

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: P239618

Luminaire Tested: **UTLD-AF24-60-D-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P239618
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-60-D-U-T2U
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
PHOTOMETRIC DATA REPORTED FOR LOWER HEMISPHERE ONLY. MINIMAL LIGHT IN
UPPER HEMISPHERE NOT REPORTED.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6587 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 64
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

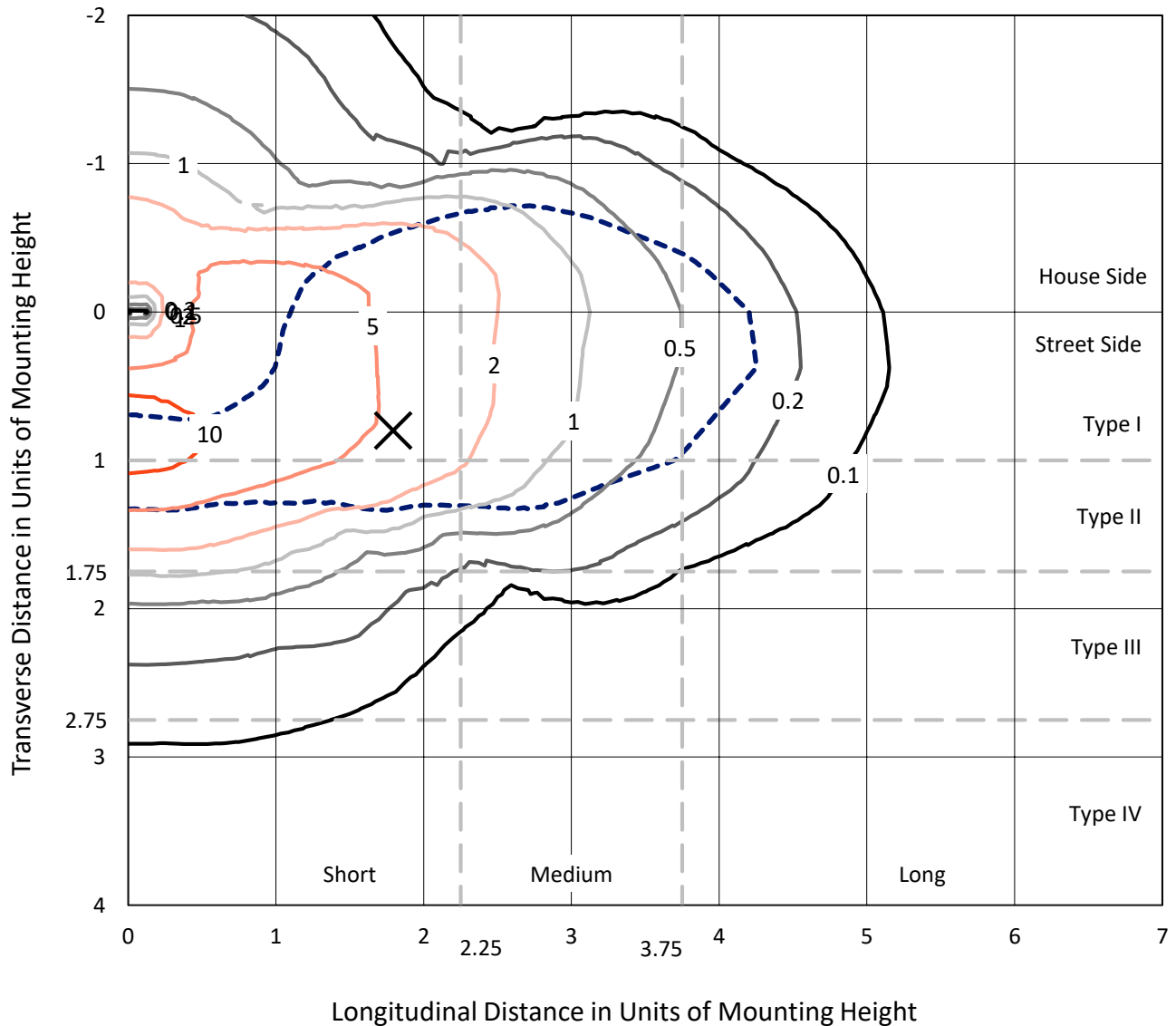


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

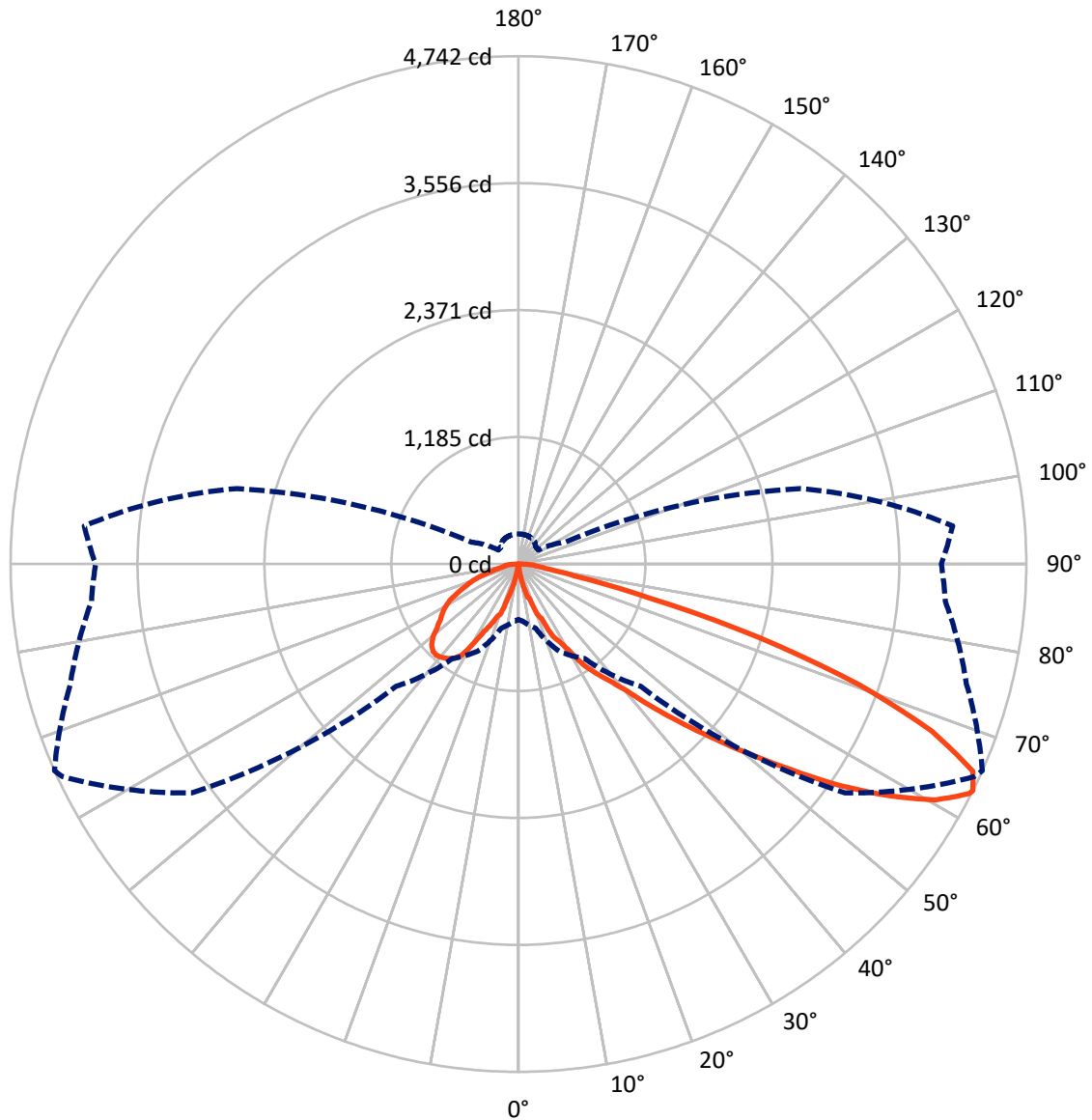


Based on 10 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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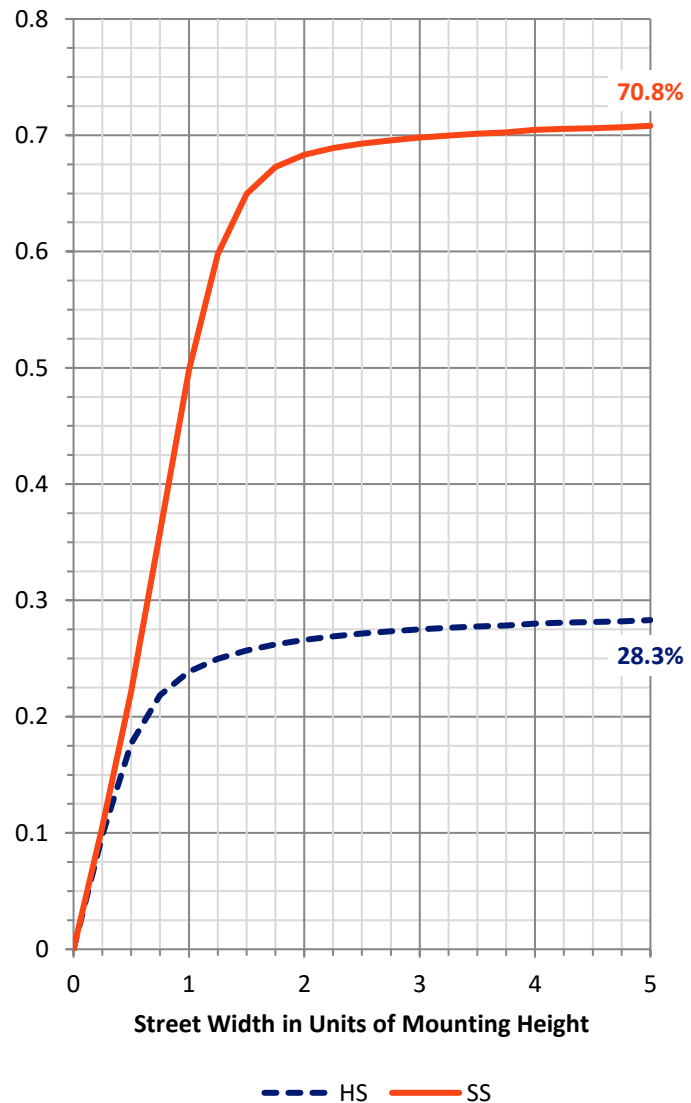
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1897.1	0.0	1897.1
	% Fixture	28.8	0.0	28.8
Street Side	Lumens	4689.9	0.0	4689.9
	% Fixture	71.2	0.0	71.2
Total	Lumens	6587.0	0.0	6587.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.1
10°-20°	87.0	1.3
20°-30°	319.8	4.9
30°-40°	727.8	11.0
40°-50°	1310.5	19.9
50°-60°	1710.8	26.0
60°-70°	1520.0	23.1
70°-80°	772.1	11.7
80°-90°	132.7	2.0
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°	6587.0	100.0
0°-180°	6587.0	100.0



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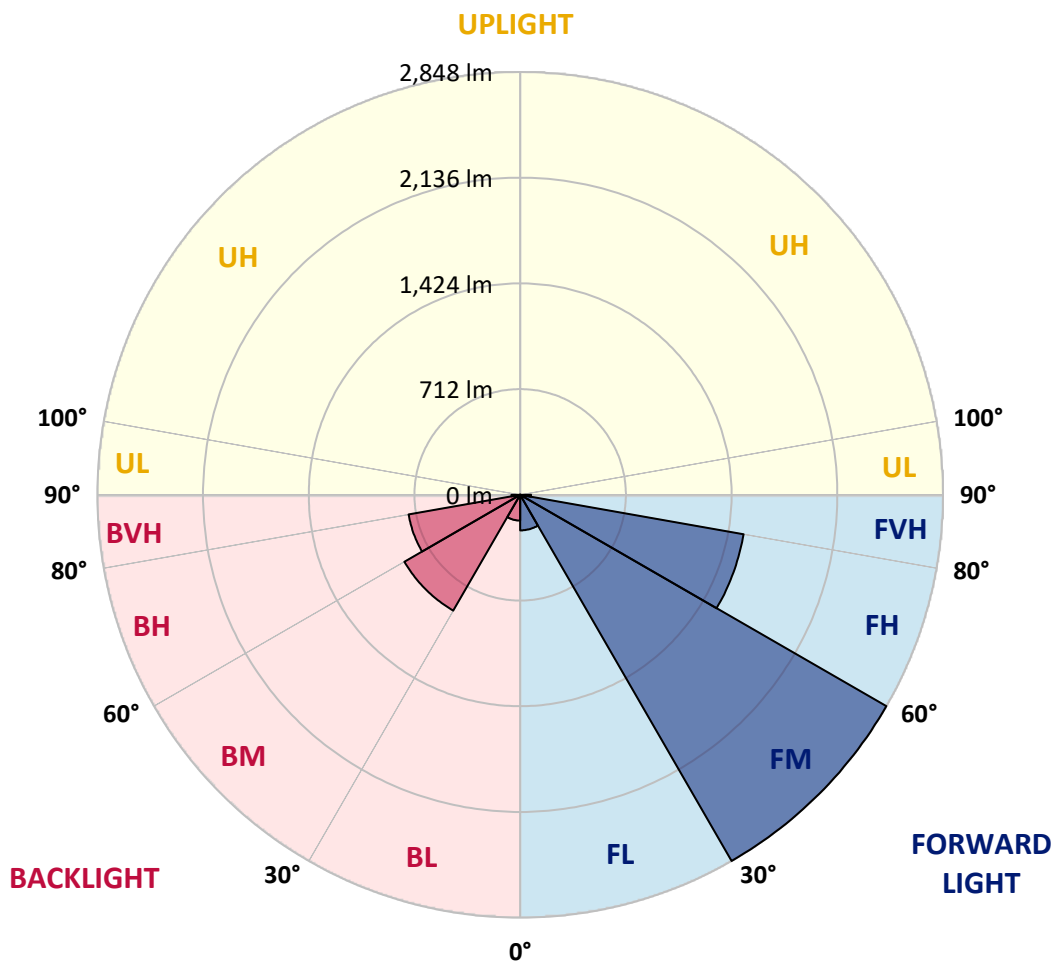
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.5	3.6			
FM	(30°-60°)	2848.2	43.2			
FH	(60°-80°)	1528.5	23.2			G1/1800
FVH	(80°-90°)	73.6	1.1			G1/100
BL	(0°-30°)	173.6	2.6	B1/500		
BM	(30°-60°)	900.8	13.7	B1/1000		
BH	(60°-80°)	763.6	11.6	B2/1000		G2/1000
BVH	(80°-90°)	59.1	0.9			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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	16.6	16.6	14.3	11.3	9.1	7.5	5.3	3.8	3.8	2.3	1.5
5°	152.4	152.4	151.6	150.9	149.4	143.3	26.4	8.3	7.5	3.8	2.3
7.5°	155.4	154.6	154.6	153.1	152.4	149.4	147.1	57.3	48.3	8.3	4.5
10°	278.3	276.8	274.6	185.6	156.9	153.1	152.4	119.9	119.2	25.6	18.9
12.5°	290.4	291.2	288.9	286.6	280.6	175.8	168.2	217.2	221.0	254.2	197.6
15°	331.1	326.6	310.0	299.5	294.2	276.1	314.6	313.8	315.3	298.0	226.3
17.5°	469.9	468.4	464.7	436.0	323.6	414.9	396.8	337.9	342.5	390.7	390.7
20°	530.3	529.5	516.0	500.1	555.2	447.3	426.2	496.3	500.1	505.4	467.7
22.5°	796.6	795.8	763.4	586.9	623.8	561.2	564.2	565.7	552.2	544.6	585.4
25°	924.0	918.0	899.9	847.1	740.0	747.5	617.0	742.3	748.3	743.8	734.7
27.5°	1303.5	1304.2	1153.4	999.5	908.2	841.1	848.6	823.7	823.0	809.4	845.6
30°	1519.2	1508.7	1455.8	1306.5	1084.0	994.2	952.7	968.6	944.4	1029.7	1022.9
32.5°	2027.6	2027.6	1845.1	1516.2	1306.5	1232.6	1107.3	1111.9	1130.0	1117.9	1135.3
35°	2385.2	2351.2	2170.9	1903.9	1481.5	1385.7	1311.0	1245.4	1252.9	1231.8	1248.4
37.5°	2764.6	2730.7	2531.5	2189.1	1790.8	1620.3	1482.2	1400.8	1381.9	1383.4	1396.3
40°	3059.5	3040.7	2918.5	2540.6	2096.3	1870.7	1682.9	1572.0	1551.6	1588.6	1630.1
42.5°	3265.5	3257.9	3185.5	2852.1	2456.8	2250.2	1969.5	1808.9	1812.6	1832.3	1873.7
45°	3347.7	3330.3	3328.1	3049.0	2782.0	2677.9	2344.4	2078.9	2092.5	2146.1	2154.4
47.5°	3257.9	3221.7	3287.3	3130.4	3052.0	3058.8	2772.9	2427.4	2413.8	2465.1	2460.6
50°	2929.0	2917.0	3042.9	3067.8	3185.5	3341.7	3242.8	2815.9	2776.7	2781.2	2750.3
52.5°	2419.1	2448.5	2614.5	2788.0	3122.9	3494.8	3663.0	3226.2	3192.3	3096.5	3036.9
55°	1944.6	1980.1	2159.6	2294.7	2805.3	3484.2	3970.0	3636.6	3655.5	3409.5	3298.7
57.5°	1423.4	1469.4	1707.8	1821.7	2298.4	3230.0	4126.2	4036.4	4082.4	3718.8	3547.6
60°	909.7	927.1	1167.7	1394.0	1672.3	2631.8	4111.1	4418.1	4473.1	4052.2	3779.2
62.5°	568.0	586.9	665.3	981.4	1182.8	1784.0	3819.9	4671.5	4722.1	4291.4	3972.3
63°	517.5	539.3	620.1	896.9	1077.9	1614.3	3723.3	4697.2	4741.7	4331.3	4000.9
65°	385.5	394.5	436.8	605.0	791.3	1013.8	3049.0	4607.4	4663.2	4365.3	4012.3
67.5°	336.4	340.2	355.3	399.0	565.7	589.9	1776.4	4127.7	4162.4	4237.0	3869.7
70°	307.8	310.0	337.2	340.2	443.5	418.7	651.7	3242.8	3374.1	3976.8	3621.5
72.5°	267.0	270.0	301.7	331.1	344.0	332.7	352.3	2189.8	2348.2	3397.5	3349.2
75°	223.3	226.3	254.2	293.4	299.5	264.0	288.9	1147.3	1259.7	2490.8	2929.8
77.5°	183.3	185.6	210.5	237.6	275.3	202.9	234.6	432.2	535.6	1538.8	2109.1
80°	126.0	132.0	159.2	184.1	210.5	184.1	175.8	247.4	261.8	746.8	1077.9
82.5°	95.8	97.3	123.7	134.3	148.6	181.8	138.0	186.3	196.9	347.7	350.0
85°	66.4	64.9	87.5	93.5	103.3	114.7	115.4	135.8	140.3	200.7	147.1
87.5°	30.2	28.7	47.5	46.0	52.0	56.6	82.2	74.7	76.2	126.0	79.2
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°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
2.5°	1.5	1.5	1.5	2.3	2.3	2.3	1.5	0.8	0.8	0.8	0.8
5°	1.5	1.5	1.5	2.3	2.3	3.0	3.8	3.8	4.5	5.3	5.3
7.5°	3.8	3.0	3.0	3.0	4.5	6.8	18.1	78.4	137.3	144.8	147.1
10°	16.6	16.6	12.1	9.8	11.3	123.7	159.9	165.2	168.2	169.7	169.7
12.5°	205.9	230.1	215.0	115.4	124.5	153.9	171.2	175.0	179.5	218.0	225.5
15°	250.4	252.7	255.0	236.9	328.1	242.1	202.2	305.5	310.8	313.0	312.3
17.5°	380.2	387.0	357.6	318.3	348.5	360.6	294.2	322.1	327.4	331.9	331.9
20°	493.3	494.1	463.2	495.6	423.9	439.0	383.2	363.6	466.9	471.5	470.7
22.5°	608.0	617.0	510.7	528.8	557.4	465.4	484.3	431.5	454.1	454.1	453.3
25°	752.8	749.8	700.0	611.8	585.4	550.7	497.1	450.3	512.2	541.6	541.6
27.5°	892.4	849.4	729.4	703.8	671.3	577.8	491.1	516.7	502.4	506.2	505.4
30°	1053.8	1041.0	932.3	838.1	689.5	561.2	513.7	467.7	492.6	522.0	519.0
32.5°	1135.3	1102.1	972.3	1012.3	722.6	540.9	447.3	439.8	447.3	457.9	459.4
35°	1242.4	1188.1	1060.6	1068.1	727.9	474.5	398.3	393.8	435.2	454.9	457.1
37.5°	1380.4	1315.5	1208.4	1093.0	683.4	418.7	353.0	377.9	392.2	401.3	398.3
40°	1557.7	1480.7	1400.8	1099.8	608.7	361.3	328.1	348.5	362.1	364.3	364.3
42.5°	1774.9	1668.6	1598.4	1096.0	511.4	331.1	311.5	327.4	344.7	343.2	341.7
45°	2031.4	1903.2	1759.8	1070.4	416.4	314.6	303.2	313.8	326.6	321.3	319.1
47.5°	2308.2	2170.2	1902.4	1018.3	354.5	302.5	298.7	298.7	313.0	311.5	310.8
50°	2588.8	2447.0	2051.8	938.4	320.6	291.9	283.6	293.4	310.0	307.0	305.5
52.5°	2866.4	2739.0	2167.9	827.5	299.5	282.9	277.6	290.4	305.5	302.5	301.7
55°	3122.2	3039.9	2292.4	739.2	277.6	267.0	277.6	288.2	300.2	297.2	297.2
57.5°	3386.2	3362.0	2447.8	669.1	259.5	255.0	274.6	284.4	294.2	292.7	292.7
60°	3650.9	3717.3	2590.4	594.4	245.2	240.6	268.5	279.9	288.2	287.4	287.4
62.5°	3906.6	4029.6	2702.7	506.9	231.6	229.3	261.0	273.8	280.6	282.1	282.1
63°	3948.1	4069.6	2719.3	481.3	228.6	227.8	259.5	272.3	278.3	280.6	280.6
65°	4025.1	4166.9	2745.7	396.0	215.7	219.5	251.2	267.0	270.8	276.1	274.6
67.5°	3955.7	4074.1	2667.3	305.5	199.9	207.4	238.4	255.7	259.5	267.0	263.3
70°	3800.3	3792.7	2401.8	248.9	187.8	194.6	224.0	242.9	244.4	251.9	244.4
72.5°	3507.6	3242.1	1892.6	211.2	175.8	181.8	208.9	227.1	227.8	230.8	223.3
75°	2932.1	2521.7	1137.5	182.5	160.7	165.2	192.4	207.4	209.7	205.2	201.4
77.5°	2002.0	1585.6	518.2	159.9	147.1	147.8	172.0	185.6	186.3	176.5	176.5
80°	963.3	743.0	215.7	143.3	133.5	130.5	150.9	161.4	160.7	149.4	144.8
82.5°	304.7	271.6	160.7	125.2	119.2	112.4	131.3	135.8	136.5	137.3	110.1
85°	121.4	126.0	124.5	103.3	100.3	85.2	104.9	110.9	108.6	91.3	77.7
87.5°	63.4	77.7	76.2	69.4	71.7	54.3	72.4	69.4	70.9	47.5	37.0
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)