

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: P266151

Luminaire Tested: **LXF.LXT-AF24-70-D-U-T2U-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266151
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-AF24-70-D-U-T2U-7027-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 2700K, 930mA 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: 4360.7 lumens
Efficiency: N/A
Efficacy: 58.9 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): 74
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

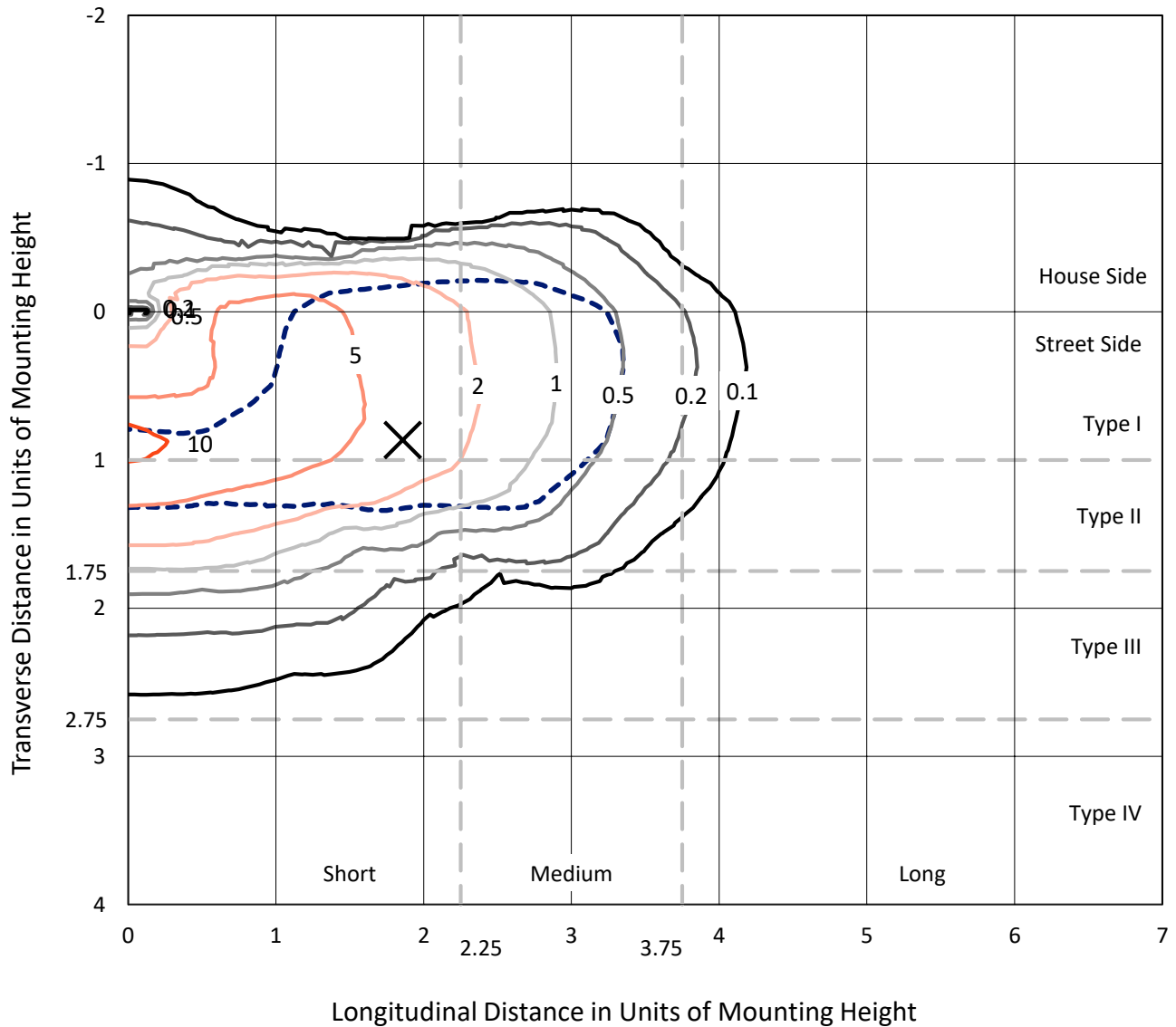


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

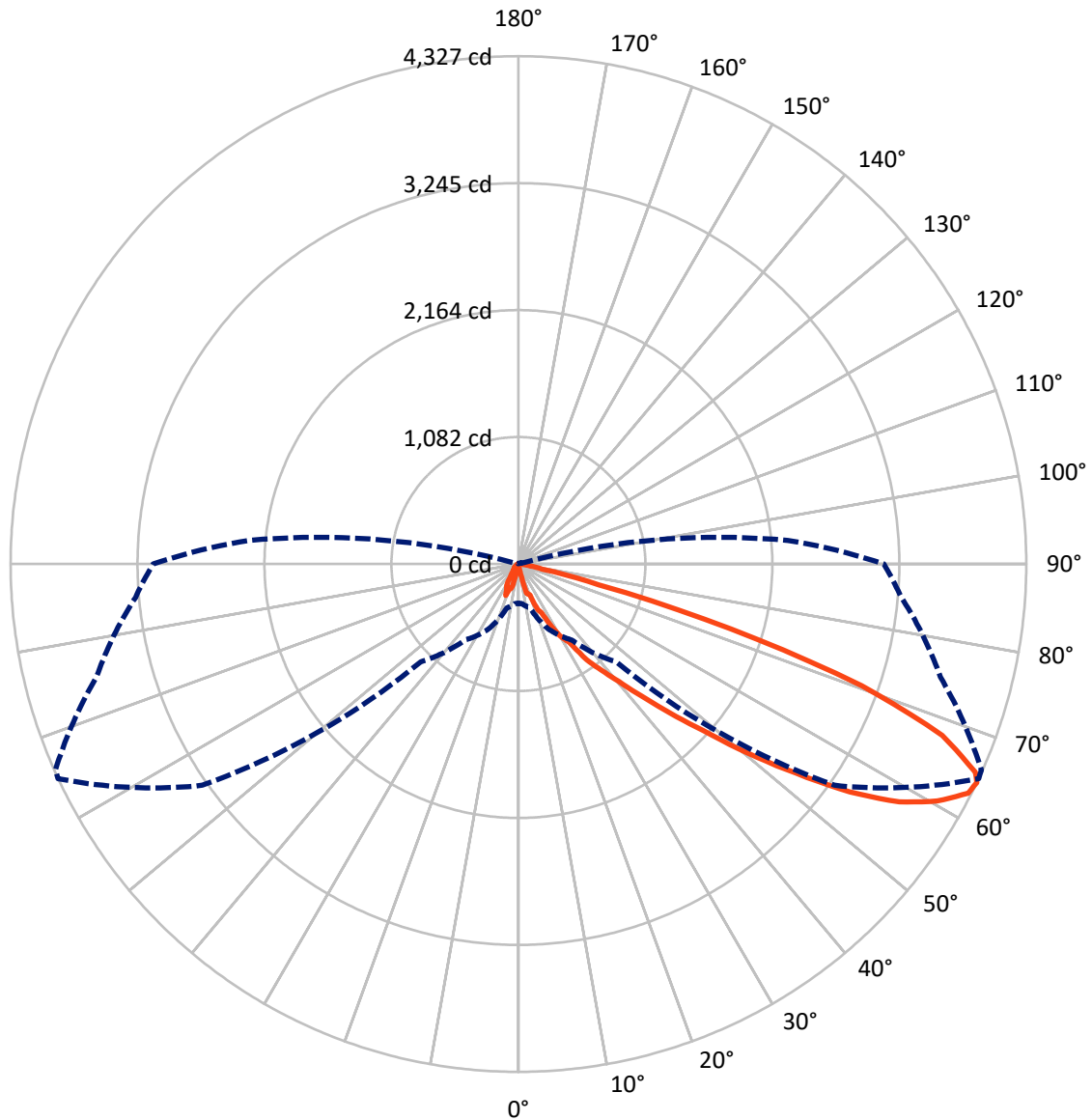


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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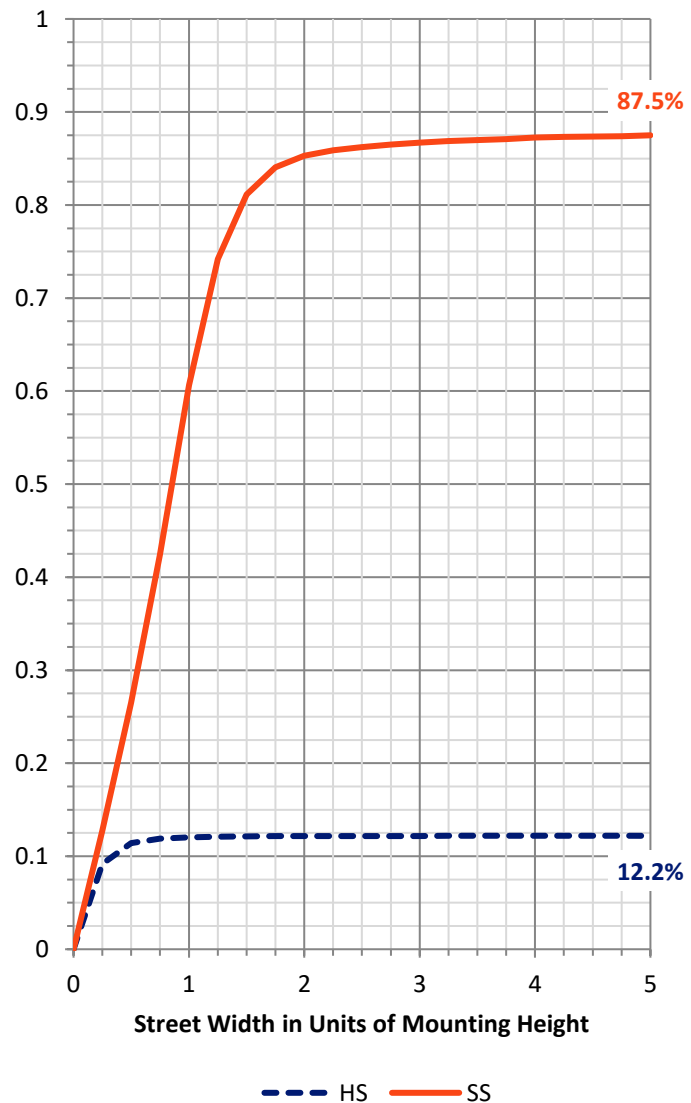
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	537.6	0.0	537.6
	% Fixture	12.3	0.0	12.3
Street Side	Lumens	3823.2	0.0	3823.2
	% Fixture	87.7	0.0	87.7
Total	Lumens	4360.7	0.0	4360.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.1
10°-20°	43.6	1.0
20°-30°	148.0	3.4
30°-40°	415.2	9.5
40°-50°	964.2	22.1
50°-60°	1347.8	30.9
60°-70°	1063.2	24.4
70°-80°	356.0	8.2
80°-90°	19.4	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°	4360.7	100.0
0°-180°	4360.7	100.0

Coefficient of Utilization



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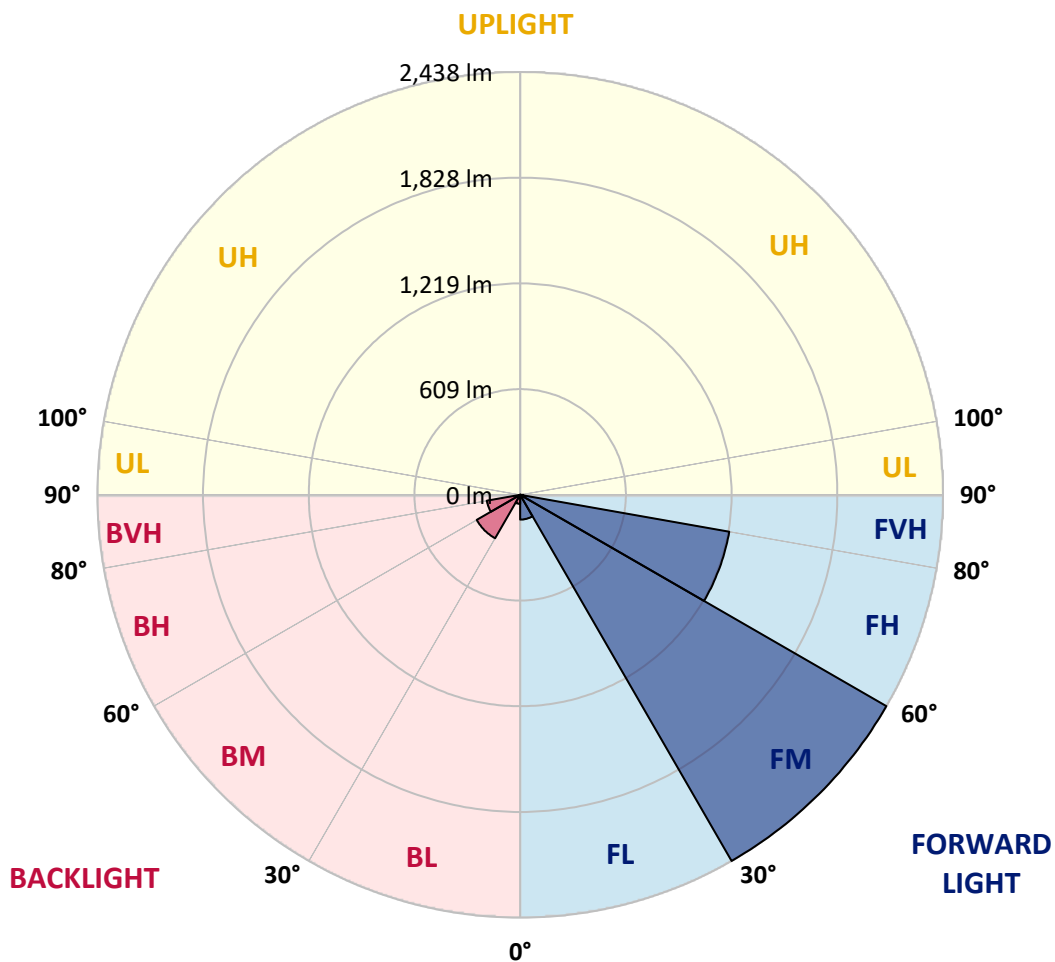
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.9	3.3			
FM (30°-60°)	2437.8	55.9			
FH (60°-80°)	1224.0	28.1			G1/1800
FVH (80°-90°)	18.4	0.4			G1/100
BL (0°-30°)	52.0	1.2	B0/110		
BM (30°-60°)	289.4	6.6	B1/1000		
BH (60°-80°)	195.2	4.5	B1/500		G1/500
BVH (80°-90°)	0.9	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°	85.9	35.7	26.9	16.8	5.1	1.4	0.7	0.0	0.0	0.0	0.0
7.5°	123.7	123.0	123.0	124.4	125.9	115.1	8.8	0.7	0.0	0.0	0.0
10°	117.9	117.1	117.1	119.4	121.6	123.7	124.4	4.4	3.0	0.0	0.0
12.5°	235.9	234.4	225.7	134.7	121.6	122.3	125.3	85.2	50.9	19.0	90.3
15°	232.2	231.6	232.2	237.3	237.3	126.8	189.3	255.5	254.8	165.9	194.4
17.5°	238.1	234.4	232.9	236.7	242.5	280.4	277.3	268.7	269.3	176.2	199.5
20°	342.9	343.6	348.7	266.4	251.2	354.6	314.4	282.4	286.7	338.5	366.9
22.5°	348.7	348.0	354.6	366.9	432.4	364.0	421.5	423.7	433.2	443.4	393.8
25°	481.9	481.2	393.8	385.8	462.3	408.4	504.5	458.7	466.6	468.0	482.6
27.5°	545.2	538.8	543.0	545.2	487.7	573.7	522.6	605.6	580.1	641.3	612.3
30°	694.5	674.1	623.9	631.9	603.5	611.4	633.3	723.6	699.6	679.8	669.0
32.5°	1015.5	1003.1	953.6	786.9	732.3	665.4	768.7	792.0	794.9	930.4	927.4
35°	1483.6	1396.2	1221.5	1098.4	877.1	869.2	852.4	1000.9	1008.2	1059.9	1059.2
37.5°	2088.5	2071.0	1822.8	1415.9	1159.0	1019.1	1060.7	1148.0	1120.4	1228.8	1230.3
40°	2456.9	2440.2	2239.3	1888.3	1480.6	1281.3	1230.9	1315.4	1268.9	1456.6	1420.3
42.5°	2722.6	2705.1	2558.8	2232.6	1950.8	1725.3	1498.9	1534.6	1504.8	1672.9	1656.8
45°	2881.3	2856.5	2793.9	2517.3	2337.5	2242.1	1885.5	1807.5	1814.8	1944.4	1927.0
47.5°	2872.5	2834.7	2850.7	2681.8	2664.4	2717.6	2366.7	2117.7	2200.6	2269.7	2224.7
50°	2645.4	2615.5	2705.9	2728.4	2878.3	3092.3	2876.2	2530.3	2634.5	2590.8	2496.8
52.5°	2224.7	2230.5	2361.6	2514.4	2915.4	3350.8	3365.4	2962.2	3103.4	2881.3	2744.4
55°	1779.2	1795.2	1938.5	2123.5	2688.4	3435.3	3773.8	3426.6	3549.6	3120.8	2923.5
57.5°	1308.1	1333.7	1513.5	1670.7	2211.5	3219.7	3975.4	3825.4	3899.0	3326.9	3063.9
60°	775.2	789.2	1027.9	1255.7	1602.2	2581.4	3967.4	4099.9	4124.7	3540.1	3176.0
62.5°	457.9	465.1	545.2	847.3	1055.6	1692.4	3665.3	4300.0	4292.8	3676.3	3253.2
64°	334.1	339.2	388.7	615.1	789.2	1178.5	3286.8	4327.0	4318.2	3722.0	3275.1
65°	279.6	284.0	318.9	485.5	656.7	901.2	2866.8	4278.9	4273.1	3745.4	3273.7
67.5°	224.1	224.9	235.1	284.7	446.9	473.1	1659.8	3895.3	3877.9	3769.4	3219.7
70°	201.0	203.8	222.1	224.1	326.9	310.9	583.8	3102.6	3064.7	3578.7	3094.7
72.5°	159.4	163.9	192.9	219.8	235.9	232.9	266.4	1892.0	1907.2	2629.3	2593.8
75°	111.4	115.7	145.5	181.9	186.4	170.4	192.1	710.5	701.0	1298.7	1508.3
77.5°	69.2	71.3	91.0	131.1	173.3	112.8	133.9	206.0	220.5	402.6	412.1
80°	45.9	46.6	57.5	86.6	120.2	101.9	80.0	104.2	106.3	126.8	62.6
82.5°	25.5	26.2	36.4	54.5	72.0	90.3	51.7	62.6	66.3	78.6	33.4
85°	8.8	9.4	19.0	30.6	43.7	43.7	33.4	37.9	38.5	49.4	17.4
87.5°	0.0	0.0	4.4	8.1	7.2	3.0	7.2	5.7	5.1	8.1	3.0
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	0.7	0.0	0.0	0.0	0.0	91.7	101.1	101.9	103.3
10°	0.0	0.0	0.7	0.7	0.0	97.6	103.3	101.1	96.1	94.6	93.2
12.5°	93.2	89.6	12.3	3.0	82.3	101.9	91.7	78.6	66.3	62.6	59.6
15°	192.1	190.0	169.6	186.4	115.7	87.3	64.8	69.9	59.0	55.3	53.9
17.5°	195.1	192.1	181.3	219.1	180.5	88.8	59.6	48.1	43.7	42.2	41.5
20°	370.6	359.6	263.6	215.5	138.2	90.3	45.9	38.5	35.7	39.3	41.5
22.5°	381.4	369.1	318.1	289.1	115.7	59.0	43.7	42.2	44.3	42.2	42.2
25°	481.2	444.8	349.4	237.3	102.6	52.5	49.4	38.5	35.7	34.2	34.2
27.5°	597.6	570.0	482.6	222.8	69.2	55.3	42.9	33.4	37.1	37.1	37.1
30°	639.1	600.5	487.7	195.1	61.2	50.2	36.4	36.4	32.8	31.4	31.4
32.5°	918.0	862.0	626.1	136.8	55.3	42.2	36.4	30.6	29.9	32.0	32.0
35°	1022.8	957.2	609.9	101.1	48.8	38.5	31.4	29.9	28.3	28.3	28.3
37.5°	1162.5	1085.4	559.9	75.0	45.9	32.8	27.7	26.2	26.9	28.3	29.1
40°	1345.3	1252.1	519.0	61.9	39.3	28.3	24.8	25.5	25.5	25.5	25.5
42.5°	1560.7	1431.9	458.7	55.3	33.4	25.5	22.5	22.5	23.3	23.3	23.3
45°	1808.3	1628.4	374.1	48.8	29.1	21.9	20.4	20.4	20.4	19.7	20.4
47.5°	2070.4	1841.0	284.0	42.9	24.8	19.7	18.1	17.4	17.4	16.8	17.4
50°	2330.9	2039.1	207.5	37.1	21.9	17.4	15.4	15.4	15.4	14.6	14.6
52.5°	2539.1	2173.0	147.1	32.0	19.0	15.4	13.1	12.3	12.3	11.7	11.7
55°	2713.8	2253.0	107.7	26.9	16.8	13.1	10.9	10.2	10.2	9.4	10.2
57.5°	2848.5	2303.3	81.6	21.9	14.6	10.9	8.8	8.1	8.1	8.1	8.1
60°	2962.2	2320.1	62.6	18.1	12.3	8.8	7.2	6.6	6.6	5.7	6.6
62.5°	3067.6	2315.7	51.7	16.0	10.9	7.2	5.7	5.1	4.4	3.7	4.4
64°	3112.7	2304.1	46.6	13.8	10.2	6.6	5.1	4.4	3.7	2.2	3.0
65°	3131.8	2285.7	42.9	12.3	9.4	5.7	5.1	4.4	2.2	1.4	2.2
67.5°	3115.7	2191.9	33.4	10.9	7.2	4.4	3.7	3.0	0.7	0.7	1.4
70°	2937.3	1992.4	25.5	9.4	6.6	3.7	3.0	2.2	1.4	0.7	1.4
72.5°	2306.8	1432.6	19.7	7.2	5.1	2.2	3.0	2.2	1.4	0.7	0.0
75°	1237.5	537.9	14.6	5.7	4.4	2.2	2.2	1.4	0.7	0.7	0.0
77.5°	318.9	169.6	10.2	3.7	3.7	1.4	1.4	1.4	0.7	0.7	0.0
80°	49.4	24.1	4.4	3.0	2.2	0.7	1.4	0.7	0.7	1.4	0.0
82.5°	20.4	9.4	3.0	2.2	2.2	0.0	1.4	0.7	0.7	0.7	0.0
85°	5.1	3.7	2.2	1.4	1.4	0.0	0.7	0.0	0.7	0.7	0.0
87.5°	0.7	1.4	1.4	1.4	1.4	0.0	0.7	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)