

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: P266541

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-7027-HSS**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-100-D-U-T2U-7027-HSS
Description: TRADITIONAIRE LED DOWNLIGHT 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.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5148.9 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
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

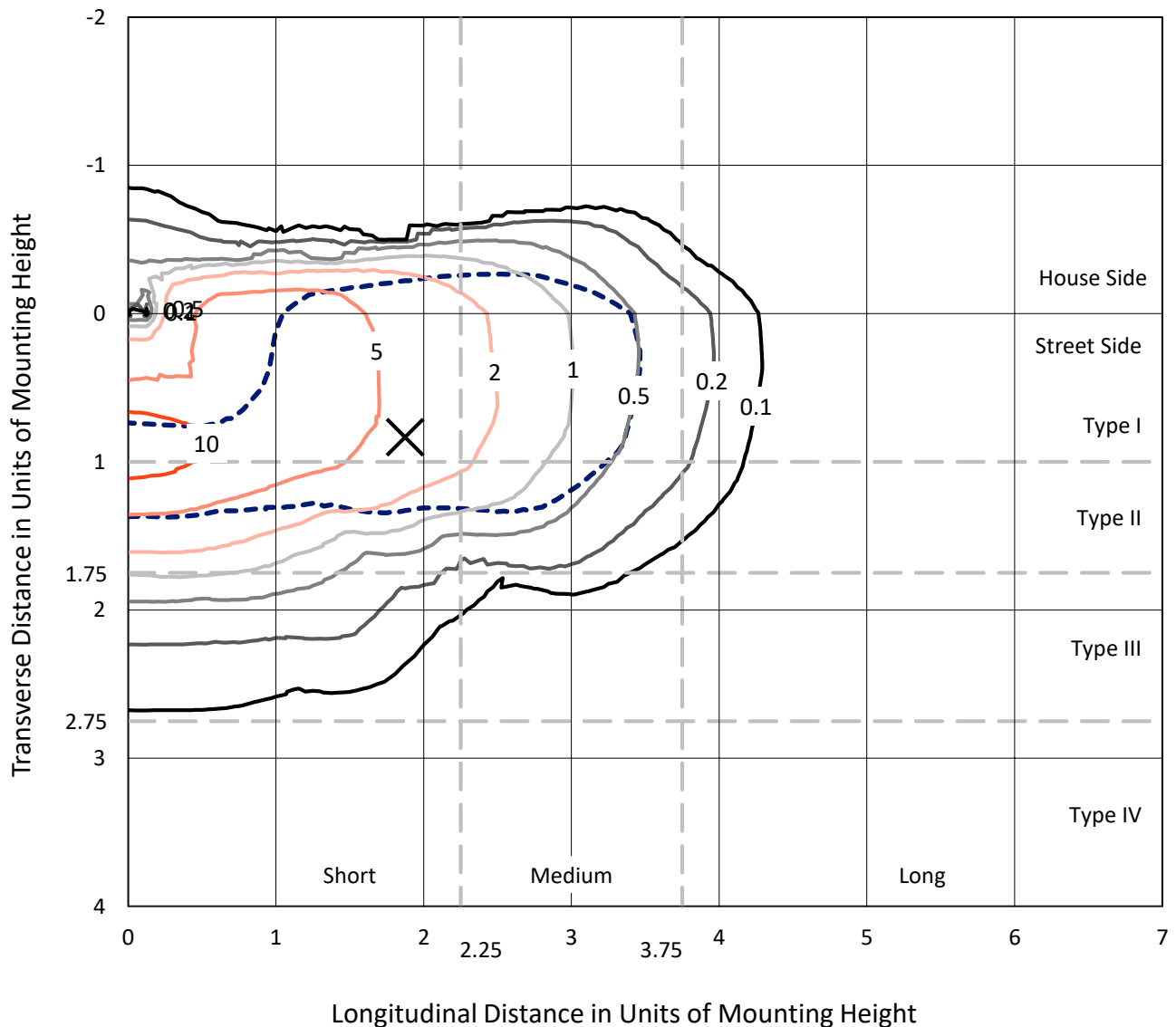


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

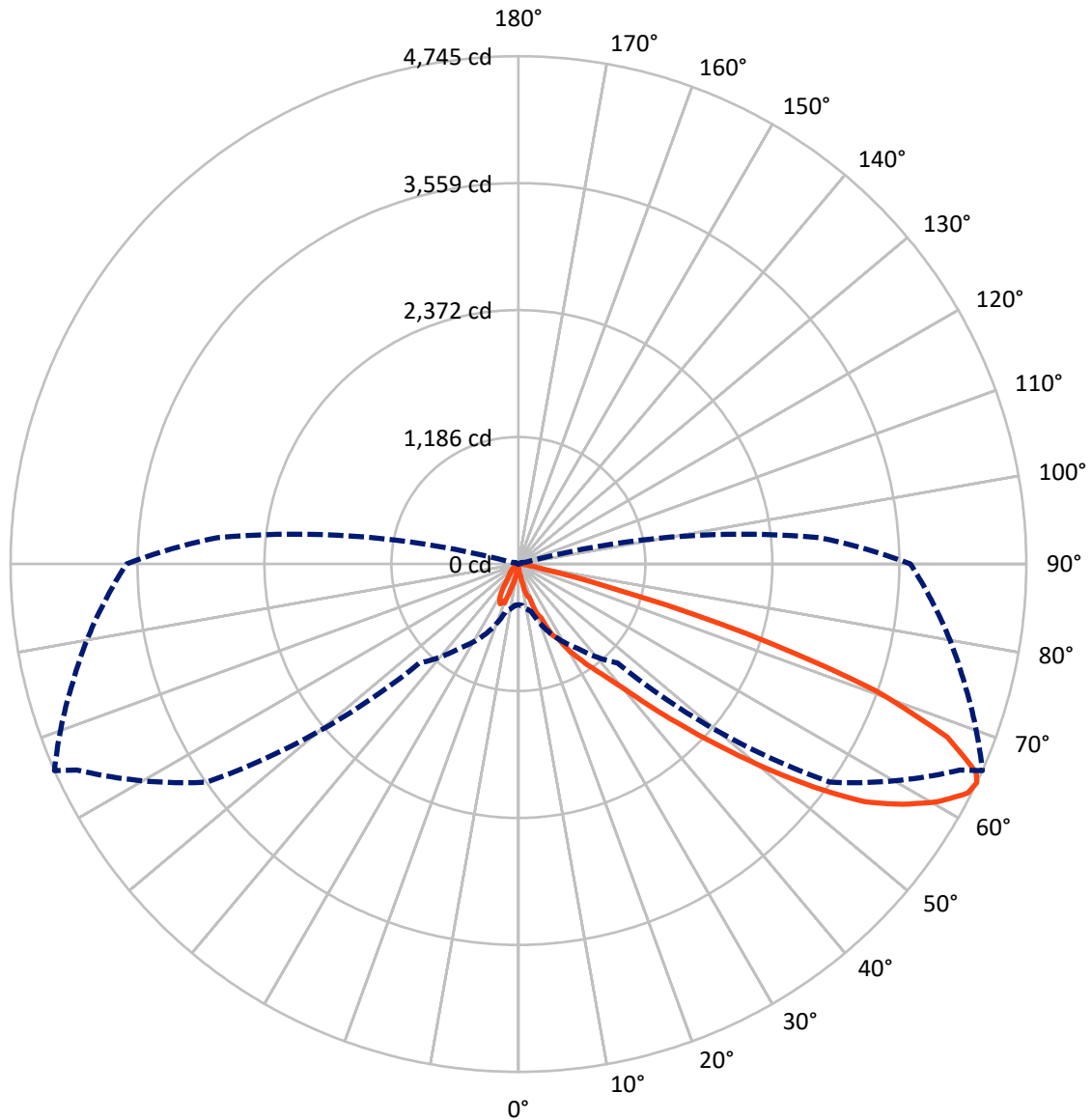


Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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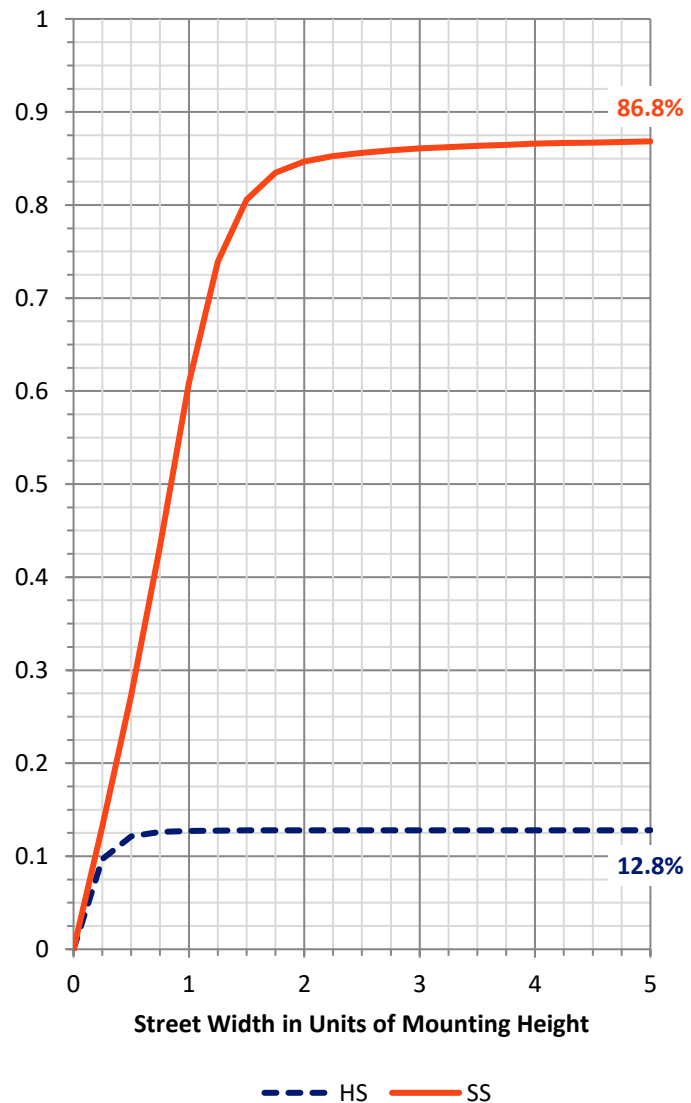
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	667.2	0.0	667.2
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	4481.7	0.0	4481.7
	% Fixture	87.0	0.0	87.0
Total	Lumens	5148.9	0.0	5148.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.9	0.1
10°-20°	67.2	1.3
20°-30°	208.9	4.1
30°-40°	524.5	10.2
40°-50°	1137.5	22.1
50°-60°	1540.2	29.9
60°-70°	1210.7	23.5
70°-80°	428.2	8.3
80°-90°	25.8	0.5
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°	5148.9	100.0
0°-180°	5148.9	100.0

Coefficient of Utilization



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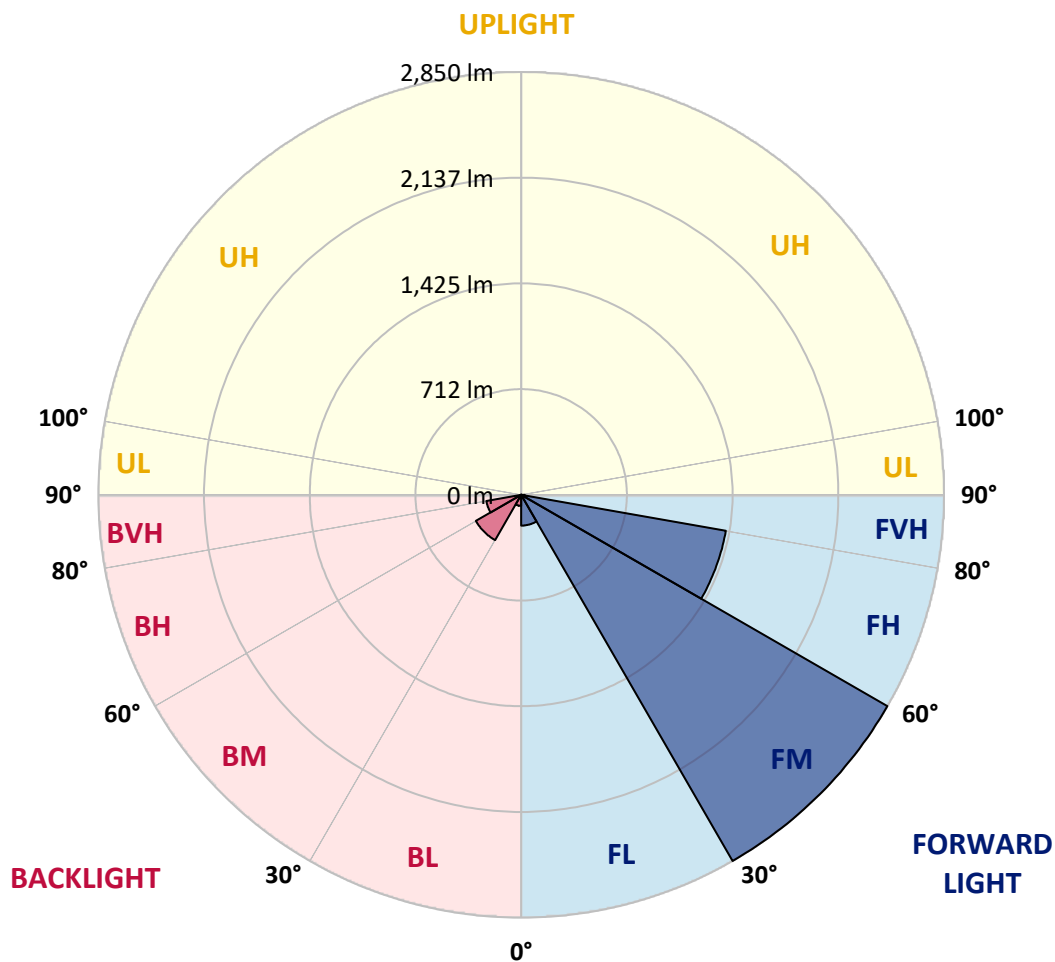
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.4	4.0			
FM	(30°-60°)	2849.8	55.3			
FH	(60°-80°)	1400.5	27.2			G1/1800
FVH	(80°-90°)	24.0	0.5			G1/100
BL	(0°-30°)	74.5	1.4	B0/110		
BM	(30°-60°)	352.4	6.8	B1/1000		
BH	(60°-80°)	238.4	4.6	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	19.1	18.2	15.6	12.1	4.3	2.6	0.0	0.0	0.0	0.0	0.0
5°	154.8	155.6	156.6	156.6	156.6	155.6	59.1	4.3	3.5	0.0	0.0
7.5°	150.5	151.3	151.3	151.3	152.2	152.2	152.2	147.0	120.8	2.6	0.0
10°	284.4	285.2	286.9	208.6	155.6	149.6	149.6	121.7	117.4	15.6	6.1
12.5°	280.0	280.8	282.5	283.4	285.2	189.5	158.2	217.4	232.1	301.7	197.4
15°	323.5	338.2	305.2	286.1	286.1	268.7	318.2	307.8	308.7	313.9	202.6
17.5°	423.5	422.7	426.1	429.5	313.9	393.8	413.0	322.6	326.1	366.1	372.2
20°	438.3	440.0	435.6	442.5	519.1	413.8	413.0	492.1	488.7	489.5	440.9
22.5°	596.5	598.2	604.3	501.8	542.5	512.2	539.2	549.6	549.6	514.8	519.1
25°	641.7	638.2	644.4	634.7	639.1	619.1	582.6	701.7	734.8	702.6	699.2
27.5°	891.3	883.5	865.2	707.8	695.6	657.3	767.8	786.8	787.8	781.6	810.5
30°	1055.6	1058.2	1007.8	922.5	773.9	757.4	848.5	919.1	943.4	1023.3	999.0
32.5°	1574.6	1542.5	1399.0	1095.6	955.5	891.3	944.3	1079.9	1063.5	1116.5	1116.5
35°	2058.9	2002.4	1784.3	1476.5	1118.2	992.9	1121.7	1163.3	1195.6	1240.7	1256.4
37.5°	2542.5	2519.8	2291.9	1873.8	1440.7	1160.8	1266.0	1346.0	1342.4	1401.6	1432.1
40°	2972.0	2943.2	2792.8	2370.3	1825.0	1414.7	1469.4	1548.6	1542.5	1654.7	1696.4
42.5°	3291.8	3272.9	3174.5	2746.7	2299.8	1845.9	1773.8	1807.7	1829.4	1949.4	1992.0
45°	3466.6	3432.9	3404.0	3045.9	2712.8	2363.4	2176.4	2135.5	2161.6	2279.8	2309.5
47.5°	3429.3	3387.6	3428.4	3224.0	3076.2	2815.5	2706.8	2570.2	2551.0	2703.3	2647.7
50°	3137.2	3111.1	3238.0	3224.0	3285.0	3190.2	3306.8	3027.6	2997.1	3082.4	2985.0
52.5°	2619.7	2619.7	2816.4	2945.1	3281.5	3458.8	3830.2	3515.3	3465.8	3450.2	3241.5
55°	2087.8	2101.6	2285.8	2472.0	2995.4	3531.1	4267.5	3963.2	3919.8	3712.8	3434.5
57.5°	1510.3	1526.0	1789.5	1945.1	2456.3	3284.2	4434.5	4252.8	4235.4	3923.2	3612.8
60°	885.2	922.5	1201.7	1463.3	1773.8	2644.2	4368.4	4451.8	4507.4	4092.8	3743.1
62.5°	521.6	537.4	634.7	992.1	1225.9	1798.9	4006.7	4551.0	4712.7	4236.1	3844.9
64°	380.8	388.6	458.2	718.3	959.8	1306.9	3551.9	4551.0	4744.8	4313.7	3872.8
65°	311.4	314.8	363.5	574.7	812.1	1000.0	3124.9	4512.7	4702.3	4351.8	3866.7
67.5°	253.1	255.7	267.9	328.7	559.0	549.6	1847.8	4174.5	4324.0	4393.6	3772.7
70°	227.8	230.4	251.3	256.5	413.0	366.1	595.5	3431.0	3532.0	4177.9	3572.7
72.5°	173.1	180.0	217.4	249.5	286.1	274.0	285.2	2115.5	2232.8	3181.4	3048.5
75°	118.2	125.3	161.8	212.2	220.9	206.2	214.8	812.1	909.5	1652.9	1839.0
77.5°	75.6	76.5	100.9	153.9	197.4	140.9	162.7	228.7	266.1	560.0	572.9
80°	49.5	51.4	60.8	98.3	134.7	117.4	100.0	123.4	125.3	165.2	87.9
82.5°	30.5	29.6	40.1	60.8	82.6	99.2	61.8	79.9	83.5	97.3	37.4
85°	13.0	14.0	25.2	39.2	51.4	47.8	38.3	48.7	50.5	64.4	21.6
87.5°	5.2	5.2	14.8	21.6	22.5	22.5	23.4	26.1	26.1	40.1	14.0
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	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.9	0.9	0.0	0.0	3.5	79.9	114.8	114.8
10°	6.1	5.2	0.0	0.9	0.9	40.1	127.7	127.7	125.3	123.4	122.6
12.5°	195.7	225.1	215.7	93.1	72.1	113.9	120.8	107.0	95.6	90.4	88.8
15°	233.9	233.0	226.9	184.3	258.3	115.6	92.2	111.3	95.6	82.6	82.6
17.5°	389.5	369.6	308.7	250.4	233.9	156.6	93.1	63.5	52.2	48.7	48.7
20°	463.4	454.7	397.4	386.0	213.8	128.6	65.1	43.5	49.5	55.7	55.7
22.5°	569.5	565.2	417.4	367.8	213.0	78.2	52.2	52.2	51.4	48.7	48.7
25°	684.2	688.6	588.7	389.5	145.2	65.1	53.9	45.3	40.1	43.5	44.3
27.5°	834.7	725.1	593.1	359.1	99.2	60.8	46.2	43.5	42.6	40.9	40.9
30°	1005.2	981.7	759.1	299.1	75.6	54.7	43.5	38.3	34.0	35.7	35.7
32.5°	1122.5	1050.4	745.1	226.1	65.1	47.8	37.4	32.2	33.1	34.0	33.1
35°	1240.7	1159.1	751.3	145.2	58.3	39.2	30.5	28.7	27.8	31.4	31.4
37.5°	1408.6	1305.1	739.9	91.3	48.7	32.2	26.1	25.2	26.1	26.9	26.9
40°	1614.7	1496.3	713.0	68.7	40.1	26.1	21.6	20.9	22.5	22.5	22.5
42.5°	1861.6	1705.2	642.6	59.9	34.0	20.9	17.3	17.3	19.1	19.1	19.1
45°	2156.3	1959.8	552.9	53.0	28.7	17.3	14.0	14.8	15.6	15.6	15.6
47.5°	2480.7	2239.8	439.1	46.2	24.3	14.0	11.3	11.3	12.1	12.1	12.1
50°	2780.7	2471.1	346.0	40.9	20.0	11.3	8.8	8.8	8.8	8.8	8.8
52.5°	3001.4	2623.3	252.2	35.7	17.3	8.8	6.1	6.1	6.1	6.1	6.1
55°	3181.4	2724.1	182.5	30.5	14.0	6.9	4.3	3.5	4.3	3.5	3.5
57.5°	3339.8	2787.6	131.3	25.2	11.3	4.3	1.7	1.7	1.7	1.7	1.7
60°	3483.2	2821.5	97.3	20.9	9.5	2.6	1.7	0.9	0.9	0.0	0.0
62.5°	3613.6	2833.8	73.9	16.4	7.8	1.7	0.9	0.0	0.0	0.0	0.0
64°	3661.5	2822.5	63.5	14.8	6.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	3676.3	2795.4	57.4	13.0	6.1	0.9	0.9	0.0	0.0	0.0	0.0
67.5°	3630.9	2672.8	42.6	10.4	5.2	0.9	0.9	0.0	0.0	0.0	0.0
70°	3454.5	2441.6	31.4	8.8	3.5	0.0	0.9	0.0	0.0	0.0	0.0
72.5°	2825.0	1843.3	22.5	6.9	3.5	0.0	0.9	0.0	0.0	0.0	0.0
75°	1696.4	777.4	16.4	5.2	3.5	0.0	1.7	0.0	0.0	0.0	0.0
77.5°	512.2	250.4	12.1	4.3	4.3	0.0	2.6	0.9	0.0	0.0	0.0
80°	68.7	37.4	6.9	3.5	4.3	0.0	3.5	0.9	0.0	0.0	0.0
82.5°	25.2	12.1	4.3	3.5	4.3	0.0	3.5	2.6	0.9	0.9	0.0
85°	9.5	6.9	3.5	2.6	5.2	0.0	4.3	2.6	0.9	0.9	0.0
87.5°	4.3	3.5	2.6	2.6	5.2	0.0	4.3	3.5	0.9	0.9	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)