

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: P239343

Luminaire Tested: **UTLD-AF24-100-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239343  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-42-U0)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-100-D-U-T2U-7030-HSS  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 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: 5246 lumens  
Efficiency: N/A  
Efficacy: 54.6 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

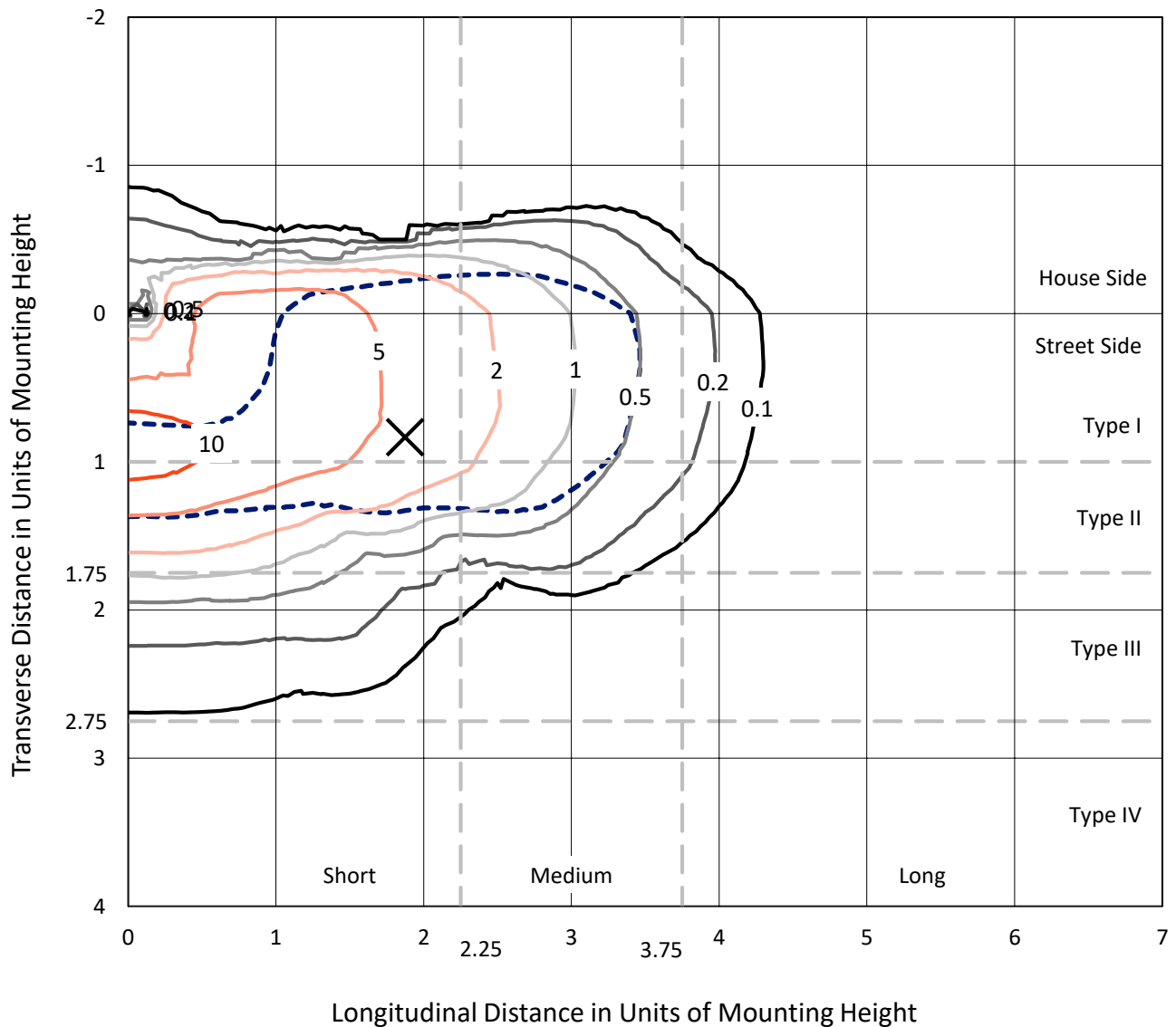


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

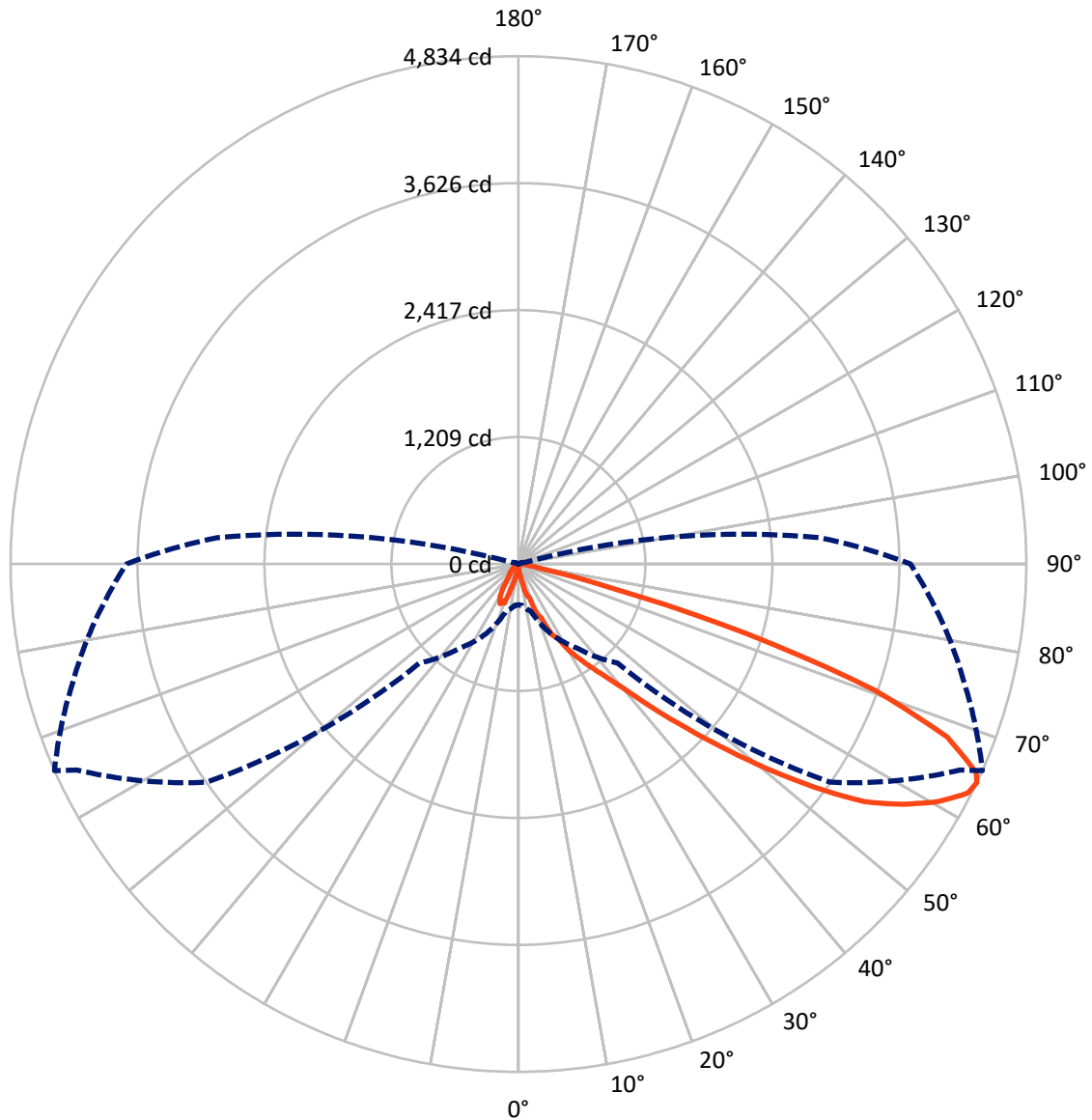


Based on 10 foot mounting height. Maximum calculated value = 13.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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



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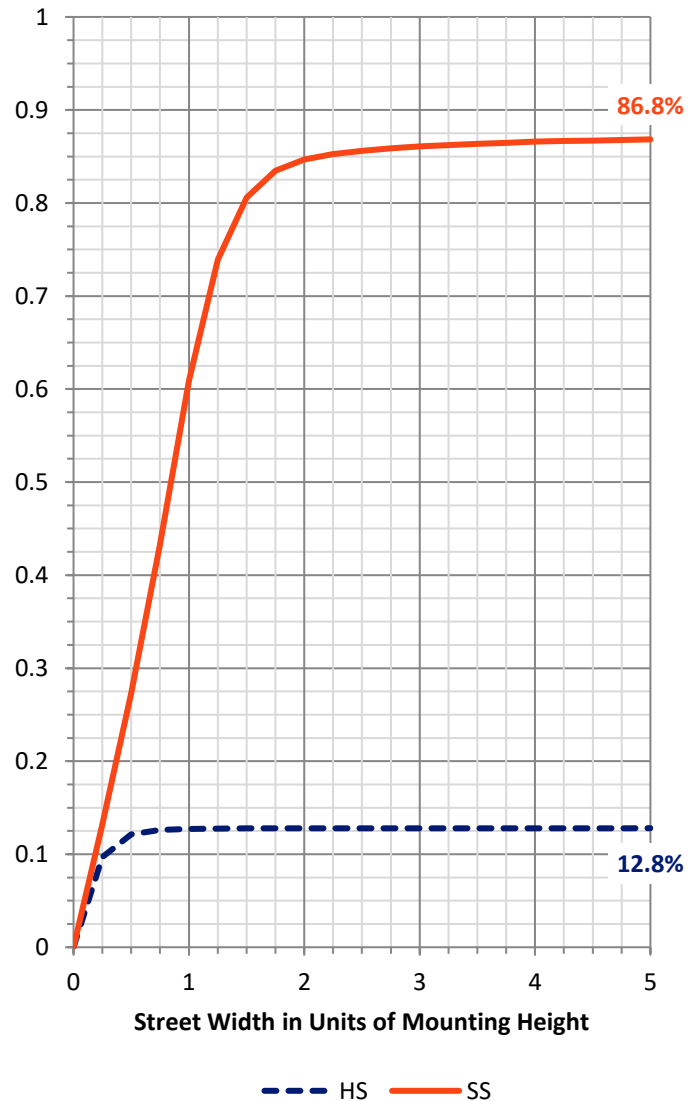
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	679.8	0.0	679.8
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	4566.2	0.0	4566.2
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	5246.0	0.0	5246.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.0	0.1
10°-20°	68.5	1.3
20°-30°	212.8	4.1
30°-40°	534.3	10.2
40°-50°	1159.0	22.1
50°-60°	1569.3	29.9
60°-70°	1233.6	23.5
70°-80°	436.2	8.3
80°-90°	26.3	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°	5246.0	100.0
0°-180°	5246.0	100.0



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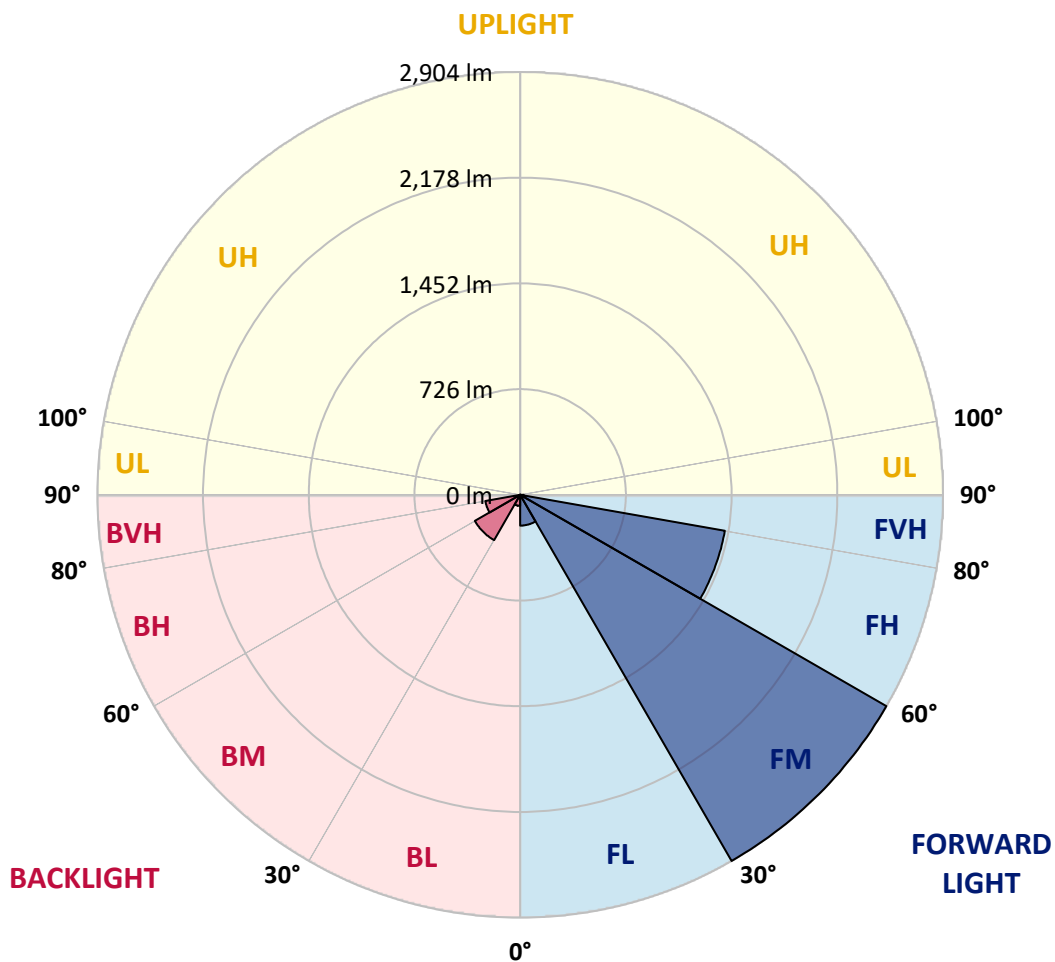
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	211.4	4.0			
FM	(30°-60°)	2903.5	55.3			
FH	(60°-80°)	1426.9	27.2			G1/1800
FVH	(80°-90°)	24.4	0.5			G1/100
BL	(0°-30°)	76.0	1.4	B0/110		
BM	(30°-60°)	359.1	6.8	B1/1000		
BH	(60°-80°)	242.9	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°	19.5	18.6	15.9	12.4	4.4	2.7	0.0	0.0	0.0	0.0	0.0
5°	157.7	158.6	159.5	159.5	159.5	158.6	60.2	4.4	3.5	0.0	0.0
7.5°	153.3	154.1	154.1	154.1	155.0	155.0	155.0	149.7	123.1	2.7	0.0
10°	289.7	290.6	292.3	212.6	158.6	152.4	152.4	124.0	119.6	15.9	6.2
12.5°	285.3	286.1	287.9	288.8	290.6	193.1	161.2	221.5	236.5	307.4	201.1
15°	329.6	344.6	311.0	291.5	291.5	273.7	324.2	313.6	314.5	319.8	206.4
17.5°	431.4	430.6	434.1	437.6	319.8	401.3	420.8	328.7	332.2	373.0	379.2
20°	446.5	448.3	443.8	450.9	528.9	421.7	420.8	501.4	497.9	498.8	449.2
22.5°	607.7	609.5	615.7	511.2	552.8	521.8	549.3	559.9	559.9	524.5	528.9
25°	653.8	650.3	656.5	646.7	651.1	630.8	593.6	714.9	748.6	715.8	712.3
27.5°	908.1	900.1	881.5	721.1	708.7	669.7	782.3	801.7	802.6	796.4	825.7
30°	1075.5	1078.1	1026.8	939.9	788.5	771.6	864.6	936.4	961.2	1042.7	1017.9
32.5°	1604.4	1571.6	1425.4	1116.2	973.6	908.1	962.1	1100.3	1083.5	1137.5	1137.5
35°	2097.8	2040.2	1817.9	1504.3	1139.3	1011.7	1142.8	1185.3	1218.1	1264.2	1280.1
37.5°	2590.4	2567.4	2335.2	1909.1	1467.9	1182.7	1289.9	1371.4	1367.8	1428.1	1459.1
40°	3028.0	2998.8	2845.5	2415.0	1859.5	1441.4	1497.2	1577.8	1571.6	1685.9	1728.4
42.5°	3354.0	3334.6	3234.4	2798.6	2343.2	1880.8	1807.2	1841.8	1863.9	1986.2	2029.6
45°	3532.1	3497.6	3468.3	3103.3	2764.0	2407.9	2217.4	2175.8	2202.4	2322.8	2353.0
47.5°	3494.0	3451.5	3493.1	3284.9	3134.3	2868.6	2757.8	2618.7	2599.2	2754.3	2697.6
50°	3196.4	3169.8	3299.1	3284.9	3347.0	3250.4	3369.1	3084.7	3053.7	3140.5	3041.3
52.5°	2669.2	2669.2	2869.5	3000.6	3343.4	3524.1	3902.4	3581.7	3531.2	3515.3	3302.7
55°	2127.1	2141.2	2329.0	2518.6	3051.9	3597.7	4348.0	4038.0	3993.7	3782.8	3499.3
57.5°	1538.8	1554.8	1823.2	1981.8	2502.7	3346.1	4518.1	4333.0	4315.3	3997.2	3680.9
60°	901.9	939.9	1224.3	1491.0	1807.2	2694.0	4450.8	4535.8	4592.5	4170.0	3813.8
62.5°	531.5	547.5	646.7	1010.8	1249.1	1832.9	4082.3	4636.8	4801.6	4316.1	3917.5
64°	388.0	396.0	466.9	731.8	978.0	1331.5	3618.9	4636.8	4834.4	4395.0	3945.8
65°	317.2	320.7	370.3	585.6	827.4	1018.8	3183.9	4597.9	4791.0	4434.0	3939.6
67.5°	257.8	260.5	272.9	334.9	569.6	559.9	1882.6	4253.2	4405.6	4476.5	3843.9
70°	232.1	234.8	256.0	261.3	420.8	373.0	606.8	3495.8	3598.6	4256.8	3640.2
72.5°	176.3	183.4	221.5	254.3	291.5	279.1	290.6	2155.4	2275.0	3241.5	3106.0
75°	120.5	127.6	164.8	216.2	225.0	210.0	218.8	827.4	926.7	1684.1	1873.7
77.5°	77.1	78.0	102.8	156.8	201.1	143.5	165.7	233.0	271.1	570.5	583.8
80°	50.5	52.3	62.0	100.1	137.3	119.6	101.9	125.8	127.6	168.3	89.5
82.5°	31.0	30.1	40.8	62.0	84.2	101.0	62.9	81.5	85.0	99.2	38.1
85°	13.3	14.2	25.7	39.9	52.3	48.7	39.0	49.6	51.4	65.6	22.1
87.5°	5.3	5.3	15.1	22.1	23.0	23.0	23.9	26.6	26.6	40.8	14.2
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°	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	81.5	116.9	116.9
10°	6.2	5.3	0.0	0.9	0.9	40.8	130.2	130.2	127.6	125.8	124.9
12.5°	199.3	229.4	219.7	94.8	73.5	116.1	123.1	109.0	97.4	92.1	90.4
15°	238.3	237.4	231.2	187.8	263.1	117.8	93.9	113.4	97.4	84.2	84.2
17.5°	396.9	376.5	314.5	255.1	238.3	159.5	94.8	64.7	53.2	49.6	49.6
20°	472.2	463.3	404.9	393.3	217.9	131.1	66.4	44.3	50.5	56.7	56.7
22.5°	580.3	575.8	425.2	374.7	217.0	79.7	53.2	53.2	52.3	49.6	49.6
25°	697.2	701.6	599.8	396.9	147.9	66.4	54.9	46.1	40.8	44.3	45.2
27.5°	850.5	738.8	604.2	365.9	101.0	62.0	47.0	44.3	43.4	41.6	41.6
30°	1024.1	1000.2	773.4	304.8	77.1	55.8	44.3	39.0	34.6	36.3	36.3
32.5°	1143.7	1070.2	759.2	230.3	66.4	48.7	38.1	32.8	33.7	34.6	33.7
35°	1264.2	1180.9	765.4	147.9	59.4	39.9	31.0	29.2	28.3	31.9	31.9
37.5°	1435.2	1329.7	753.9	93.0	49.6	32.8	26.6	25.7	26.6	27.5	27.5
40°	1645.1	1524.6	726.4	70.0	40.8	26.6	22.1	21.3	23.0	23.0	23.0
42.5°	1896.7	1737.3	654.7	61.1	34.6	21.3	17.7	17.7	19.5	19.5	19.5
45°	2197.0	1996.8	563.4	54.0	29.2	17.7	14.2	15.1	15.9	15.9	15.9
47.5°	2527.5	2282.1	447.4	47.0	24.8	14.2	11.5	11.5	12.4	12.4	12.4
50°	2833.1	2517.7	352.6	41.6	20.4	11.5	8.9	8.9	8.9	8.9	8.9
52.5°	3058.1	2672.8	256.9	36.3	17.7	8.9	6.2	6.2	6.2	6.2	6.2
55°	3241.5	2775.5	186.0	31.0	14.2	7.1	4.4	3.5	4.4	3.5	3.5
57.5°	3402.8	2840.2	133.8	25.7	11.5	4.4	1.8	1.8	1.8	1.8	1.8
60°	3548.9	2874.8	99.2	21.3	9.7	2.7	1.8	0.9	0.9	0.0	0.0
62.5°	3681.8	2887.2	75.3	16.8	8.0	1.8	0.9	0.0	0.0	0.0	0.0
64°	3730.6	2875.7	64.7	15.1	7.1	0.9	0.9	0.0	0.0	0.0	0.0
65°	3745.6	2848.2	58.5	13.3	6.2	0.9	0.9	0.0	0.0	0.0	0.0
67.5°	3699.5	2723.3	43.4	10.6	5.3	0.9	0.9	0.0	0.0	0.0	0.0
70°	3519.7	2487.6	31.9	8.9	3.5	0.0	0.9	0.0	0.0	0.0	0.0
72.5°	2878.3	1878.1	23.0	7.1	3.5	0.0	0.9	0.0	0.0	0.0	0.0
75°	1728.4	792.0	16.8	5.3	3.5	0.0	1.8	0.0	0.0	0.0	0.0
77.5°	521.8	255.1	12.4	4.4	4.4	0.0	2.7	0.9	0.0	0.0	0.0
80°	70.0	38.1	7.1	3.5	4.4	0.0	3.5	0.9	0.0	0.0	0.0
82.5°	25.7	12.4	4.4	3.5	4.4	0.0	3.5	2.7	0.9	0.9	0.0
85°	9.7	7.1	3.5	2.7	5.3	0.0	4.4	2.7	0.9	0.9	0.0
87.5°	4.4	3.5	2.7	2.7	5.3	0.0	4.4	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)