	1136.4	238.4	89.8	78.7	68.3	64.4	67.5	67.5	71.5	72.3
42.5°	1380.4	1215.9	176.4	85.8	73.9	62.8	56.4	52.5	50.1	49.3	50.1
45°	1565.6	1317.6	131.9	81.9	70.7	55.6	46.9	38.1	31.8	31.8	32.6
47.5°	1785.7	1431.3	107.3	75.5	66.0	47.7	35.8	24.6	19.9	20.7	21.5
50°	2020.1	1551.3	93.8	69.9	60.4	38.9	23.8	15.1	12.7	13.5	14.3
52.5°	2237.1	1629.1	88.2	64.4	53.2	30.2	15.1	10.3	9.5	9.5	10.3
55°	2454.8	1687.9	83.4	58.8	42.9	19.9	8.7	7.9	7.9	7.2	7.2
57.5°	2657.5	1722.9	75.5	50.9	30.2	11.9	6.4	6.4	5.6	5.6	5.6
60°	2843.4	1718.9	60.4	38.1	19.1	7.2	4.8	4.8	4.0	4.0	4.0
62.5°	3033.4	1701.4	42.9	27.0	12.7	4.8	3.2	3.2	2.4	1.6	2.4
65°	3147.8	1652.2	28.6	19.1	7.9	3.2	2.4	1.6	0.8	0.0	0.8
67.5°	3100.1	1509.1	21.5	14.3	5.6	2.4	1.6	0.8	0.0	0.0	0.0
68°	3056.4	1463.8	19.9	13.5	4.8	2.4	1.6	0.8	0.0	0.0	0.0
70°	2712.3	1219.9	17.5	11.1	4.0	2.4	1.6	0.8	0.0	0.0	0.0
72.5°	1809.5	792.3	14.3	8.7	3.2	1.6	1.6	0.8	0.0	0.0	0.0
75°	834.4	254.3	11.1	7.2	2.4	1.6	1.6	0.8	0.0	0.0	0.0
77.5°	222.5	54.0	7.2	4.8	2.4	1.6	1.6	0.8	0.8	0.8	0.0
80°	53.2	16.7	4.8	4.0	2.4	1.6	1.6	0.8	0.8	0.8	0.0
82.5°	19.9	8.7	3.2	3.2	2.4	1.6	1.6	0.8	1.6	1.6	0.0
85°	8.7	5.6	3.2	3.2	2.4	1.6	1.6	1.6	1.6	2.4	0.0
87.5°	4.0	4.0	3.2	3.2	3.2	1.6	2.4	2.4	2.4	2.4	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)