

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: P416939

Luminaire Tested: **LXF.LXT-PA1-80-827-U-T4W-HSS**

Issue Date: 10/26/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P416939  
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-PA1-80-827-U-T4W-HSS  
Description: DECORATIVE POST TOP LUMINAIRE  
(1) 80 CRI, 2700K, 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: 5076 lumens  
Efficiency: N/A  
Efficacy: 61.2 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

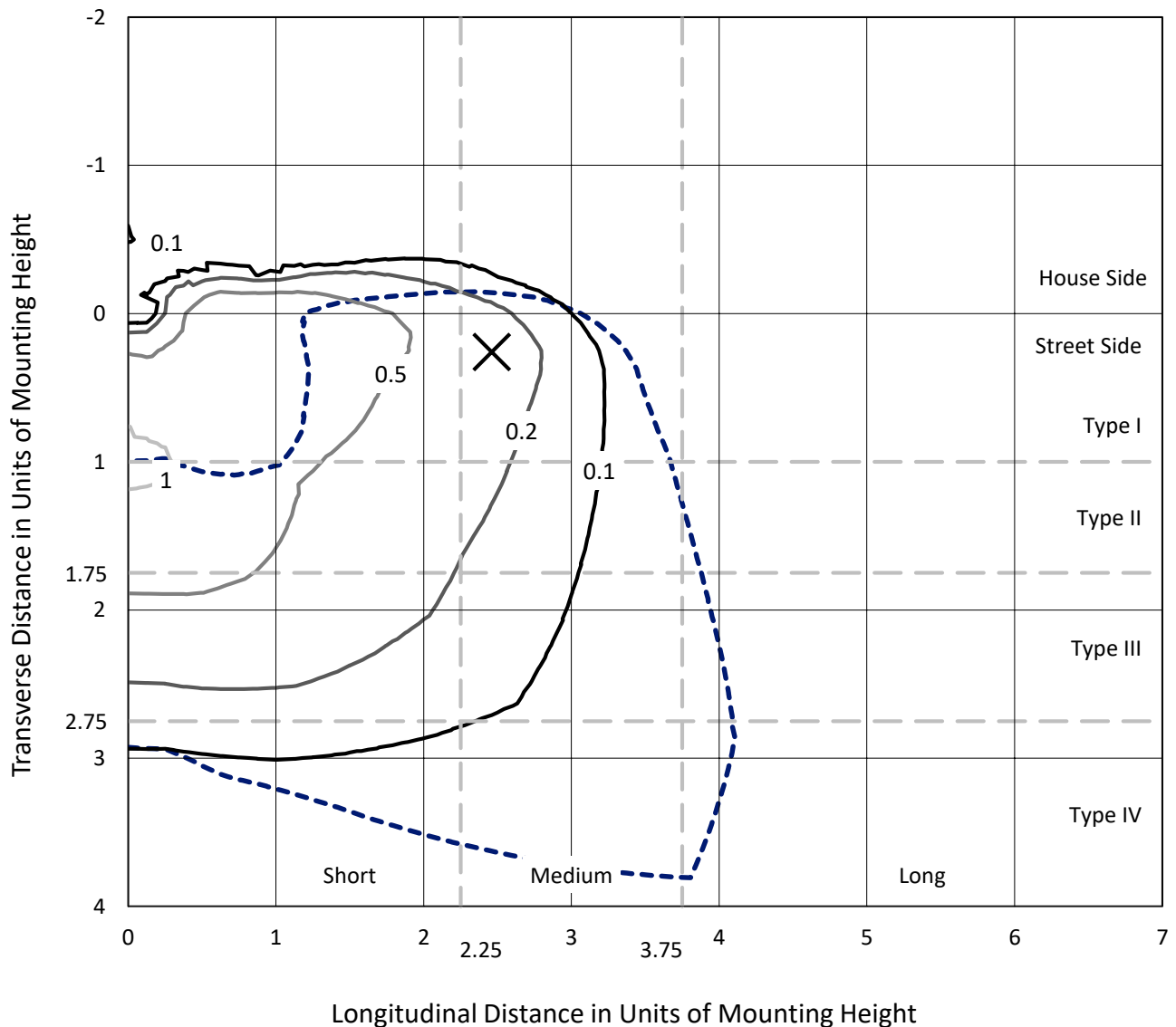
Input Watts (W): 83  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

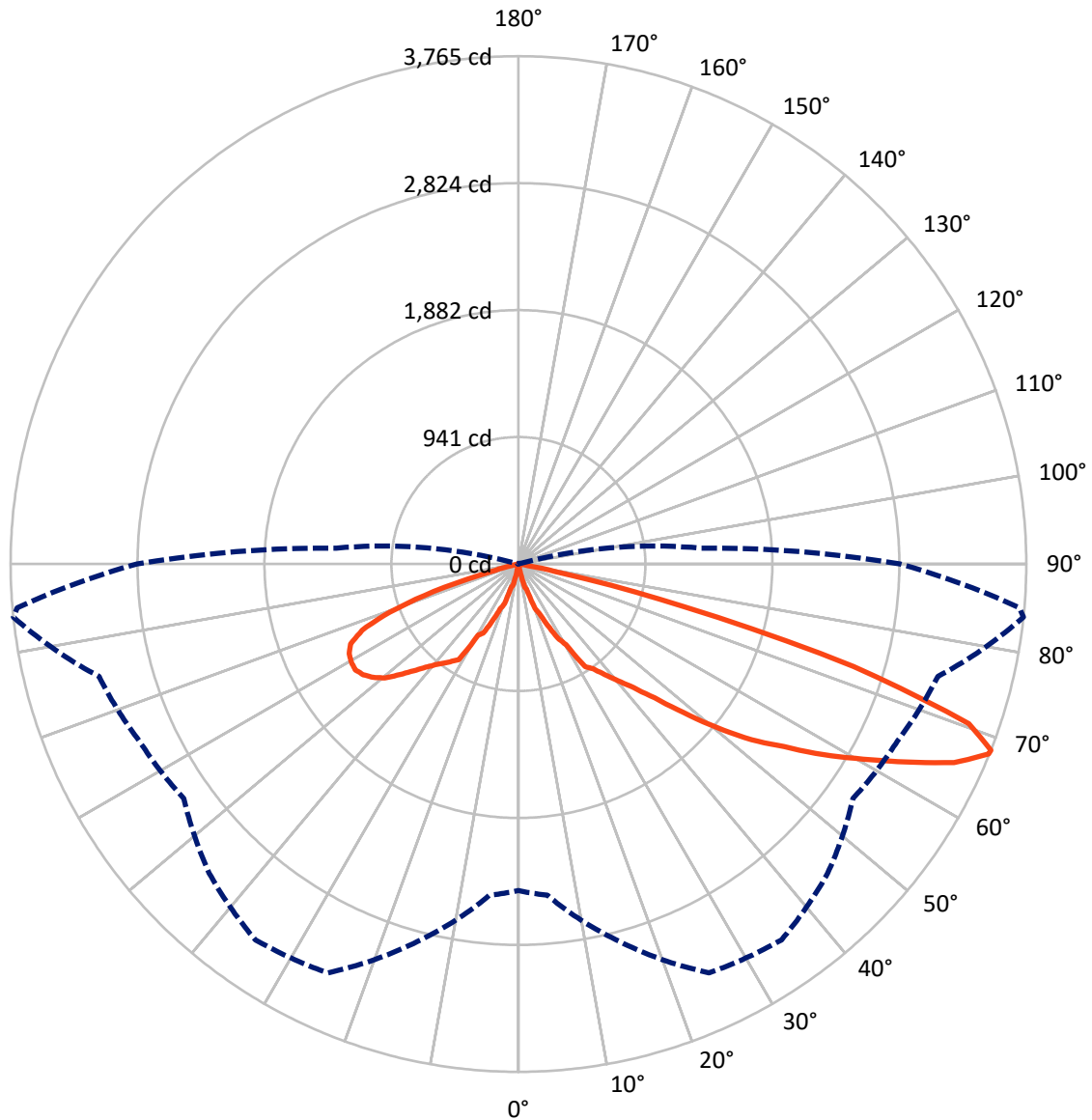
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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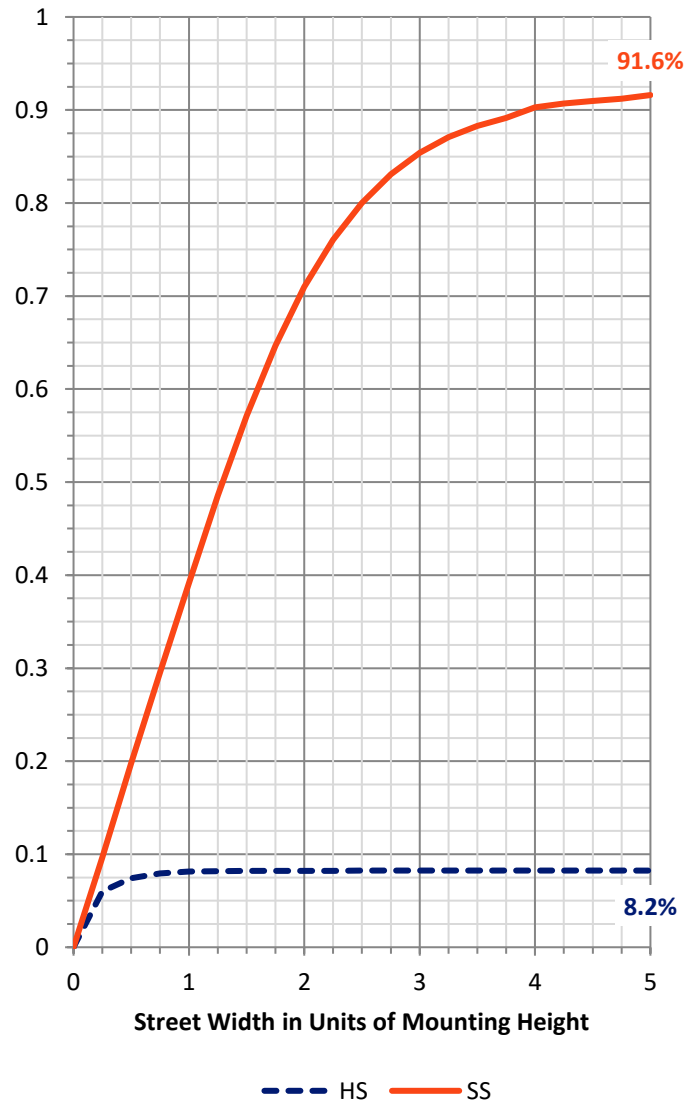
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	421.8	0.0	421.8
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	4654.2	0.0	4654.2
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	5076.0	0.0	5076.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.3	0.1
10°-20°	45.9	0.9
20°-30°	164.6	3.2
30°-40°	351.5	6.9
40°-50°	628.1	12.4
50°-60°	1114.4	22.0
60°-70°	1601.5	31.6
70°-80°	1078.1	21.2
80°-90°	88.6	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°	5076.0	100.0
0°-180°	5076.0	100.0



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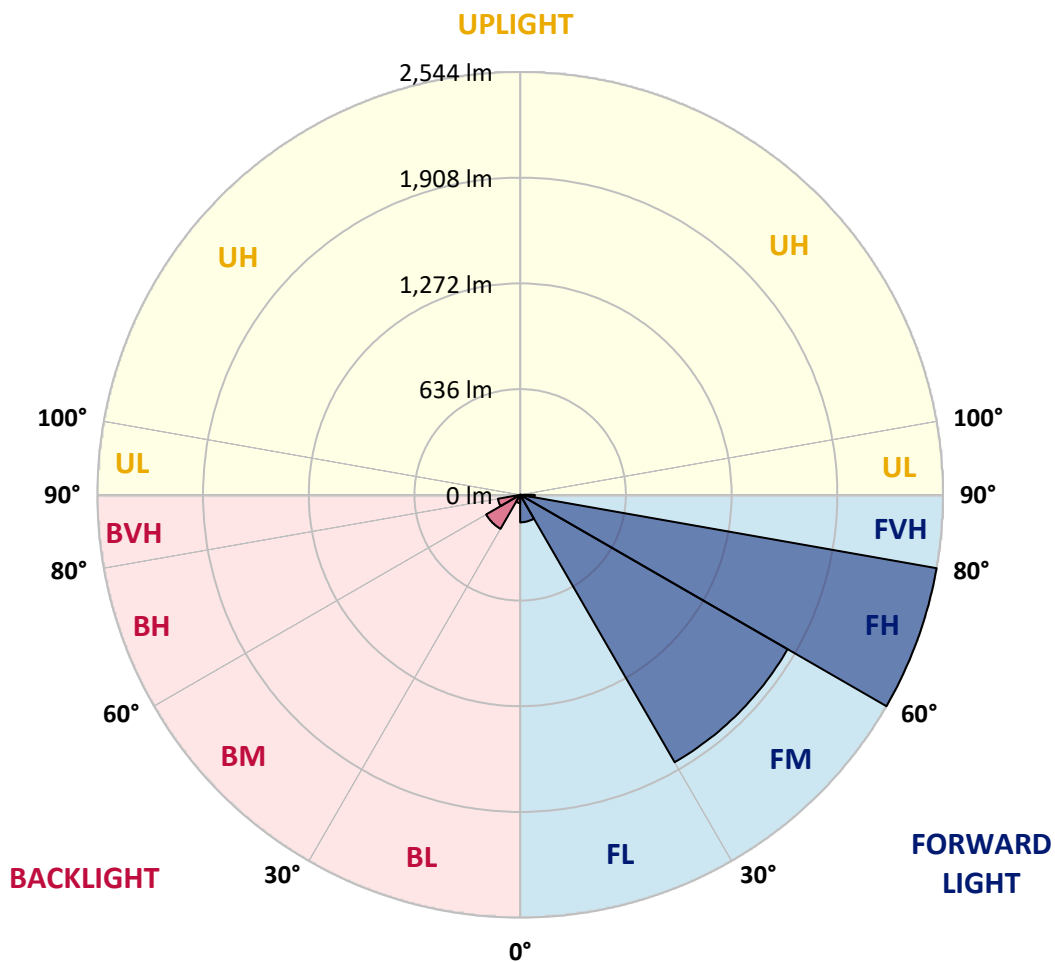
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	165.5	3.3			
FM	(30°-60°)	1857.6	36.6			
FH	(60°-80°)	2543.8	50.1			G2/5000
FVH	(80°-90°)	87.3	1.7			G1/100
BL	(0°-30°)	48.4	1.0	B0/110		
BM	(30°-60°)	236.3	4.7	B1/1000		
BH	(60°-80°)	135.8	2.7	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-G2**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	0.7	0.7	0.0	0.7	0.7	1.5	1.5	2.2	2.2	2.2	2.2
5°	39.0	33.1	32.3	28.7	20.6	5.1	1.5	2.2	2.2	2.2	2.2
7.5°	139.7	137.5	136.0	133.1	130.1	100.0	19.8	2.2	2.2	2.2	2.2
10°	150.0	147.0	144.8	141.2	136.7	131.6	125.7	16.2	2.2	2.2	2.2
12.5°	310.2	306.6	212.5	175.7	144.8	137.5	133.1	69.1	64.0	72.8	83.1
15°	326.4	323.5	315.4	305.1	274.2	155.1	208.8	259.5	169.1	180.1	180.1
17.5°	363.9	358.0	330.1	314.7	302.2	332.3	305.1	277.9	182.3	193.4	193.4
20°	509.5	508.0	499.9	349.2	317.6	420.5	332.3	296.3	336.7	351.4	334.5
22.5°	513.9	512.4	506.5	486.7	499.2	432.3	477.1	447.7	459.5	401.4	398.5
25°	681.5	675.6	541.1	495.5	563.1	461.0	567.6	494.0	485.2	501.4	501.4
27.5°	694.0	692.5	688.1	659.4	577.8	652.8	584.5	639.6	652.1	619.8	636.7
30°	790.3	741.8	716.1	699.1	680.8	685.2	682.2	735.9	679.3	692.5	685.2
32.5°	919.7	915.3	902.1	745.5	756.5	715.3	795.5	787.4	878.5	907.2	902.8
35°	1099.8	1029.2	943.2	862.4	785.2	849.9	821.9	916.0	938.8	952.0	979.2
37.5°	1257.9	1235.1	1155.0	914.6	869.7	874.9	940.3	981.5	1015.3	1038.8	1050.6
40°	1402.7	1385.8	1332.1	1068.9	915.3	949.8	1003.5	1026.3	1093.2	1136.6	1137.3
42.5°	1617.4	1627.7	1577.7	1208.6	1038.8	1055.0	1100.6	1104.2	1163.8	1250.5	1253.5
45°	1885.7	1871.7	1859.3	1411.5	1156.4	1146.1	1209.4	1200.5	1292.4	1414.5	1429.2
47.5°	2144.5	2124.6	2090.8	1645.3	1319.6	1248.3	1336.5	1343.9	1487.3	1643.1	1649.0
50°	2344.5	2337.1	2303.3	1917.3	1536.5	1389.5	1477.7	1564.4	1716.6	1904.1	1916.6
52.5°	2565.0	2548.1	2488.6	2172.4	1815.1	1601.9	1646.8	1799.0	1958.5	2164.3	2162.9
55°	2712.1	2714.3	2657.6	2432.7	2068.0	1842.3	1860.0	2093.8	2179.1	2389.3	2404.7
57.5°	2907.6	2891.4	2906.9	2738.5	2410.6	2086.4	2127.6	2329.8	2406.2	2665.7	2676.0
60°	3053.2	3059.1	3135.5	3020.8	2676.0	2334.9	2370.2	2522.4	2632.7	2936.3	2968.6
62.5°	3058.3	3089.9	3295.8	3303.9	2963.5	2604.0	2581.2	2719.4	2816.4	3230.3	3269.3
65°	2778.2	2797.3	3261.2	3378.9	3230.3	2867.9	2781.9	2885.6	2998.0	3548.7	3556.0
67.5°	2497.4	2503.3	2951.0	3356.8	3390.6	3184.8	2995.8	3067.1	3175.9	3758.2	3732.5
68°	2420.9	2465.0	2897.3	3344.3	3400.9	3242.1	3028.2	3101.7	3219.3	3764.8	3728.8
70°	2194.5	2241.5	2639.3	3204.6	3395.8	3458.3	3205.4	3215.6	3246.5	3542.8	3427.4
72.5°	1475.5	1507.1	2088.6	2727.5	3285.5	3709.7	3403.1	3148.0	2912.8	2597.4	2495.2
75°	567.6	571.2	1052.8	1874.7	2840.7	3584.0	3194.3	2654.0	1978.3	1264.5	1187.3
77.5°	211.7	208.1	305.1	869.0	1803.4	2784.8	2384.9	1626.9	824.1	331.6	324.2
80°	75.0	77.2	118.4	261.7	733.0	1626.9	1327.7	662.4	242.6	73.5	67.6
82.5°	29.4	31.6	60.3	124.2	314.7	683.0	566.8	281.6	141.9	27.9	26.5
85°	6.6	7.4	23.5	61.8	119.8	197.8	199.2	172.0	117.6	13.2	12.5
87.5°	0.7	1.5	6.6	8.1	9.6	5.1	16.9	17.6	32.3	5.1	5.1
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°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
2.5°	2.2	2.2	2.2	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0
5°	2.2	2.2	2.2	1.5	1.5	0.7	0.0	0.0	0.0	0.0	0.0
7.5°	2.2	2.2	2.2	1.5	0.7	0.7	0.0	64.7	66.9	69.1	69.8
10°	2.2	2.2	2.2	1.5	1.5	67.6	79.4	76.5	71.3	69.1	69.8
12.5°	80.1	77.9	25.0	5.1	61.8	74.3	61.0	50.7	45.6	41.9	41.9
15°	175.0	168.4	140.4	107.3	100.7	57.3	39.0	33.1	48.5	58.8	58.8
17.5°	186.0	177.9	157.3	155.9	102.2	50.0	40.4	52.2	55.1	58.1	58.1
20°	360.2	322.7	222.0	149.2	75.0	61.0	50.7	50.0	52.2	55.9	56.6
22.5°	386.0	367.6	279.4	180.9	68.4	66.2	58.8	55.9	75.0	81.6	81.6
25°	490.4	472.7	300.7	144.1	83.1	67.6	74.3	69.8	71.3	77.2	77.2
27.5°	627.1	594.8	394.8	121.3	77.2	73.5	75.7	69.8	82.3	97.8	97.8
30°	694.7	630.0	377.9	107.3	78.7	80.1	72.8	85.3	85.3	91.2	91.9
32.5°	927.1	882.2	425.7	90.4	78.7	73.5	79.4	80.9	79.4	102.9	103.7
35°	986.6	932.9	364.6	94.1	75.0	71.3	71.3	80.1	85.3	90.4	91.2
37.5°	1059.4	989.5	286.7	88.2	77.9	69.1	65.4	68.4	75.0	88.2	89.0
40°	1152.0	1051.3	220.6	83.1	72.8	63.2	59.5	62.5	62.5	66.2	66.9
42.5°	1277.0	1124.8	163.2	79.4	68.4	58.1	52.2	48.5	46.3	45.6	46.3
45°	1448.3	1218.9	122.0	75.7	65.4	51.5	43.4	35.3	29.4	29.4	30.1
47.5°	1651.9	1324.0	99.2	69.8	61.0	44.1	33.1	22.8	18.4	19.1	19.8
50°	1868.8	1435.1	86.8	64.7	55.9	36.0	22.1	14.0	11.8	12.5	13.2
52.5°	2069.5	1507.1	81.6	59.5	49.3	27.9	14.0	9.6	8.8	8.8	9.6
55°	2270.9	1561.5	77.2	54.4	39.7	18.4	8.1	7.4	7.4	6.6	6.6
57.5°	2458.4	1593.9	69.8	47.1	27.9	11.0	5.9	5.9	5.1	5.1	5.1
60°	2630.4	1590.2	55.9	35.3	17.6	6.6	4.4	4.4	3.7	3.7	3.7
62.5°	2806.2	1574.0	39.7	25.0	11.8	4.4	2.9	2.9	2.2	1.5	2.2
65°	2912.0	1528.4	26.5	17.6	7.4	2.9	2.2	1.5	0.7	0.0	0.7
67.5°	2867.9	1396.1	19.8	13.2	5.1	2.2	1.5	0.7	0.0	0.0	0.0
68°	2827.5	1354.2	18.4	12.5	4.4	2.2	1.5	0.7	0.0	0.0	0.0
70°	2509.1	1128.5	16.2	10.3	3.7	2.2	1.5	0.7	0.0	0.0	0.0
72.5°	1674.0	733.0	13.2	8.1	2.9	1.5	1.5	0.7	0.0	0.0	0.0
75°	771.9	235.3	10.3	6.6	2.2	1.5	1.5	0.7	0.0	0.0	0.0
77.5°	205.8	50.0	6.6	4.4	2.2	1.5	1.5	0.7	0.7	0.7	0.0
80°	49.3	15.4	4.4	3.7	2.2	1.5	1.5	0.7	0.7	0.7	0.0
82.5°	18.4	8.1	2.9	2.9	2.2	1.5	1.5	0.7	1.5	1.5	0.0
85°	8.1	5.1	2.9	2.9	2.2	1.5	1.5	1.5	1.5	2.2	0.0
87.5°	3.7	3.7	2.9	2.9	2.9	1.5	2.2	2.2	2.2	2.2	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)