

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: P253992

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1806-803-16-90°)
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
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
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: 8259.3 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1.17' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - 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

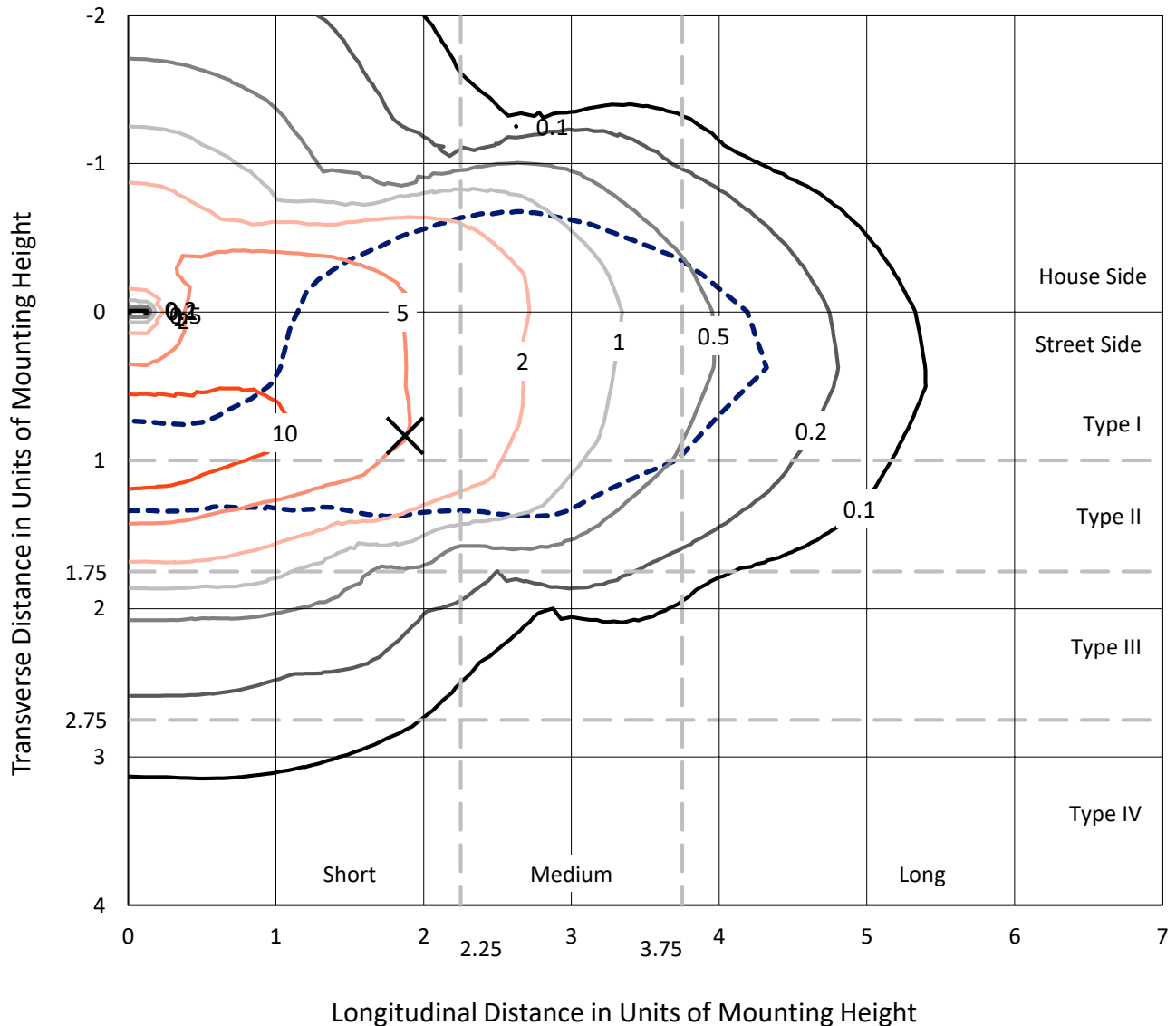


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

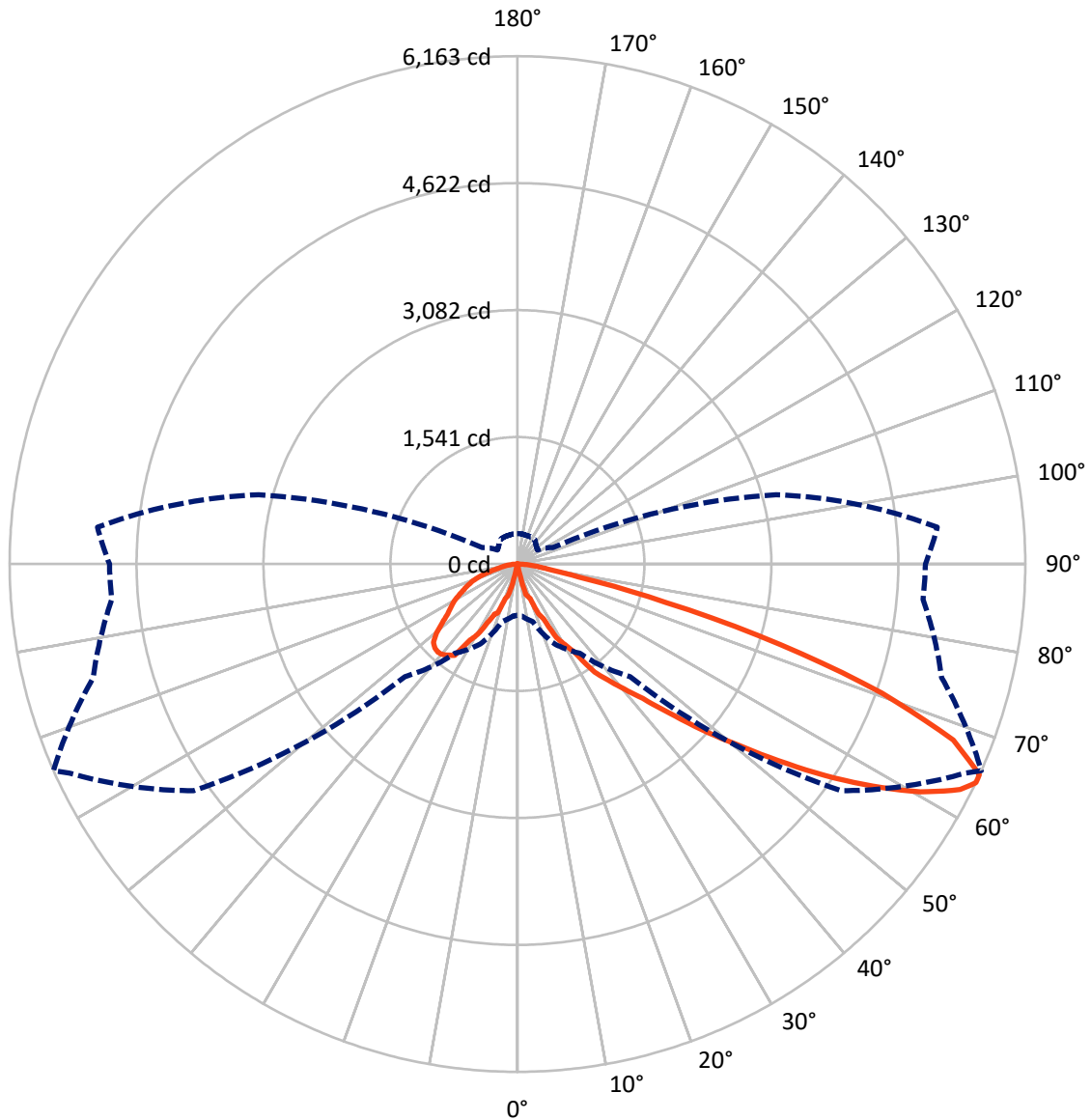


Based on 10 foot mounting height. Maximum calculated value = 16.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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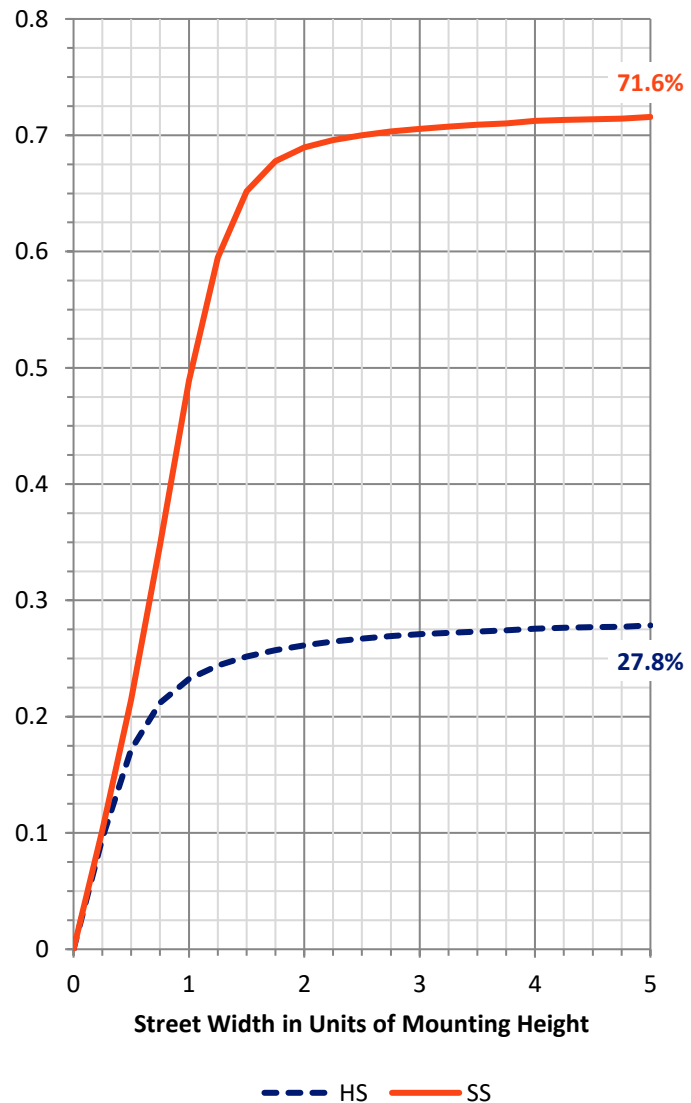
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2326.2	0.0	2326.2
	% Fixture	28.2	0.0	28.2
Street Side	Lumens	5933.1	0.0	5933.1
	% Fixture	71.8	0.0	71.8
Total	Lumens	8259.3	0.0	8259.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	91.1	1.1
20°-30°	353.9	4.3
30°-40°	875.3	10.6
40°-50°	1646.4	19.9
50°-60°	2184.2	26.4
60°-70°	1966.4	23.8
70°-80°	1004.1	12.2
80°-90°	131.6	1.6
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°	8259.3	100.0
0°-180°	8259.3	100.0



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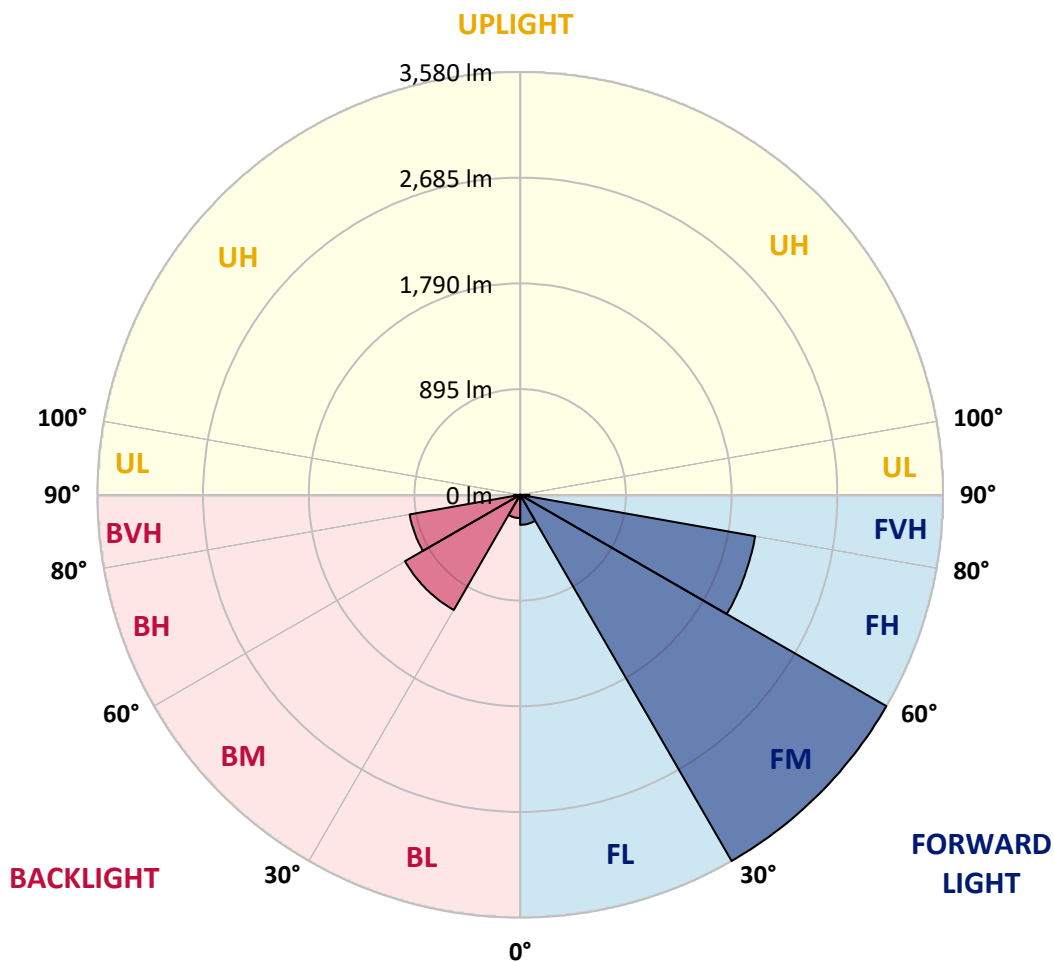
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.3	3.1			
FM	(30°-60°)	3580.0	43.3			
FH	(60°-80°)	2020.1	24.5			G2/5000
FVH	(80°-90°)	78.7	1.0			G1/100
BL	(0°-30°)	196.9	2.4	B1/500		
BM	(30°-60°)	1125.9	13.6	B2/2500		
BH	(60°-80°)	950.5	11.5	B2/1000		G2/1000
BVH	(80°-90°)	52.9	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	3.8	2.8	3.8	4.7	4.7	3.8	2.8	0.9	0.9	0.0	0.0
5°	176.2	172.5	120.0	46.9	24.3	13.1	6.5	2.8	1.8	0.9	0.9
7.5°	183.6	183.6	183.6	185.6	181.8	176.2	30.0	6.5	5.6	1.8	0.9
10°	187.4	186.5	184.6	186.5	184.6	184.6	180.9	23.4	21.6	7.5	5.6
12.5°	352.3	350.5	339.2	219.3	192.1	192.1	193.0	157.4	158.4	50.6	130.2
15°	368.3	367.3	362.6	364.5	353.3	210.8	296.1	379.5	383.3	266.2	300.8
17.5°	409.5	402.9	388.0	383.3	378.6	432.0	414.2	413.3	413.3	310.2	327.0
20°	633.5	625.0	616.6	498.5	416.0	550.0	508.8	447.0	450.7	528.6	560.4
22.5°	728.1	721.6	708.4	681.3	710.3	593.2	622.3	651.3	655.0	690.6	637.2
25°	991.4	997.1	927.7	794.6	856.5	738.5	797.5	718.7	738.5	750.6	788.1
27.5°	1282.9	1263.2	1241.7	1130.2	974.6	1038.3	879.0	939.9	1013.0	1023.3	959.6
30°	1633.3	1606.1	1434.7	1422.5	1247.3	1168.5	1136.7	1153.6	1133.8	1074.8	1075.7
32.5°	2060.6	2044.8	1969.8	1739.2	1578.1	1340.1	1384.1	1264.2	1275.4	1397.2	1417.8
35°	2654.8	2627.6	2269.6	2145.9	1826.4	1719.6	1548.0	1597.7	1610.8	1587.4	1560.2
37.5°	3336.0	3311.7	3030.6	2527.3	2207.8	1962.2	1910.8	1822.6	1788.0	1792.6	1802.0
40°	3738.1	3721.2	3472.8	3053.0	2593.9	2335.2	2167.5	2046.6	1992.3	2060.6	2041.0
42.5°	4025.7	4001.4	3859.0	3449.4	3120.5	2862.8	2477.7	2318.3	2230.2	2377.4	2310.8
45°	4198.2	4161.6	4091.3	3719.3	3551.6	3460.6	2894.6	2635.1	2569.6	2680.0	2631.3
47.5°	4145.7	4085.7	4129.8	3909.5	3902.0	3989.2	3382.0	3000.5	2998.7	3038.1	3001.5
50°	3820.5	3777.5	3908.6	3932.9	4119.4	4408.1	3976.1	3412.0	3434.5	3419.4	3377.3
52.5°	3218.9	3228.2	3436.3	3636.9	4100.7	4657.3	4564.6	3896.4	3958.3	3793.3	3724.0
55°	2595.7	2627.6	2851.6	3101.8	3803.6	4717.3	5076.2	4431.5	4534.5	4157.0	4050.1
57.5°	1969.8	2012.9	2280.0	2467.4	3211.5	4510.2	5379.8	4934.7	5085.6	4503.6	4353.7
60°	1253.8	1280.0	1609.0	1923.9	2395.2	3809.3	5451.1	5447.3	5615.1	4856.0	4623.6
62.5°	811.5	826.5	966.2	1386.9	1665.2	2659.5	5218.7	5859.7	6031.1	5198.9	4855.0
64°	621.3	634.4	723.4	1070.1	1321.3	1933.2	4796.0	6001.1	6163.3	5329.3	4941.3
65°	539.8	548.2	613.8	872.5	1124.5	1516.2	4380.0	6004.8	6160.4	5366.7	4956.3
67.5°	448.9	451.6	476.1	552.0	794.6	845.3	2764.4	5558.8	5705.0	5286.1	4837.2
70°	406.7	412.4	444.2	449.8	613.8	584.7	1029.9	4573.9	4692.0	5069.6	4573.0
72.5°	350.5	357.0	398.2	432.0	475.1	463.9	521.0	3212.4	3337.9	4389.4	4272.1
75°	285.8	292.4	331.7	381.4	398.2	364.5	409.5	1650.2	1861.1	3244.2	3823.3
77.5°	226.8	233.3	264.2	299.8	359.0	279.3	327.0	632.5	756.3	2015.7	2844.1
80°	161.2	164.9	197.7	226.8	270.8	241.7	238.0	345.8	363.6	1001.8	1431.8
82.5°	99.3	102.2	132.2	151.8	180.9	241.7	170.5	238.0	243.7	420.7	438.5
85°	55.2	57.2	79.7	86.2	100.2	122.8	114.4	130.2	134.0	187.4	110.6
87.5°	6.5	8.4	18.7	20.7	18.7	20.7	20.7	18.7	19.6	16.9	9.4
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°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
2.5°	0.9	0.9	0.9	1.8	1.8	0.9	0.0	0.0	0.0	0.0	0.0
5°	0.9	0.9	1.8	1.8	2.8	2.8	3.8	5.6	5.6	5.6	6.5
7.5°	0.9	0.9	1.8	2.8	3.8	9.4	46.9	162.1	182.7	189.2	189.2
10°	5.6	5.6	5.6	6.5	18.7	182.7	205.2	211.8	214.6	214.6	216.5
12.5°	143.4	143.4	76.8	30.0	171.4	213.7	218.3	223.0	225.9	228.6	232.4
15°	302.7	303.6	295.2	289.6	305.5	230.6	233.3	375.7	391.7	398.2	399.2
17.5°	328.9	327.0	328.9	418.9	441.4	344.8	385.1	411.4	414.2	415.1	415.1
20°	590.3	587.6	466.7	443.2	452.7	572.5	415.1	416.0	466.7	541.7	565.1
22.5°	633.5	627.9	594.1	647.5	594.1	584.7	527.5	545.4	562.2	560.4	559.5
25°	798.4	782.5	655.0	669.1	752.5	592.3	633.5	526.6	536.0	538.8	539.8
27.5°	982.0	963.3	921.2	787.2	767.5	740.3	593.2	550.0	611.0	612.8	609.1
30°	1049.5	1024.3	963.3	984.9	820.9	698.2	568.9	582.0	551.0	550.0	551.0
32.5°	1426.3	1380.4	1262.2	1067.3	866.8	631.6	560.4	519.1	553.8	563.2	563.2
35°	1560.2	1500.3	1398.2	1339.1	831.2	612.8	491.0	501.3	503.2	501.3	502.3
37.5°	1736.5	1657.7	1564.9	1364.4	856.5	533.2	468.5	464.8	501.3	507.9	510.8
40°	1941.7	1866.7	1780.4	1385.0	768.4	490.1	448.9	464.8	475.1	477.0	478.8
42.5°	2202.2	2098.2	1982.9	1381.3	654.1	470.5	445.1	445.1	457.3	453.6	453.6
45°	2499.2	2366.2	2173.2	1345.7	541.7	452.7	435.8	429.2	434.9	427.3	427.3
47.5°	2832.9	2686.7	2315.6	1290.4	477.0	436.7	427.3	406.7	419.8	418.0	418.0
50°	3186.1	3033.4	2448.6	1165.8	436.7	422.6	405.8	401.1	418.0	414.2	413.3
52.5°	3525.3	3393.2	2549.8	996.1	402.0	409.5	398.2	396.4	411.4	407.6	406.7
55°	3850.5	3773.7	2676.3	852.7	371.1	386.1	395.5	395.5	404.8	401.1	401.1
57.5°	4167.2	4182.2	2826.3	754.3	347.7	367.3	391.7	390.8	396.4	393.5	394.6
60°	4489.6	4587.0	2976.2	661.5	328.9	345.8	384.2	382.4	385.1	384.2	385.1
62.5°	4795.1	4955.4	3158.0	542.6	308.3	328.9	372.0	373.9	373.0	375.7	375.7
64°	4951.6	5115.6	3248.0	473.2	296.1	318.6	362.6	365.5	364.5	370.1	369.2
65°	5012.5	5174.6	3279.8	432.0	288.6	312.0	356.1	359.9	359.0	365.5	362.6
67.5°	4995.6	5105.2	3241.4	356.1	268.9	294.2	338.3	344.8	342.1	351.4	344.8
70°	4818.5	4727.7	2936.9	310.2	253.0	274.6	315.8	324.3	319.6	328.9	317.6
72.5°	4486.8	4080.1	2285.6	268.9	235.2	254.9	290.5	298.9	295.2	298.9	286.7
75°	3752.1	3146.7	1337.2	233.3	211.8	227.7	260.5	268.9	265.1	256.8	252.1
77.5°	2608.8	1989.4	528.6	204.3	190.3	199.6	222.1	229.6	223.9	208.1	205.2
80°	1244.4	887.4	254.0	177.1	164.9	170.5	181.8	184.6	183.6	167.8	160.2
82.5°	381.4	290.5	175.2	142.4	134.0	132.2	143.4	139.6	137.8	126.5	99.3
85°	86.2	85.3	98.4	88.1	84.3	75.9	86.2	83.4	81.5	60.9	52.5
87.5°	2.8	5.6	4.7	12.2	13.1	10.3	16.9	17.8	13.1	5.6	0.9
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)