

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: P416679

Luminaire Tested: **LXF.LXT-PA1-80-727-U-T4W-HSS**

Issue Date: 10/26/2020

Test Information

Test Method: LM-79-08
Report Number: P416679
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-PA1-80-727-U-T4W-HSS
Description: DECORATIVE POST TOP LUMINAIRE
(1) 70 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: 5775 lumens
Efficiency: N/A
Efficacy: 69.6 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

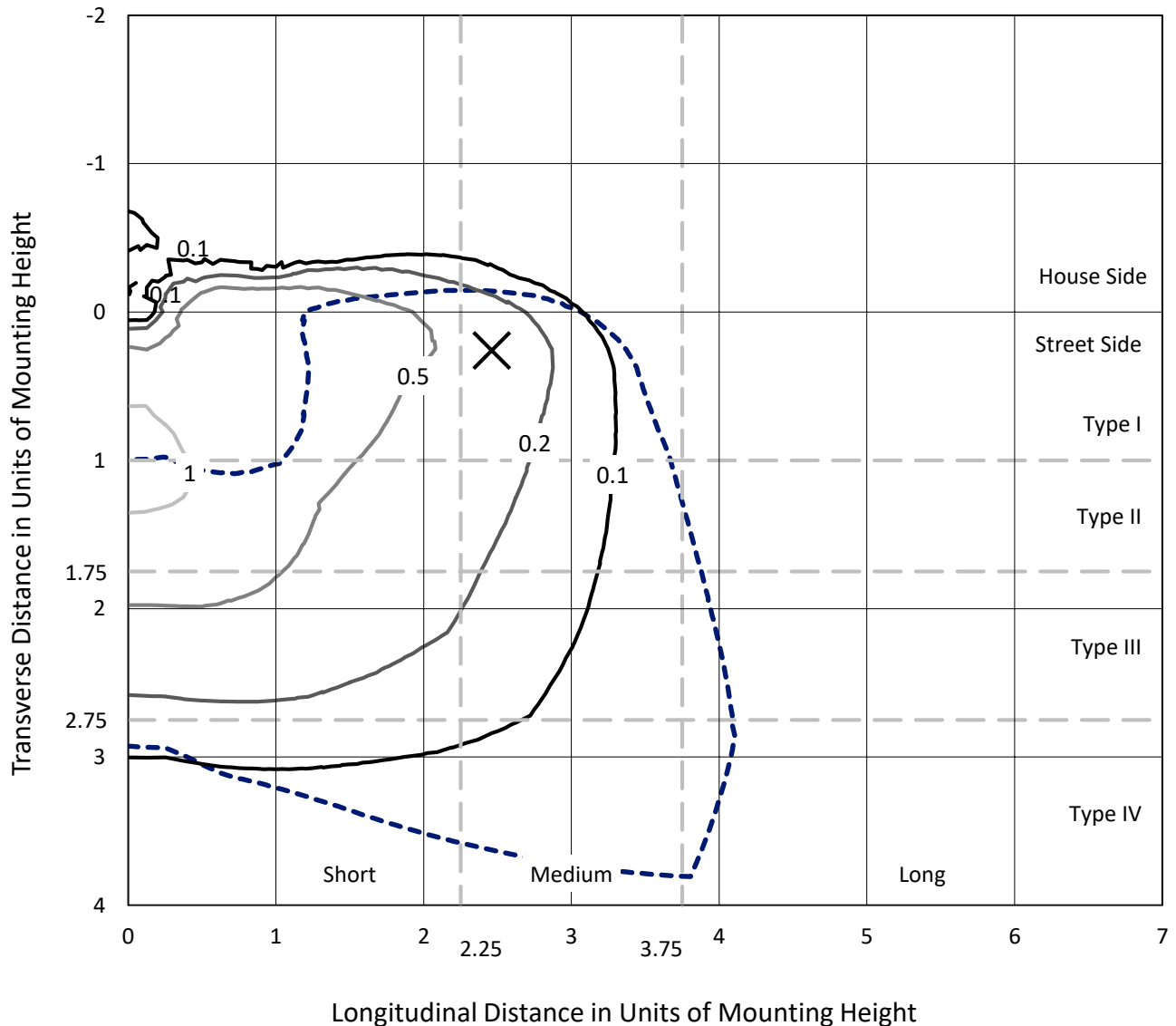
Input Watts (W): 83
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

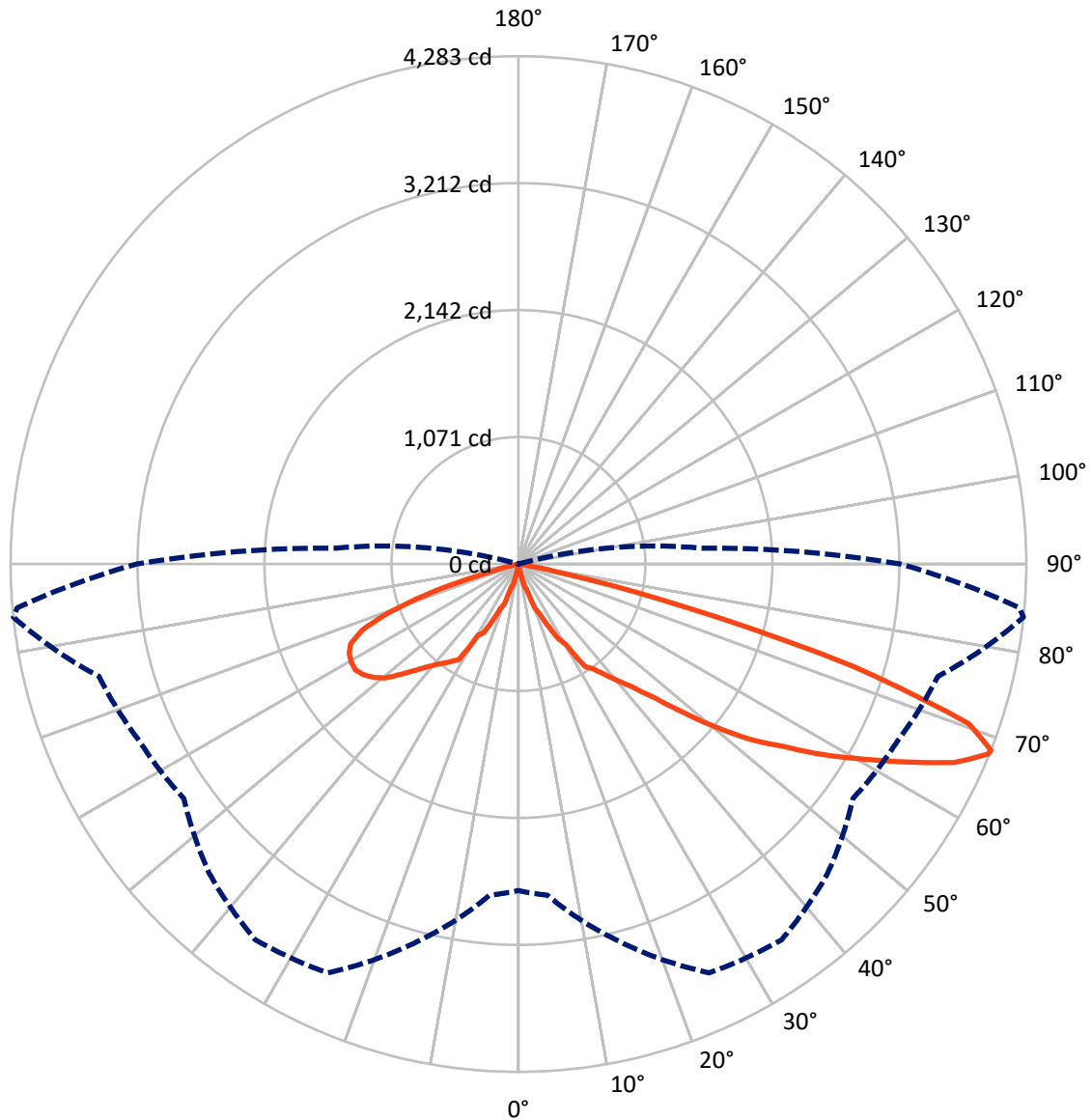
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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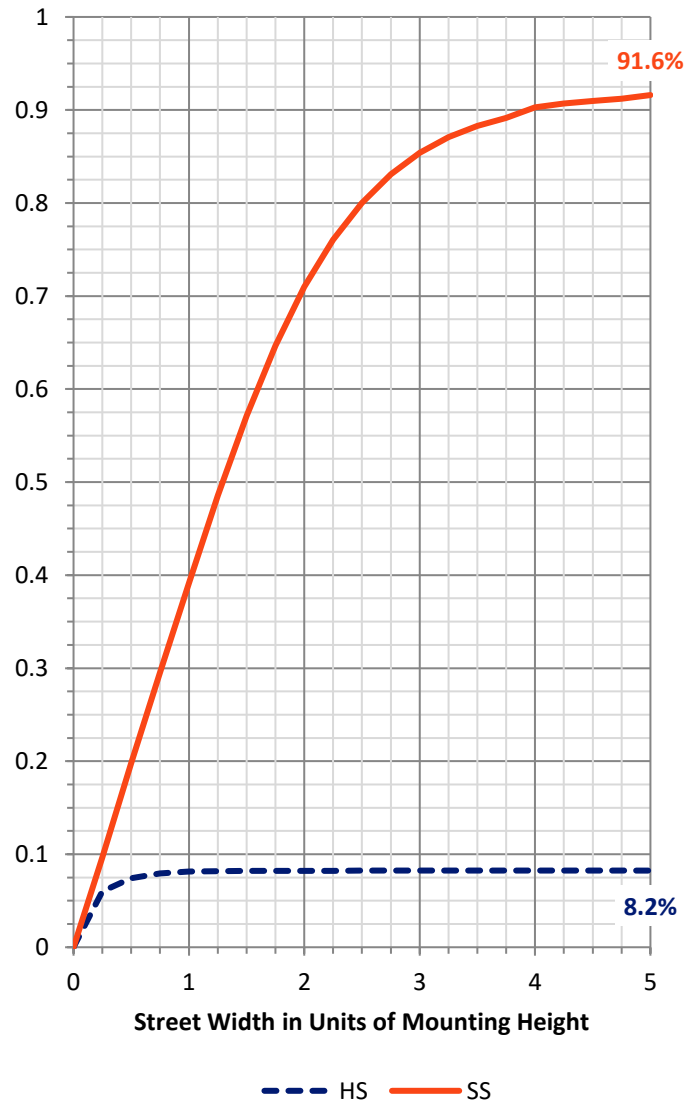
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	479.9	0.0	479.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	5295.1	0.0	5295.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	5775.0	0.0	5775.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.1
10°-20°	52.3	0.9
20°-30°	187.2	3.2
30°-40°	399.9	6.9
40°-50°	714.6	12.4
50°-60°	1267.8	22.0
60°-70°	1822.0	31.6
70°-80°	1226.6	21.2
80°-90°	100.8	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°	5775.0	100.0
0°-180°	5775.0	100.0



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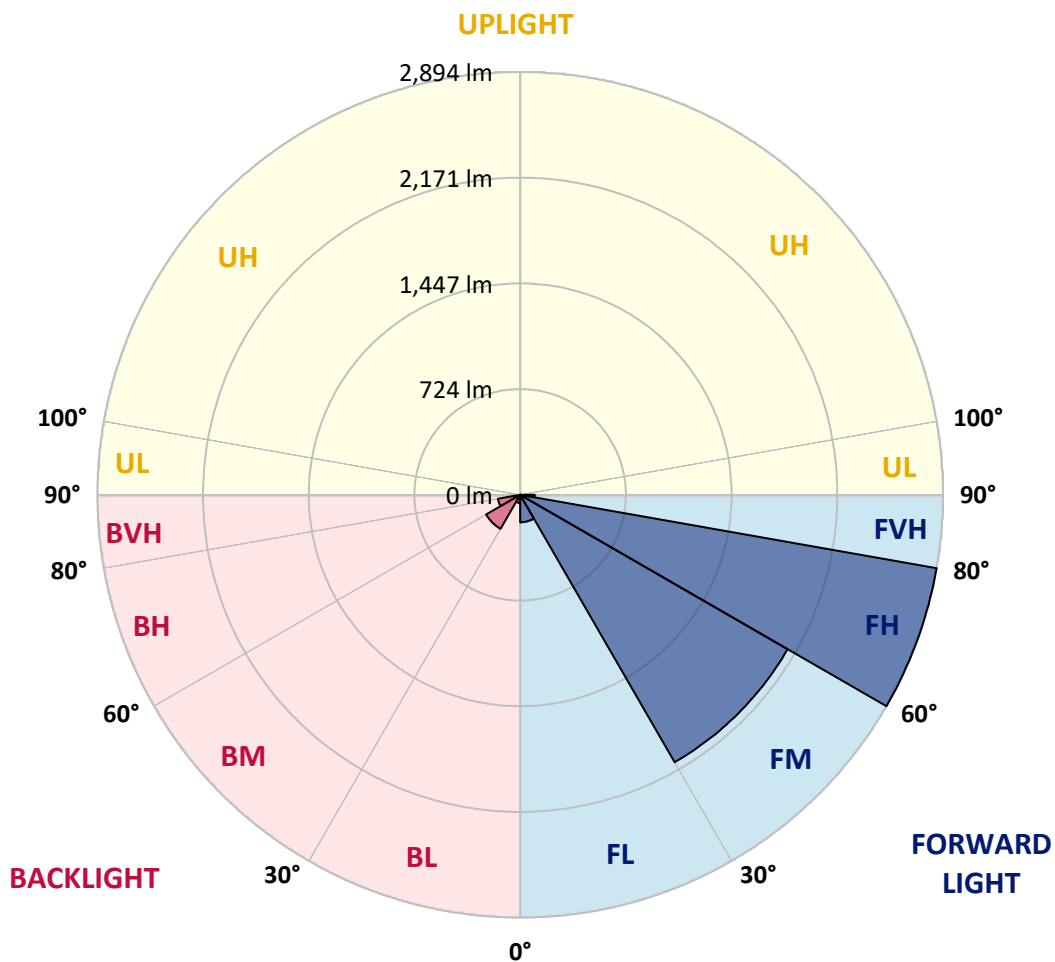
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	188.3	3.3			
FM	(30°-60°)	2113.4	36.6			
FH	(60°-80°)	2894.1	50.1			G2/5000
FVH	(80°-90°)	99.3	1.7			G1/100
BL	(0°-30°)	55.0	1.0	B0/110		
BM	(30°-60°)	268.9	4.7	B1/1000		
BH	(60°-80°)	154.5	2.7	B1/500		G1/500
BVH	(80°-90°)	1.5	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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	0.8	0.8	0.0	0.8	0.8	1.7	1.7	2.5	2.5	2.5	2.5
5°	44.3	37.6	36.8	32.6	23.4	5.9	1.7	2.5	2.5	2.5	2.5
7.5°	158.9	156.4	154.7	151.4	148.0	113.8	22.6	2.5	2.5	2.5	2.5
10°	170.6	167.3	164.8	160.6	155.6	149.7	143.0	18.4	2.5	2.5	2.5
12.5°	353.0	348.8	241.7	199.9	164.8	156.4	151.4	78.6	72.8	82.8	94.5
15°	371.4	368.0	358.8	347.1	312.0	176.5	237.5	295.3	192.4	204.9	204.9
17.5°	414.0	407.3	375.5	358.0	343.8	378.1	347.1	316.2	207.4	220.0	220.0
20°	579.6	578.0	568.8	397.3	361.3	478.4	378.1	337.1	383.1	399.8	380.6
22.5°	584.7	583.0	576.3	553.7	567.9	491.8	542.8	509.4	522.8	456.7	453.3
25°	775.4	768.7	615.6	563.7	640.7	524.4	645.7	562.1	552.0	570.4	570.4
27.5°	789.6	787.9	782.9	750.3	657.4	742.7	664.9	727.7	741.9	705.1	724.3
30°	899.1	843.9	814.7	795.4	774.5	779.5	776.2	837.2	772.8	787.9	779.5
32.5°	1046.3	1041.3	1026.3	848.1	860.7	813.8	905.0	895.8	999.5	1032.1	1027.1
35°	1251.3	1171.0	1073.1	981.1	893.3	966.9	935.1	1042.2	1068.1	1083.2	1114.1
37.5°	1431.1	1405.2	1314.0	1040.5	989.5	995.3	1069.8	1116.6	1155.1	1181.8	1195.2
40°	1595.9	1576.6	1515.6	1216.1	1041.3	1080.6	1141.7	1167.6	1243.7	1293.1	1293.9
42.5°	1840.1	1851.8	1794.9	1375.1	1181.8	1200.2	1252.1	1256.3	1324.0	1422.7	1426.1
45°	2145.4	2129.5	2115.3	1605.9	1315.7	1304.0	1375.9	1365.9	1470.4	1609.3	1626.0
47.5°	2439.8	2417.2	2378.8	1871.9	1501.4	1420.2	1520.6	1529.0	1692.1	1869.4	1876.1
50°	2667.3	2658.9	2620.5	2181.4	1748.1	1580.8	1681.2	1779.9	1953.0	2166.3	2180.5
52.5°	2918.2	2899.0	2831.2	2471.6	2065.1	1822.5	1873.6	2046.7	2228.2	2462.4	2460.7
55°	3085.5	3088.0	3023.6	2767.7	2352.8	2096.0	2116.1	2382.1	2479.1	2718.3	2735.9
57.5°	3308.0	3289.6	3307.2	3115.6	2742.6	2373.7	2420.6	2650.6	2737.6	3032.8	3044.5
60°	3473.6	3480.3	3567.3	3436.8	3044.5	2656.4	2696.6	2869.7	2995.2	3340.6	3377.4
62.5°	3479.5	3515.4	3749.6	3758.8	3371.6	2962.6	2936.6	3093.9	3204.3	3675.2	3719.5
65°	3160.8	3182.5	3710.3	3844.1	3675.2	3262.8	3165.0	3282.9	3410.9	4037.4	4045.7
67.5°	2841.3	2848.0	3357.4	3819.1	3857.5	3623.3	3408.4	3489.5	3613.3	4275.7	4246.5
68°	2754.3	2804.5	3296.3	3804.8	3869.2	3688.6	3445.2	3528.8	3662.6	4283.3	4242.3
70°	2496.7	2550.2	3002.7	3645.9	3863.4	3934.5	3646.7	3658.5	3693.6	4030.7	3899.3
72.5°	1678.7	1714.6	2376.2	3103.1	3737.9	4220.5	3871.7	3581.5	3313.9	2955.0	2838.8
75°	645.7	649.9	1197.7	2132.8	3231.9	4077.5	3634.2	3019.4	2250.8	1438.6	1350.8
77.5°	240.9	236.7	347.1	988.6	2051.7	3168.3	2713.3	1851.0	937.6	377.2	368.9
80°	85.3	87.8	134.7	297.8	833.9	1851.0	1510.6	753.6	276.0	83.6	76.9
82.5°	33.5	36.0	68.6	141.4	358.0	777.0	644.9	320.3	161.4	31.8	30.1
85°	7.5	8.4	26.8	70.3	136.3	225.0	226.7	195.7	133.8	15.1	14.2
87.5°	0.8	1.7	7.5	9.2	10.9	5.9	19.2	20.1	36.8	5.9	5.9
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°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
2.5°	2.5	2.5	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
5°	2.5	2.5	2.5	1.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0
7.5°	2.5	2.5	2.5	1.7	0.8	0.8	0.0	73.6	76.1	78.6	79.5
10°	2.5	2.5	2.5	1.7	1.7	76.9	90.3	87.0	81.1	78.6	79.5
12.5°	91.2	88.7	28.4	5.9	70.3	84.5	69.4	57.7	51.9	47.7	47.7
15°	199.1	191.5	159.8	122.1	114.6	65.2	44.3	37.6	55.2	66.9	66.9
17.5°	211.6	202.4	179.0	177.3	116.3	56.9	46.0	59.4	62.7	66.1	66.1
20°	409.8	367.2	252.6	169.8	85.3	69.4	57.7	56.9	59.4	63.6	64.4
22.5°	439.1	418.2	317.8	205.8	77.8	75.3	66.9	63.6	85.3	92.8	92.8
25°	557.9	537.8	342.1	163.9	94.5	76.9	84.5	79.5	81.1	87.8	87.8
27.5°	713.5	676.7	449.2	138.0	87.8	83.6	86.2	79.5	93.7	111.2	111.2
30°	790.4	716.8	429.9	122.1	89.5	91.2	82.8	97.0	97.0	103.7	104.6
32.5°	1054.7	1003.7	484.3	102.9	89.5	83.6	90.3	92.0	90.3	117.1	117.9
35°	1122.5	1061.4	414.9	107.1	85.3	81.1	81.1	91.2	97.0	102.9	103.7
37.5°	1205.3	1125.8	326.2	100.4	88.7	78.6	74.4	77.8	85.3	100.4	101.2
40°	1310.7	1196.1	250.9	94.5	82.8	71.9	67.7	71.1	71.1	75.3	76.1
42.5°	1452.8	1279.7	185.7	90.3	77.8	66.1	59.4	55.2	52.7	51.9	52.7
45°	1647.7	1386.8	138.8	86.2	74.4	58.5	49.3	40.1	33.5	33.5	34.3
47.5°	1879.4	1506.4	112.9	79.5	69.4	50.2	37.6	25.9	20.9	21.7	22.6
50°	2126.2	1632.7	98.7	73.6	63.6	41.0	25.1	15.9	13.4	14.2	15.1
52.5°	2354.5	1714.6	92.8	67.7	56.0	31.8	15.9	10.9	10.0	10.0	10.9
55°	2583.7	1776.5	87.8	61.9	45.2	20.9	9.2	8.4	8.4	7.5	7.5
57.5°	2797.0	1813.3	79.5	53.5	31.8	12.5	6.7	6.7	5.9	5.9	5.9
60°	2992.7	1809.2	63.6	40.1	20.1	7.5	5.0	5.0	4.2	4.2	4.2
62.5°	3192.6	1790.8	45.2	28.4	13.4	5.0	3.3	3.3	2.5	1.7	2.5
65°	3313.0	1738.9	30.1	20.1	8.4	3.3	2.5	1.7	0.8	0.0	0.8
67.5°	3262.8	1588.3	22.6	15.1	5.9	2.5	1.7	0.8	0.0	0.0	0.0
68°	3216.8	1540.7	20.9	14.2	5.0	2.5	1.7	0.8	0.0	0.0	0.0
70°	2854.7	1283.9	18.4	11.7	4.2	2.5	1.7	0.8	0.0	0.0	0.0
72.5°	1904.5	833.9	15.1	9.2	3.3	1.7	1.7	0.8	0.0	0.0	0.0
75°	878.2	267.7	11.7	7.5	2.5	1.7	1.7	0.8	0.0	0.0	0.0
77.5°	234.2	56.9	7.5	5.0	2.5	1.7	1.7	0.8	0.8	0.8	0.0
80°	56.0	17.6	5.0	4.2	2.5	1.7	1.7	0.8	0.8	0.8	0.0
82.5°	20.9	9.2	3.3	3.3	2.5	1.7	1.7	0.8	1.7	1.7	0.0
85°	9.2	5.9	3.3	3.3	2.5	1.7	1.7	1.7	1.7	2.5	0.0
87.5°	4.2	4.2	3.3	3.3	3.3	1.7	2.5	2.5	2.5	2.5	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)