

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: P266180

Luminaire Tested: **LXF.LXT-AF24-80-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266180
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-AF24-80-D-U-T2U-7027-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 4767 lumens
Efficiency: N/A
Efficacy: 57.4 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): 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

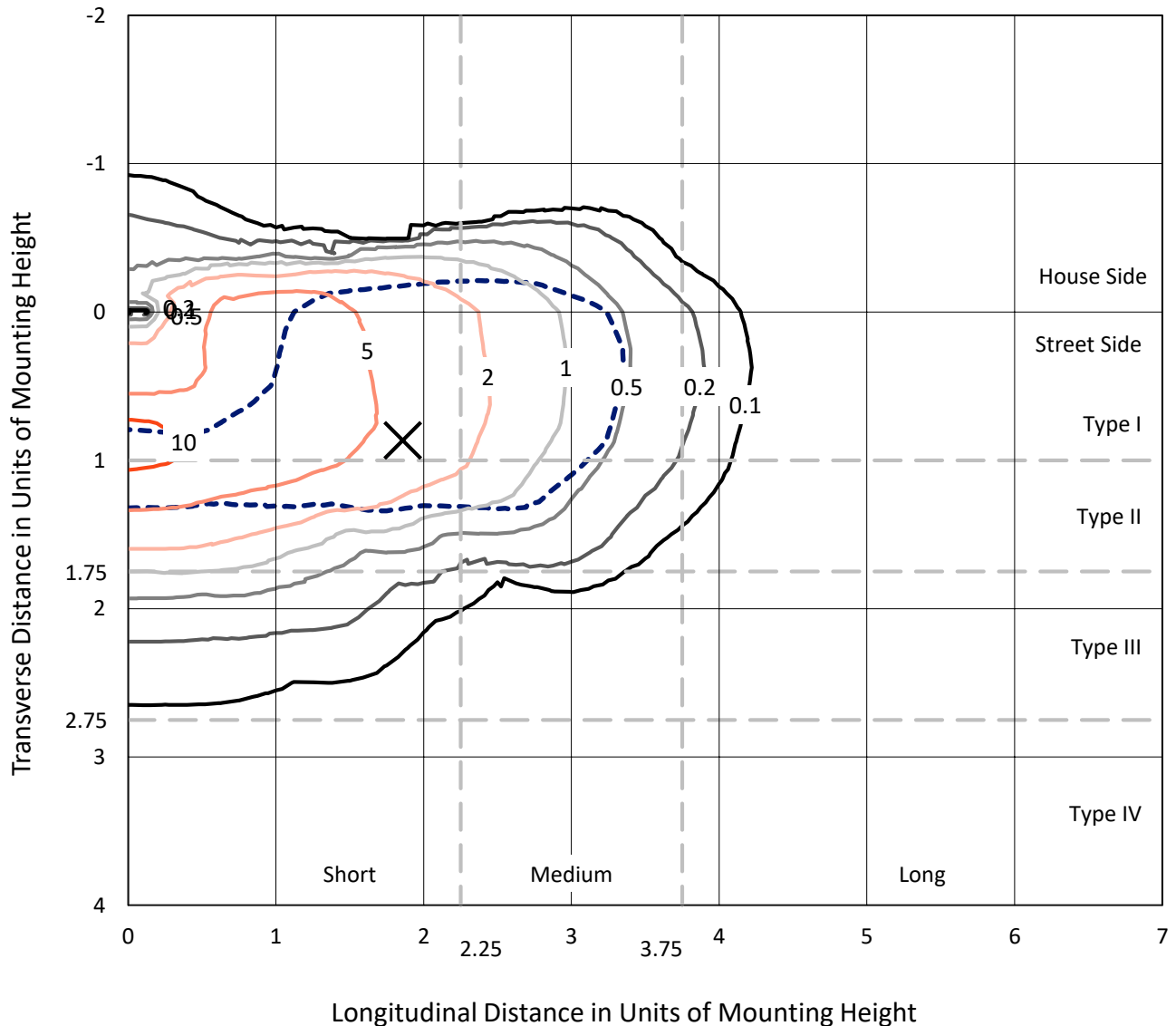


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

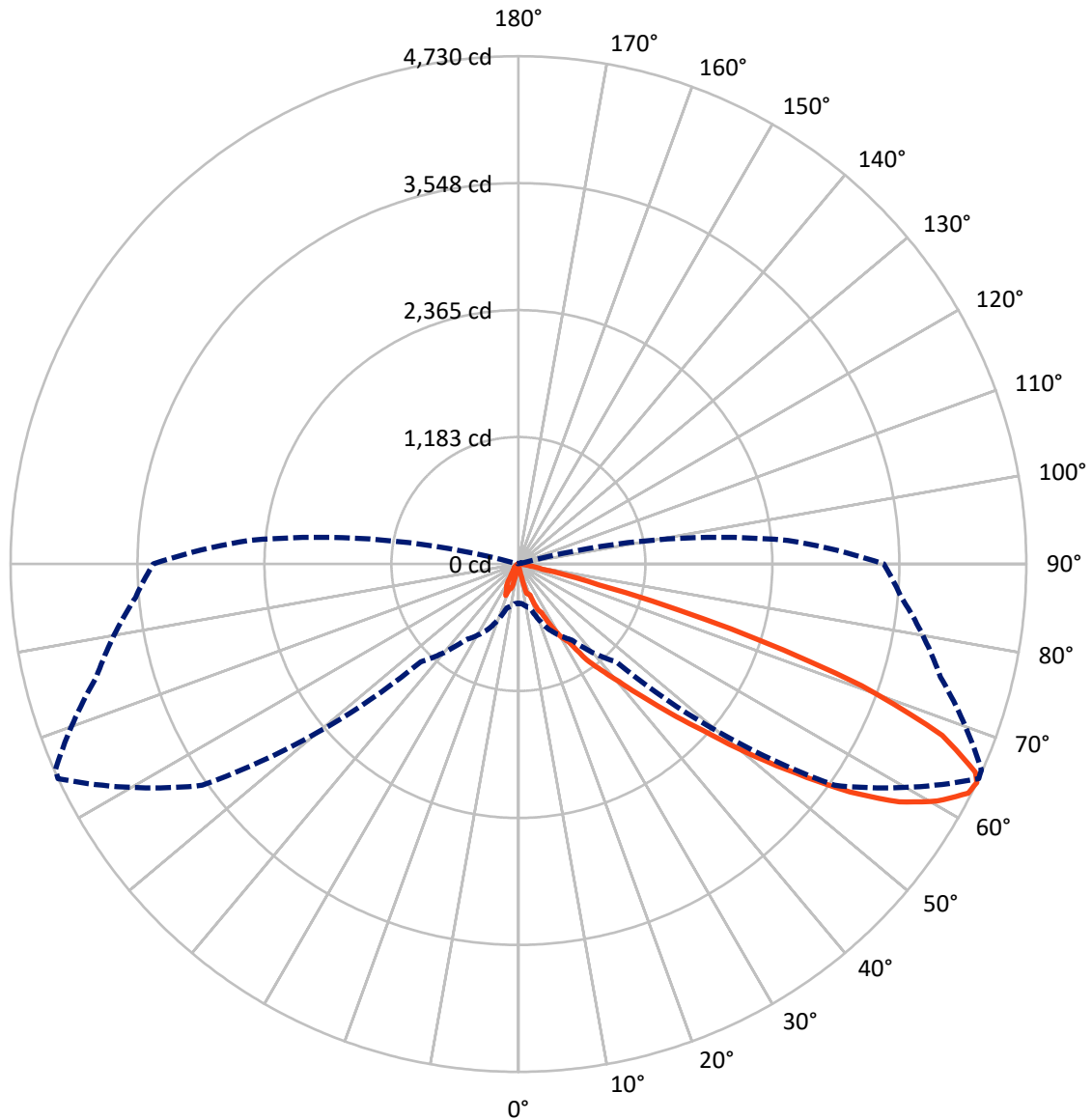


Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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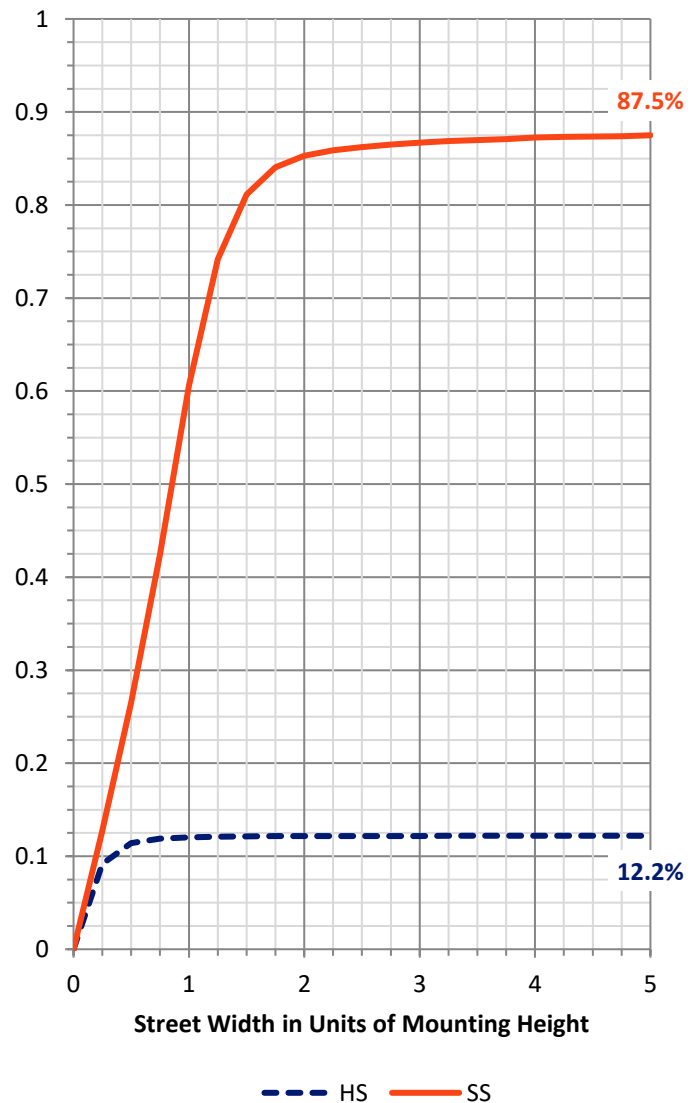
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	587.6	0.0	587.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4179.4	0.0	4179.4
	% Fixture	87.7	0.0	87.7
Total	Lumens	4767.0	0.0	4767.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.1
10°-20°	47.6	1.0
20°-30°	161.8	3.4
30°-40°	453.9	9.5
40°-50°	1054.1	22.1
50°-60°	1473.3	30.9
60°-70°	1162.2	24.4
70°-80°	389.2	8.2
80°-90°	21.2	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°	4767.0	100.0
0°-180°	4767.0	100.0



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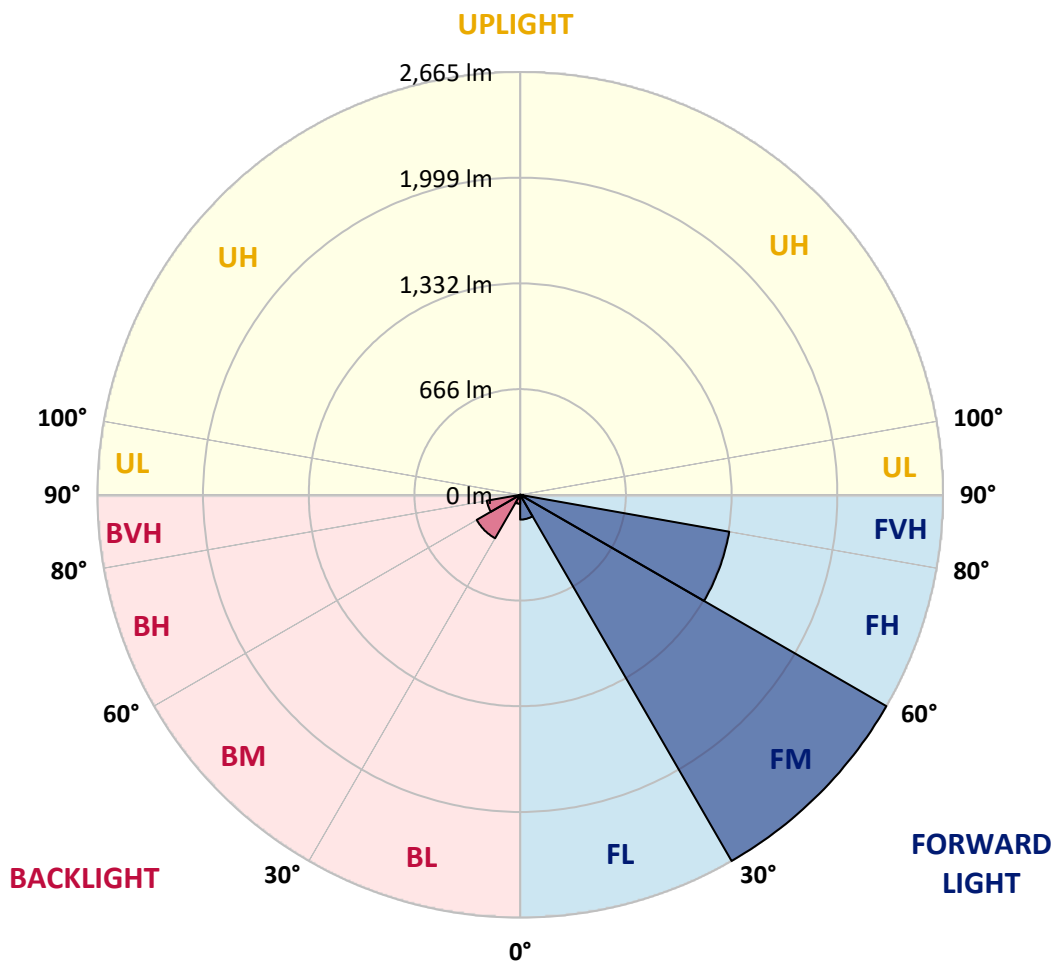
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.2	3.3			
FM (30°-60°)	2665.0	55.9			
FH (60°-80°)	1338.0	28.1			G1/1800
FVH (80°-90°)	20.2	0.4			G1/100
BL (0°-30°)	56.9	1.2	B0/110		
BM (30°-60°)	316.3	6.6	B1/1000		
BH (60°-80°)	213.4	4.5	B1/500		G1/500
BVH (80°-90°)	1.0	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°	94.0	38.9	29.5	18.2	5.6	1.5	0.8	0.0	0.0	0.0	0.0
7.5°	135.3	134.4	134.4	136.1	137.7	125.8	9.5	0.8	0.0	0.0	0.0
10°	128.9	128.1	128.1	130.6	132.9	135.3	136.1	4.9	3.1	0.0	0.0
12.5°	257.9	256.2	246.8	147.2	132.9	133.7	136.9	93.2	55.8	20.8	98.6
15°	253.9	253.1	253.9	259.4	259.4	138.5	206.9	279.4	278.6	181.5	212.4
17.5°	260.1	256.2	254.7	258.6	265.0	306.4	303.2	293.7	294.5	192.5	218.1
20°	374.9	375.6	381.2	291.3	274.5	387.6	343.8	308.7	313.6	370.0	401.1
22.5°	381.2	380.4	387.6	401.1	472.7	397.9	460.8	463.2	473.4	484.6	430.5
25°	526.9	526.0	430.5	421.8	505.3	446.5	551.5	501.3	510.1	511.7	527.7
27.5°	596.0	588.8	593.7	596.0	533.1	627.0	571.4	662.1	634.3	701.0	669.2
30°	759.2	736.9	682.1	690.7	659.7	668.5	692.4	791.0	764.7	743.3	731.3
32.5°	1110.1	1096.7	1042.6	860.2	800.6	727.4	840.4	865.8	869.0	1017.1	1013.8
35°	1621.8	1526.3	1335.3	1200.9	958.9	950.1	931.9	1094.2	1102.2	1158.6	1157.8
37.5°	2283.1	2264.0	1992.7	1547.8	1266.9	1114.1	1159.4	1254.9	1224.7	1343.2	1344.9
40°	2685.8	2667.4	2447.8	2064.2	1618.7	1400.5	1345.8	1437.9	1387.1	1592.3	1552.6
42.5°	2976.3	2957.2	2797.2	2440.7	2132.8	1886.0	1638.6	1677.6	1644.8	1828.7	1811.3
45°	3149.7	3122.7	3054.2	2751.9	2555.3	2451.0	2061.2	1975.9	1983.8	2125.6	2106.4
47.5°	3140.1	3098.9	3116.3	2931.7	2912.7	2970.7	2587.1	2314.9	2405.8	2481.3	2431.9
50°	2892.0	2859.2	2957.9	2982.6	3146.6	3380.5	3144.2	2766.2	2880.0	2832.3	2729.6
52.5°	2431.9	2438.3	2581.5	2748.6	3187.1	3663.0	3679.0	3238.1	3392.4	3149.7	3000.1
55°	1944.9	1962.4	2119.2	2321.3	2938.8	3755.4	4125.3	3745.8	3880.3	3411.6	3195.9
57.5°	1430.0	1457.9	1654.5	1826.3	2417.6	3519.7	4345.8	4181.9	4262.3	3636.8	3349.5
60°	847.6	862.6	1123.7	1372.7	1751.5	2821.8	4337.0	4482.0	4509.0	3870.0	3472.0
62.5°	500.5	508.5	596.0	926.3	1154.0	1850.1	4006.8	4700.7	4692.7	4018.7	3556.4
64°	365.3	370.8	425.0	672.4	862.6	1288.3	3593.0	4730.1	4720.7	4069.0	3580.3
65°	305.7	310.4	348.5	530.8	717.7	985.3	3133.8	4677.7	4671.2	4094.4	3578.7
67.5°	245.1	245.9	257.1	311.2	488.6	517.2	1814.3	4258.2	4239.2	4120.6	3519.7
70°	219.6	222.8	242.7	245.1	357.3	339.7	638.2	3391.7	3350.3	3912.1	3382.8
72.5°	174.4	179.0	210.9	240.3	257.9	254.7	291.3	2068.3	2085.0	2874.3	2835.4
75°	121.8	126.5	159.2	199.0	203.7	186.2	210.2	776.7	766.3	1419.7	1648.8
77.5°	75.5	78.1	99.5	143.2	189.5	123.3	146.5	225.2	241.1	440.1	450.4
80°	50.1	50.9	62.9	94.7	131.3	111.4	87.6	113.7	116.2	138.5	68.5
82.5°	27.8	28.7	39.7	59.6	78.8	98.6	56.6	68.5	72.5	86.0	36.7
85°	9.5	10.3	20.8	33.4	47.7	47.7	36.7	41.4	42.2	54.1	19.1
87.5°	0.0	0.0	4.9	8.8	7.9	3.1	7.9	6.4	5.6	8.8	3.1
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°	0.0	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	0.8	0.0	0.0	0.0	0.0	100.3	110.6	111.4	112.9
10°	0.0	0.0	0.8	0.8	0.0	106.5	112.9	110.6	105.0	103.5	101.9
12.5°	101.9	97.8	13.6	3.1	89.9	111.4	100.3	86.0	72.5	68.5	65.2
15°	210.2	207.7	185.4	203.7	126.5	95.5	70.8	76.4	64.5	60.5	58.8
17.5°	213.3	210.2	198.2	239.6	197.4	97.0	65.2	52.6	47.7	46.2	45.4
20°	405.0	393.1	288.0	235.5	151.3	98.6	50.1	42.2	38.9	42.9	45.4
22.5°	417.1	403.5	347.7	315.9	126.5	64.5	47.7	46.2	48.6	46.2	46.2
25°	526.0	486.3	382.0	259.4	112.2	57.3	54.1	42.2	38.9	37.4	37.4
27.5°	653.3	623.2	527.7	243.5	75.5	60.5	46.9	36.7	40.7	40.7	40.7
30°	698.7	656.5	533.1	213.3	66.8	54.8	39.7	39.7	35.8	34.2	34.2
32.5°	1003.4	942.2	684.4	149.6	60.5	46.2	39.7	33.4	32.6	35.0	35.0
35°	1118.1	1046.4	666.9	110.6	53.3	42.2	34.2	32.6	31.0	31.0	31.0
37.5°	1270.9	1186.5	611.9	81.9	50.1	35.8	30.3	28.7	29.5	31.0	31.8
40°	1470.6	1368.7	567.4	67.6	42.9	31.0	27.0	27.8	27.8	27.8	27.8
42.5°	1706.2	1565.3	501.3	60.5	36.7	27.8	24.7	24.7	25.4	25.4	25.4
45°	1976.7	1780.3	409.1	53.3	31.8	23.9	22.3	22.3	22.3	21.5	22.3
47.5°	2263.2	2012.6	310.4	46.9	27.0	21.5	19.9	19.1	19.1	18.2	19.1
50°	2548.1	2229.1	226.8	40.7	23.9	19.1	16.7	16.7	16.7	15.9	15.9
52.5°	2775.8	2375.5	160.7	35.0	20.8	16.7	14.4	13.6	13.6	12.8	12.8
55°	2966.7	2463.1	117.8	29.5	18.2	14.4	11.9	11.1	11.1	10.3	11.1
57.5°	3114.0	2517.9	89.1	23.9	15.9	11.9	9.5	8.8	8.8	8.8	8.8
60°	3238.1	2536.2	68.5	19.9	13.6	9.5	7.9	7.1	7.1	6.4	7.1
62.5°	3353.5	2531.5	56.6	17.4	11.9	7.9	6.4	5.6	4.9	4.0	4.9
64°	3402.8	2518.7	50.9	15.1	11.1	7.1	5.6	4.9	4.0	2.3	3.1
65°	3423.5	2498.7	46.9	13.6	10.3	6.4	5.6	4.9	2.3	1.5	2.3
67.5°	3406.1	2396.0	36.7	11.9	7.9	4.9	4.0	3.1	0.8	0.8	1.5
70°	3211.0	2178.1	27.8	10.3	7.1	4.0	3.1	2.3	1.5	0.8	1.5
72.5°	2521.9	1566.1	21.5	7.9	5.6	2.3	3.1	2.3	1.5	0.8	0.0
75°	1352.8	588.1	15.9	6.4	4.9	2.3	2.3	1.5	0.8	0.8	0.0
77.5°	348.5	185.4	11.1	4.0	4.0	1.5	1.5	1.5	0.8	0.8	0.0
80°	54.1	26.3	4.9	3.1	2.3	0.8	1.5	0.8	0.8	1.5	0.0
82.5°	22.3	10.3	3.1	2.3	2.3	0.0	1.5	0.8	0.8	0.8	0.0
85°	5.6	4.0	2.3	1.5	1.5	0.0	0.8	0.0	0.8	0.8	0.0
87.5°	0.8	1.5	1.5	1.5	1.5	0.0	0.8	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)