

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: P266238

Luminaire Tested: **LXF.LXT-AF24-100-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266238
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-7027-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 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: 5203.8 lumens
Efficiency: N/A
Efficacy: 54.2 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

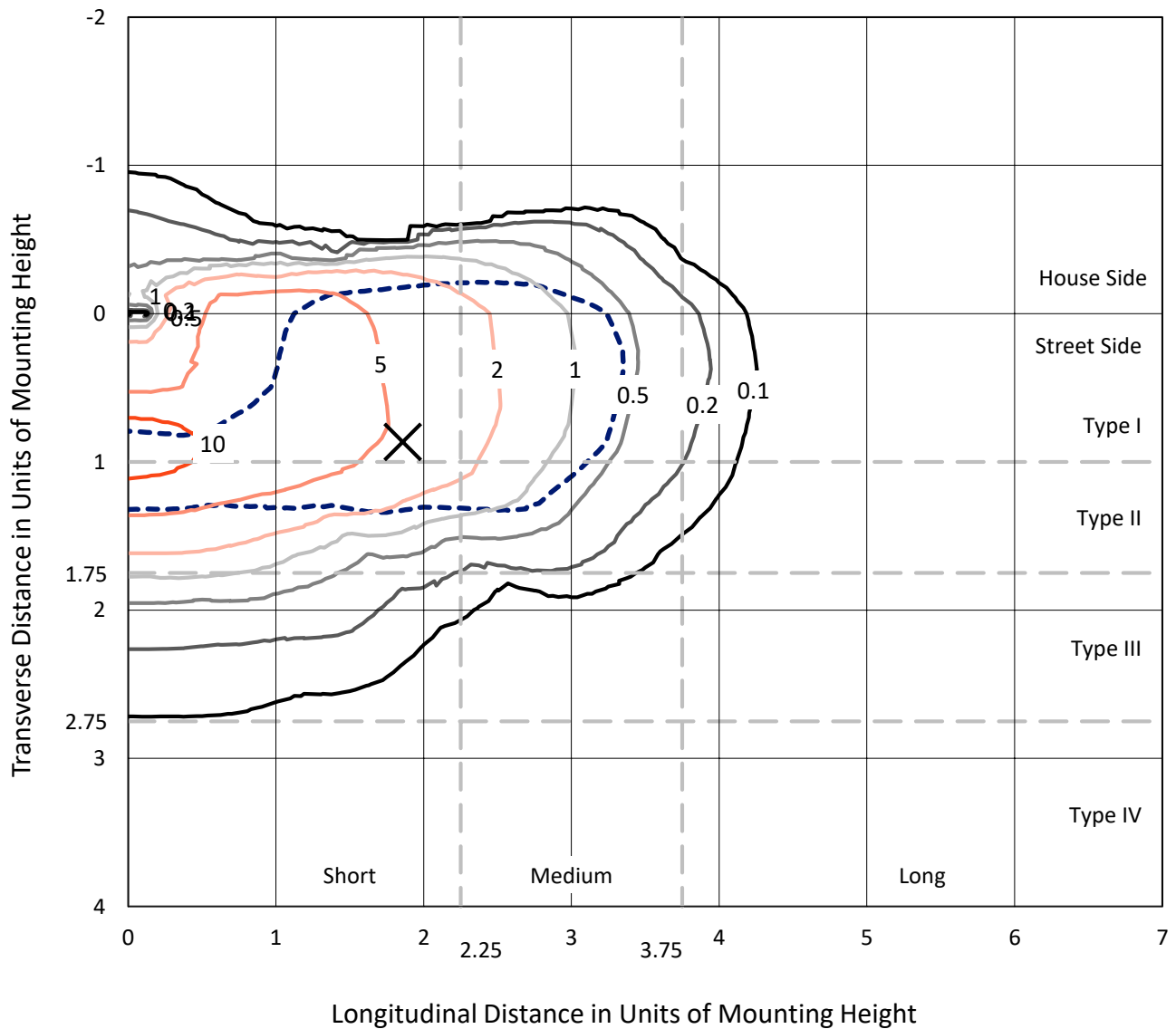


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

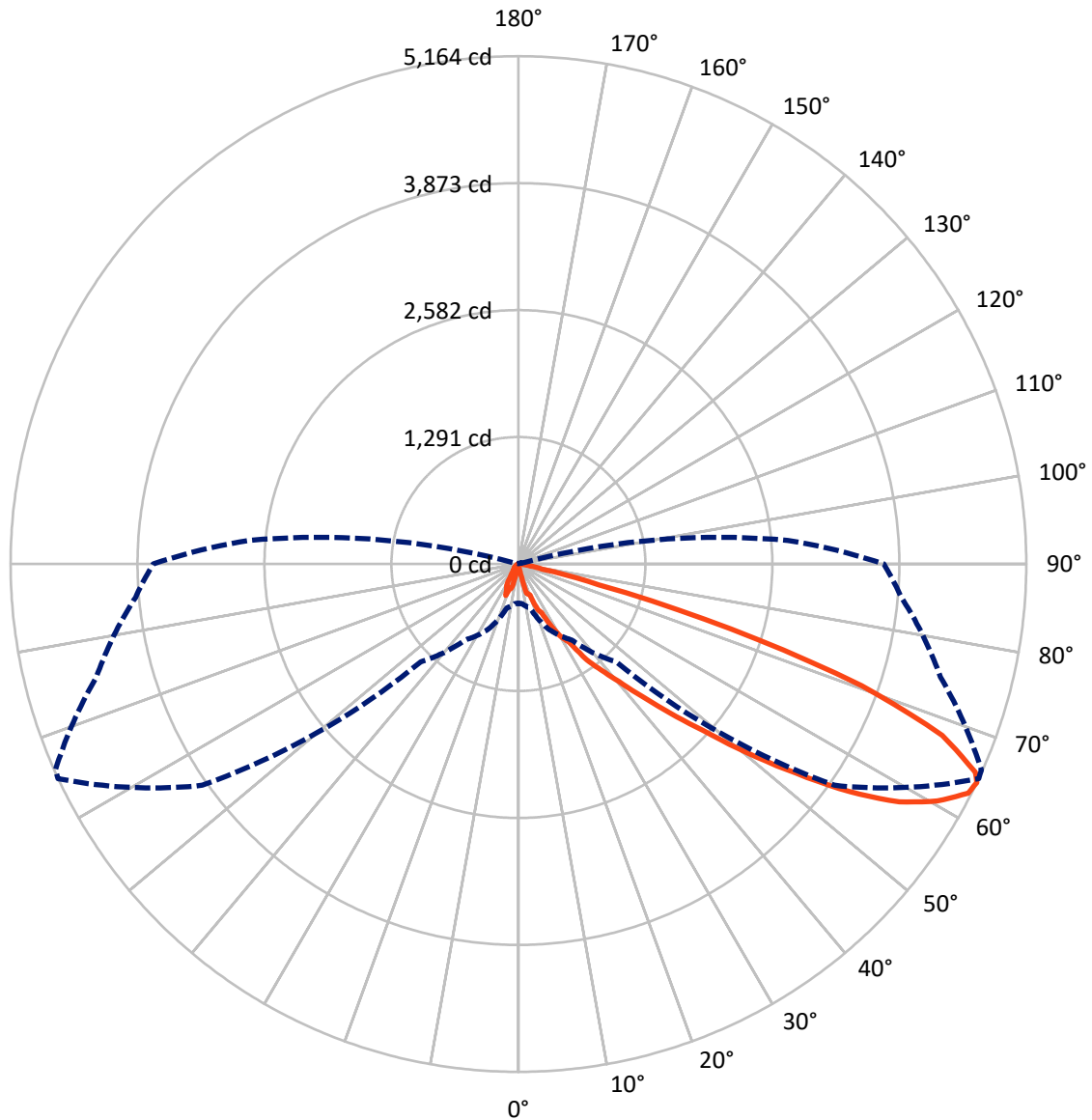


Based on 10 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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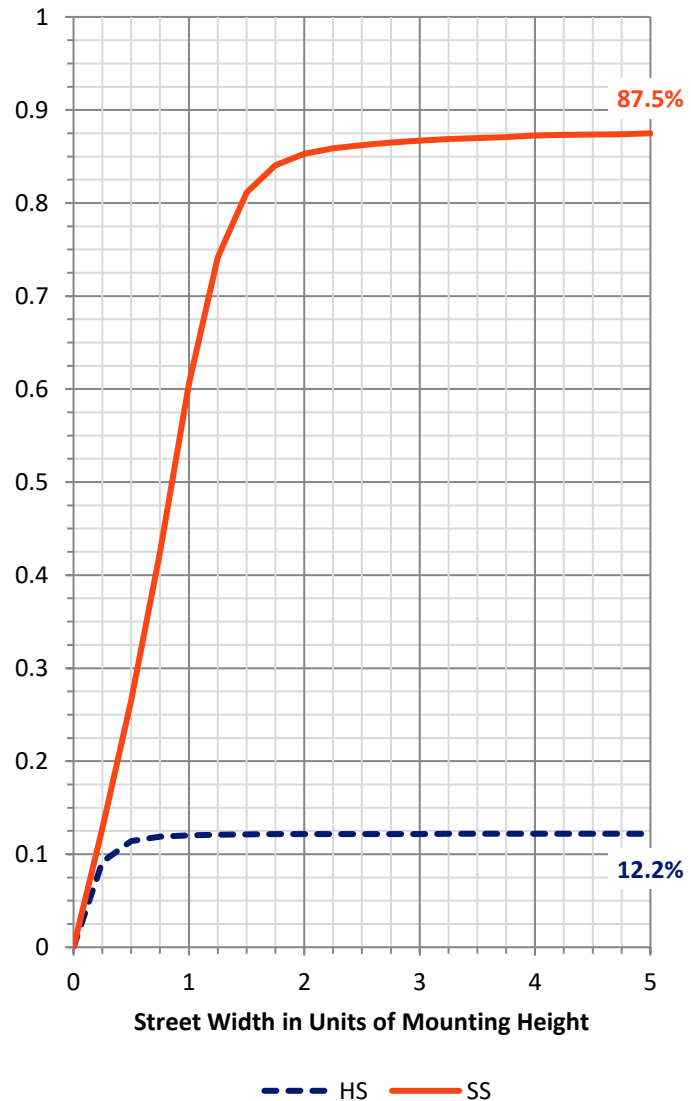
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.5	0.0	641.5
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	4562.3	0.0	4562.3
	% Fixture	87.7	0.0	87.7
Total	Lumens	5203.8	0.0	5203.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.0	0.1
10°-20°	52.0	1.0
20°-30°	176.6	3.4
30°-40°	495.5	9.5
40°-50°	1150.6	22.1
50°-60°	1608.3	30.9
60°-70°	1268.7	24.4
70°-80°	424.9	8.2
80°-90°	23.1	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°	5203.8	100.0
0°-180°	5203.8	100.0

Coefficient of Utilization



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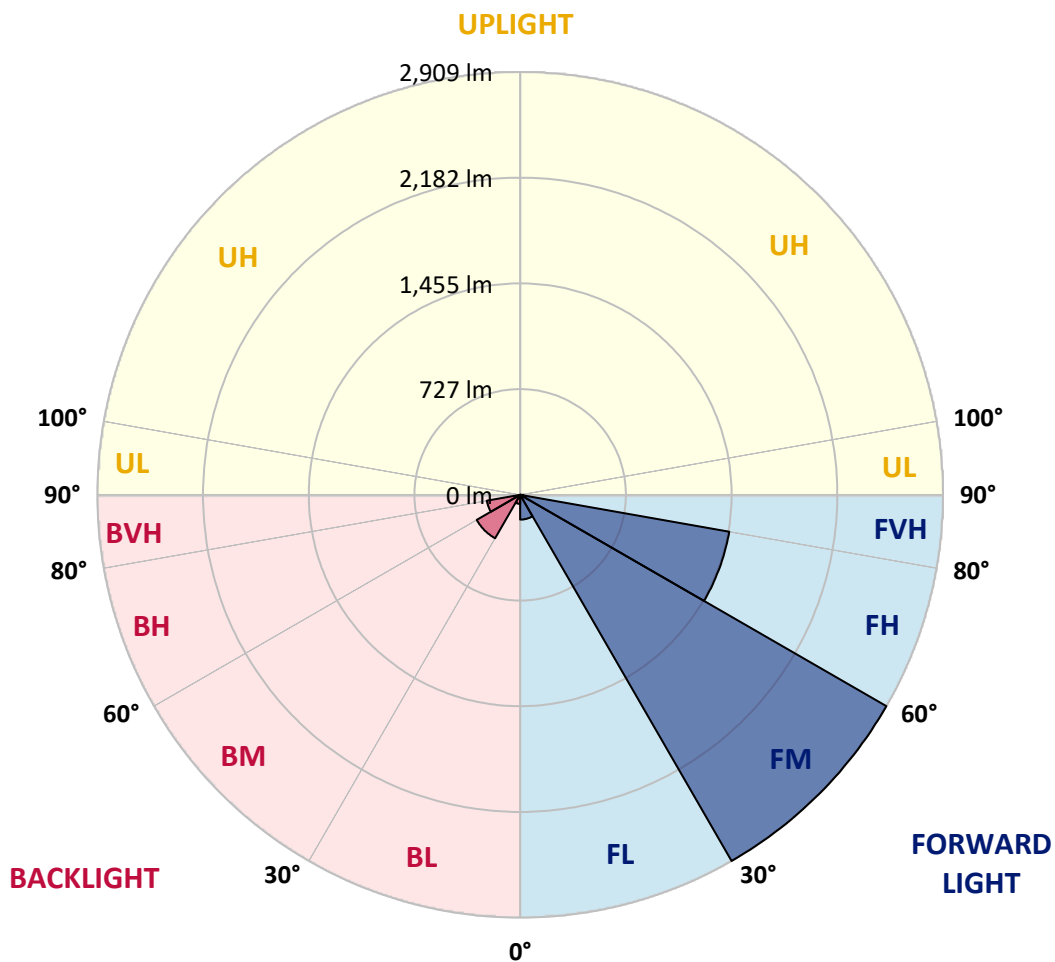
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.5	3.3			
FM	(30°-60°)	2909.2	55.9			
FH	(60°-80°)	1460.6	28.1			G1/1800
FVH	(80°-90°)	22.0	0.4			G1/100
BL	(0°-30°)	62.1	1.2	B0/110		
BM	(30°-60°)	345.3	6.6	B1/1000		
BH	(60°-80°)	233.0	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°	102.4	42.6	32.1	20.0	6.1	1.7	0.9	0.0	0.0	0.0	0.0
7.5°	147.7	146.9	146.9	148.6	150.2	137.3	10.4	0.9	0.0	0.0	0.0
10°	140.8	139.9	139.9	142.6	145.0	147.7	148.6	5.2	3.5	0.0	0.0
12.5°	281.4	279.7	269.3	160.6	145.0	146.0	149.4	101.7	60.8	22.5	107.7
15°	277.0	276.3	277.0	283.1	283.1	151.2	225.8	305.0	304.0	198.0	231.9
17.5°	284.0	279.7	277.9	282.3	289.3	334.4	330.9	320.5	321.5	210.3	238.1
20°	409.2	410.0	416.2	317.9	299.8	423.0	375.3	337.0	342.3	404.0	437.8
22.5°	416.2	415.2	423.0	437.8	515.9	434.3	503.1	505.6	516.9	529.0	470.0
25°	575.0	574.1	470.0	460.4	551.6	487.3	602.0	547.2	556.8	558.6	576.0
27.5°	650.6	642.8	648.0	650.6	582.0	684.6	623.8	722.7	692.4	765.4	730.6
30°	828.7	804.4	744.4	754.0	720.1	729.8	755.7	863.5	834.9	811.3	798.4
32.5°	1211.9	1197.1	1138.1	939.1	874.0	794.0	917.3	945.1	948.6	1110.2	1106.7
35°	1770.4	1666.1	1457.7	1310.8	1046.7	1037.3	1017.2	1194.4	1203.2	1264.9	1263.9
37.5°	2492.3	2471.4	2175.2	1689.6	1383.0	1216.1	1265.7	1369.9	1336.9	1466.4	1468.1
40°	2931.9	2911.9	2672.2	2253.4	1767.0	1528.9	1469.0	1569.8	1514.2	1738.3	1694.8
42.5°	3249.0	3228.1	3053.5	2664.4	2328.1	2058.8	1788.6	1831.3	1795.6	1996.3	1977.2
45°	3438.4	3408.8	3334.1	3004.0	2789.3	2675.6	2250.0	2157.0	2165.6	2320.3	2299.4
47.5°	3427.9	3382.7	3401.8	3200.3	3179.5	3242.9	2824.1	2527.0	2626.0	2708.6	2654.8
50°	3156.9	3121.3	3229.0	3255.8	3434.8	3690.2	3432.2	3019.7	3143.9	3091.7	2979.7
52.5°	2654.8	2661.7	2818.1	3000.5	3479.1	3998.6	4016.1	3534.8	3703.4	3438.4	3275.0
55°	2123.1	2142.2	2313.3	2533.9	3208.1	4099.4	4503.4	4088.9	4235.8	3724.2	3488.7
57.5°	1561.1	1591.4	1806.0	1993.7	2639.1	3842.3	4743.9	4565.0	4652.9	3970.0	3656.5
60°	925.2	941.7	1226.6	1498.6	1912.0	3080.4	4734.4	4892.6	4922.1	4224.5	3790.2
62.5°	546.3	555.2	650.6	1011.2	1259.7	2019.7	4373.9	5131.5	5122.8	4387.0	3882.3
64°	398.8	404.9	463.9	734.0	941.7	1406.4	3922.2	5163.5	5153.1	4441.7	3908.3
65°	333.6	338.8	380.5	579.4	783.6	1075.5	3420.9	5106.2	5099.3	4469.4	3906.5
67.5°	267.5	268.5	280.6	339.6	533.4	564.7	1980.7	4648.4	4627.6	4498.2	3842.3
70°	239.8	243.3	265.0	267.5	390.0	370.9	696.6	3702.5	3657.2	4270.5	3692.8
72.5°	190.3	195.4	230.2	262.3	281.4	277.9	317.9	2257.8	2275.9	3137.8	3095.2
75°	132.9	138.1	173.7	217.2	222.4	203.2	229.3	847.9	836.5	1549.8	1799.9
77.5°	82.6	85.1	108.5	156.3	206.8	134.7	159.9	245.9	263.3	480.5	491.7
80°	54.7	55.5	68.6	103.3	143.3	121.6	95.6	124.2	126.8	151.2	74.6
82.5°	30.5	31.4	43.5	65.1	86.0	107.7	61.7	74.6	79.1	93.9	40.0
85°	10.4	11.3	22.5	36.6	52.1	52.1	40.0	45.2	46.1	59.1	20.8
87.5°	0.0	0.0	5.2	9.5	8.8	3.5	8.8	6.9	6.1	9.5	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	109.5	120.7	121.6	123.3
10°	0.0	0.0	0.9	0.9	0.0	116.4	123.3	120.7	114.7	112.9	111.2
12.5°	111.2	106.9	14.7	3.5	98.2	121.6	109.5	93.9	79.1	74.6	71.2
15°	229.3	226.7	202.4	222.4	138.1	104.3	77.3	83.5	70.3	66.0	64.3
17.5°	232.8	229.3	216.3	261.4	215.5	106.0	71.2	57.3	52.1	50.3	49.5
20°	442.1	429.1	314.4	257.2	165.1	107.7	54.7	46.1	42.6	46.9	49.5
22.5°	455.3	440.3	379.7	344.9	138.1	70.3	52.1	50.3	53.0	50.3	50.3
25°	574.1	530.8	417.0	283.1	122.4	62.5	59.1	46.1	42.6	40.9	40.9
27.5°	713.3	680.1	576.0	265.8	82.6	66.0	51.3	40.0	44.2	44.2	44.2
30°	762.8	716.7	582.0	232.8	72.9	59.9	43.5	43.5	39.0	37.4	37.4
32.5°	1095.5	1028.6	747.1	163.3	66.0	50.3	43.5	36.6	35.7	38.2	38.2
35°	1220.5	1142.4	727.9	120.7	58.2	46.1	37.4	35.7	33.9	33.9	33.9
37.5°	1387.3	1295.3	668.0	89.6	54.7	39.0	33.0	31.4	32.1	33.9	34.8
40°	1605.5	1494.2	619.4	73.8	46.9	33.9	29.6	30.5	30.5	30.5	30.5
42.5°	1862.5	1708.8	547.2	66.0	40.0	30.5	26.9	26.9	27.8	27.8	27.8
45°	2157.9	1943.4	446.5	58.2	34.8	26.1	24.3	24.3	24.3	23.4	24.3
47.5°	2470.6	2197.0	338.8	51.3	29.6	23.4	21.6	20.8	20.8	20.0	20.8
50°	2781.6	2433.2	247.7	44.2	26.1	20.8	18.2	18.2	18.2	17.3	17.3
52.5°	3030.1	2593.0	175.4	38.2	22.5	18.2	15.6	14.7	14.7	14.0	14.0
55°	3238.5	2688.6	128.5	32.1	20.0	15.6	13.0	12.1	12.1	11.3	12.1
57.5°	3399.2	2748.5	97.2	26.1	17.3	13.0	10.4	9.5	9.5	9.5	9.5
60°	3534.8	2768.5	74.6	21.6	14.7	10.4	8.8	7.8	7.8	6.9	7.8
62.5°	3660.8	2763.4	61.7	19.1	13.0	8.8	6.9	6.1	5.2	4.3	5.2
64°	3714.6	2749.4	55.5	16.4	12.1	7.8	6.1	5.2	4.3	2.6	3.5
65°	3737.2	2727.8	51.3	14.7	11.3	6.9	6.1	5.2	2.6	1.7	2.6
67.5°	3718.1	2615.7	40.0	13.0	8.8	5.2	4.3	3.5	0.9	0.9	1.7
70°	3505.2	2377.6	30.5	11.3	7.8	4.3	3.5	2.6	1.7	0.9	1.7
72.5°	2752.9	1709.7	23.4	8.8	6.1	2.6	3.5	2.6	1.7	0.9	0.0
75°	1476.9	642.0	17.3	6.9	5.2	2.6	2.6	1.7	0.9	0.9	0.0
77.5°	380.5	202.4	12.1	4.3	4.3	1.7	1.7	1.7	0.9	0.9	0.0
80°	59.1	28.7	5.2	3.5	2.6	0.9	1.7	0.9	0.9	1.7	0.0
82.5°	24.3	11.3	3.5	2.6	2.6	0.0	1.7	0.9	0.9	0.9	0.0
85°	6.1	4.3	2.6	1.7	1.7	0.0	0.9	0.0	0.9	0.9	0.0
87.5°	0.9	1.7	1.7	1.7	1.7	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)