

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: P239337

Luminaire Tested: **UTLD-AF24-40-D-U-T2U-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239337  
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-AF24-40-D-U-T2U-7030-HSS  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 500mA 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: 2653 lumens  
Efficiency: N/A  
Efficacy: 66.3 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): 40  
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

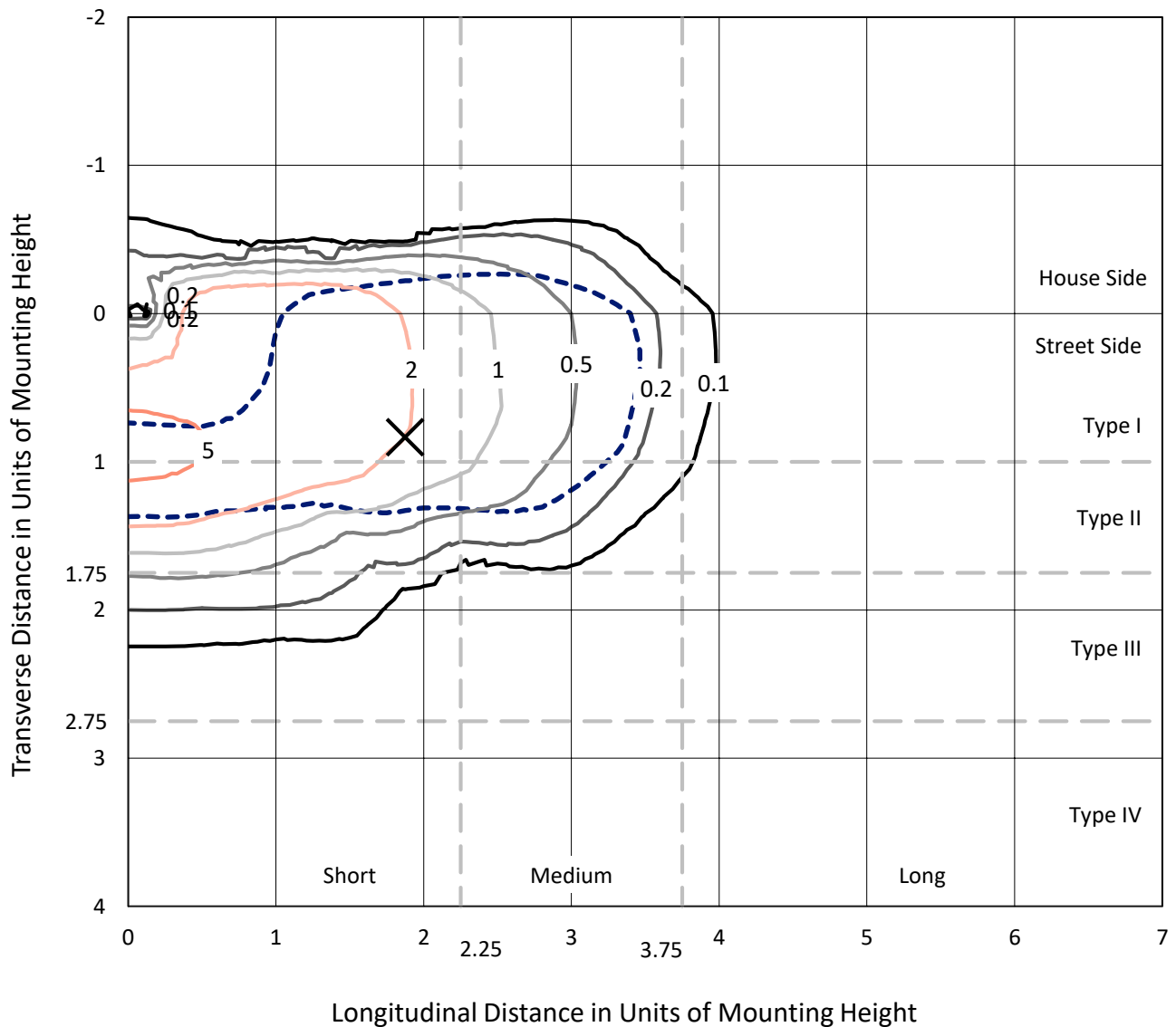


REPORT NUMBER: P239337

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-7030-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

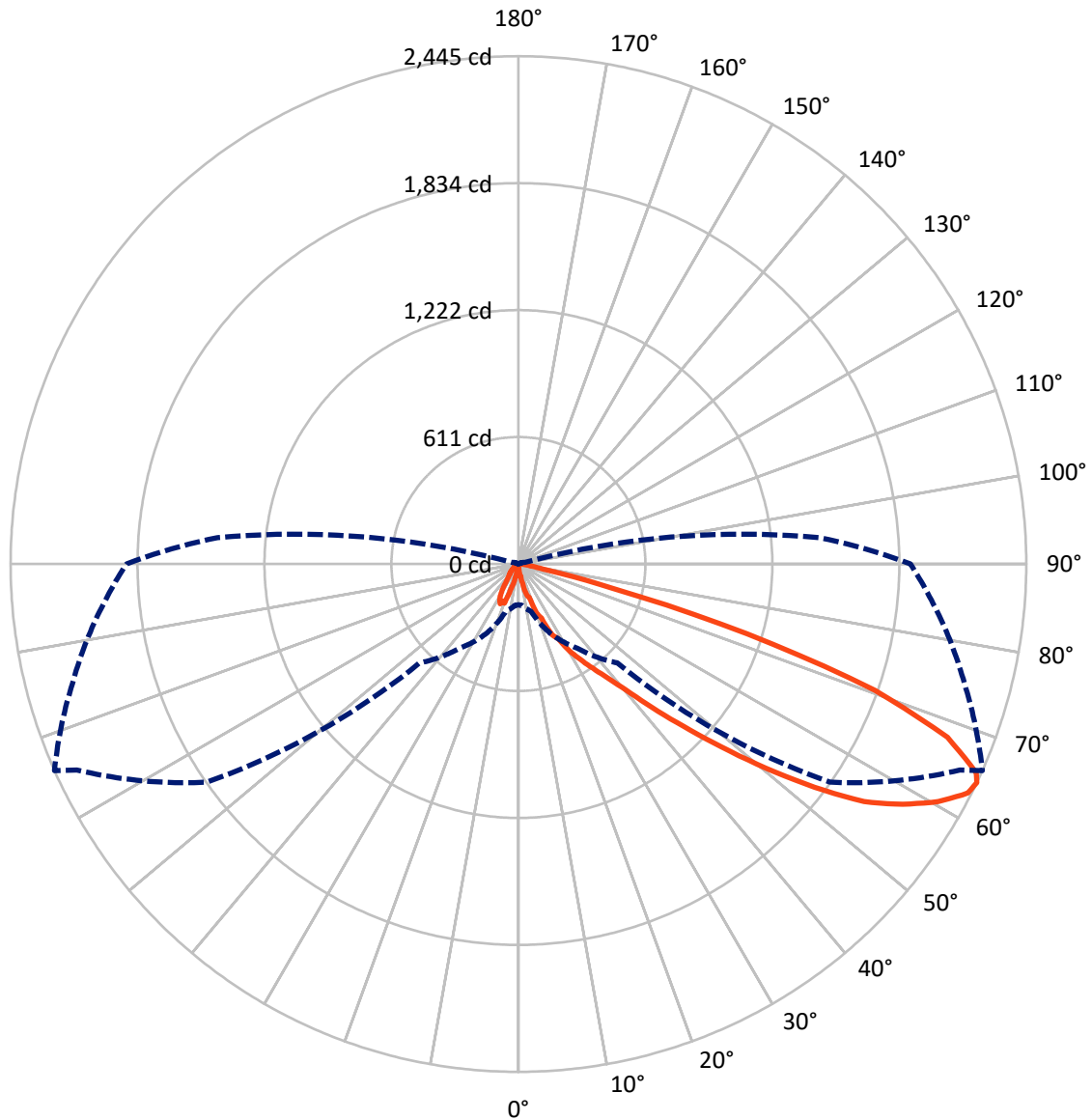


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P239337

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-7030-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P239337

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-7030-HSS

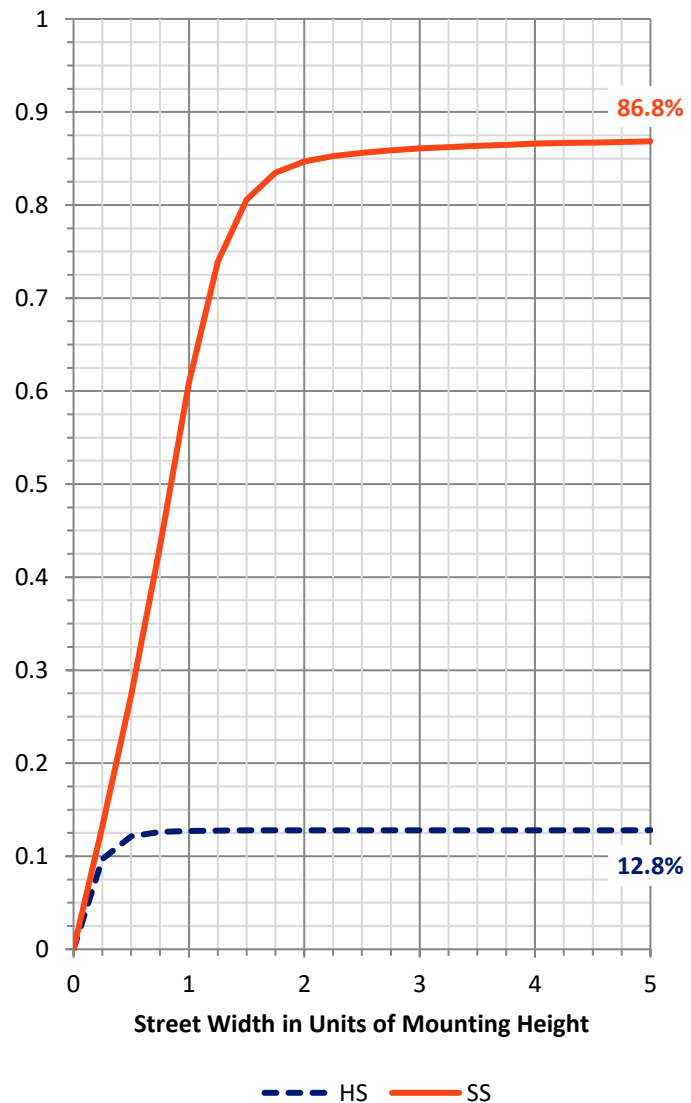
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	343.8	0.0	343.8
	% Fixture	13.0	0.0	13.0
<b>Street Side</b>	Lumens	2309.2	0.0	2309.2
	% Fixture	87.0	0.0	87.0
<b>Total</b>	Lumens	2653.0	0.0	2653.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.0	0.1
10°-20°	34.6	1.3
20°-30°	107.6	4.1
30°-40°	270.2	10.2
40°-50°	586.1	22.1
50°-60°	793.6	29.9
60°-70°	623.8	23.5
70°-80°	220.6	8.3
80°-90°	13.3	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°	2653.0	100.0
0°-180°	2653.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P239337

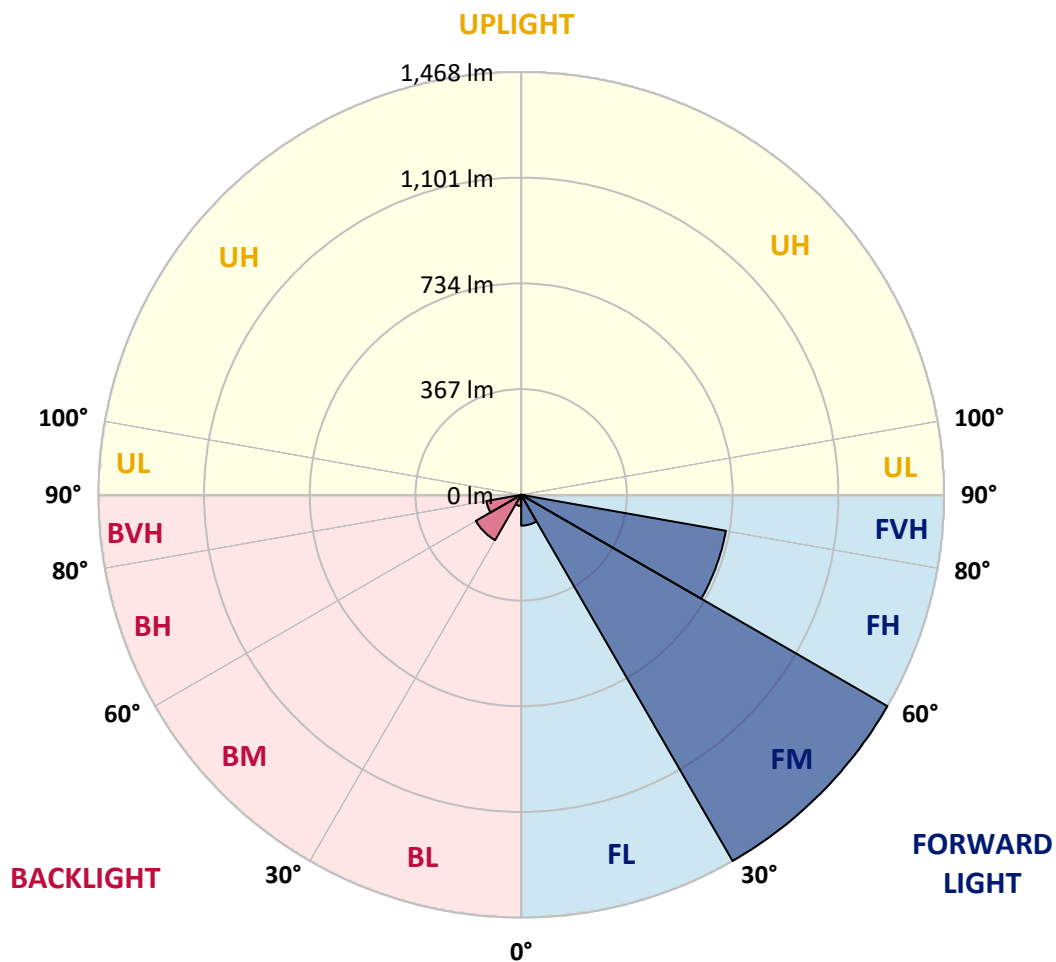
CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-7030-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	106.9	4.0			
FM (30°-60°)	1468.4	55.3			
FH (60°-80°)	721.6	27.2			G1/1800
FVH (80°-90°)	12.4	0.5			G1/100
BL (0°-30°)	38.4	1.4	B0/110		
BM (30°-60°)	181.6	6.8	B0/220		
BH (60°-80°)	122.9	4.6	B1/500		G1/500
BVH (80°-90°)	0.9	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





REPORT NUMBER: P239337

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-7030-HSS

**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°	9.9	9.4	8.1	6.3	2.2	1.3	0.0	0.0	0.0	0.0	0.0
5°	79.7	80.2	80.6	80.6	80.6	80.2	30.5	2.2	1.8	0.0	0.0
7.5°	77.5	78.0	78.0	78.0	78.4	78.4	78.4	75.7	62.3	1.3	0.0
10°	146.5	147.0	147.8	107.5	80.2	77.1	77.1	62.7	60.5	8.1	3.1
12.5°	144.3	144.7	145.6	146.1	147.0	97.7	81.5	112.0	119.6	155.5	101.7
15°	166.7	174.3	157.3	147.4	147.4	138.4	164.0	158.6	159.0	161.7	104.4
17.5°	218.2	217.7	219.5	221.3	161.7	203.0	212.8	166.2	168.0	188.6	191.8
20°	225.8	226.7	224.5	228.0	267.5	213.3	212.8	253.6	251.8	252.2	227.1
22.5°	307.3	308.2	311.4	258.5	279.6	263.9	277.8	283.1	283.1	265.2	267.5
25°	330.6	328.8	332.0	327.1	329.3	319.0	300.2	361.6	378.6	362.0	360.2
27.5°	459.2	455.2	445.8	364.7	358.4	338.7	395.6	405.5	405.9	402.8	417.6
30°	543.9	545.2	519.3	475.3	398.7	390.2	437.3	473.6	486.1	527.3	514.8
32.5°	811.4	794.8	720.9	564.5	492.4	459.2	486.5	556.4	547.9	575.3	575.3
35°	1060.9	1031.8	919.3	760.7	576.2	511.6	577.9	599.5	616.0	639.3	647.4
37.5°	1310.0	1298.4	1181.0	965.5	742.4	598.1	652.3	693.5	691.7	722.2	737.9
40°	1531.3	1516.5	1439.0	1221.3	940.4	728.9	757.2	797.9	794.8	852.6	874.1
42.5°	1696.2	1686.3	1635.7	1415.3	1185.0	951.1	914.0	931.4	942.6	1004.5	1026.4
45°	1786.3	1768.8	1754.0	1569.4	1397.8	1217.7	1121.4	1100.3	1113.8	1174.7	1189.9
47.5°	1767.0	1745.5	1766.5	1661.3	1585.1	1450.7	1394.7	1324.3	1314.5	1392.9	1364.2
50°	1616.5	1603.0	1668.4	1661.3	1692.6	1643.8	1703.8	1560.0	1544.3	1588.2	1538.1
52.5°	1349.9	1349.9	1451.1	1517.4	1690.8	1782.2	1973.5	1811.3	1785.8	1777.7	1670.2
55°	1075.7	1082.9	1177.8	1273.7	1543.4	1819.4	2198.9	2042.1	2019.7	1913.0	1769.7
57.5°	778.2	786.3	922.0	1002.2	1265.7	1692.2	2284.9	2191.3	2182.3	2021.5	1861.5
60°	456.1	475.3	619.2	754.0	914.0	1362.4	2250.8	2293.9	2322.5	2108.8	1928.7
62.5°	268.8	276.9	327.1	511.2	631.7	927.0	2064.5	2344.9	2428.3	2182.8	1981.1
64°	196.2	200.3	236.1	370.1	494.6	673.4	1830.2	2344.9	2444.8	2222.6	1995.5
65°	160.4	162.2	187.3	296.1	418.5	515.2	1610.2	2325.2	2422.9	2242.3	1992.3
67.5°	130.4	131.7	138.0	169.4	288.1	283.1	952.0	2150.9	2228.0	2263.8	1944.0
70°	117.4	118.7	129.5	132.2	212.8	188.6	306.9	1767.9	1819.9	2152.7	1840.9
72.5°	89.2	92.7	112.0	128.6	147.4	141.1	147.0	1090.0	1150.5	1639.3	1570.8
75°	60.9	64.5	83.3	109.3	113.8	106.2	110.7	418.5	468.6	851.7	947.6
77.5°	39.0	39.4	52.0	79.3	101.7	72.6	83.8	117.8	137.1	288.5	295.2
80°	25.5	26.4	31.4	50.6	69.4	60.5	51.5	63.6	64.5	85.1	45.2
82.5°	15.7	15.2	20.6	31.4	42.6	51.1	31.8	41.2	43.0	50.2	19.3
85°	6.7	7.2	13.0	20.2	26.4	24.6	19.7	25.1	26.0	33.2	11.2
87.5°	2.7	2.7	7.6	11.2	11.6	11.6	12.1	13.4	13.4	20.6	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P239337

CATALOG NUMBER: UTLD-AF24-40-D-U-T2U-7030-HSS

**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	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.4	0.4	0.0	0.0	1.8	41.2	59.1	59.1
10°	3.1	2.7	0.0	0.4	0.4	20.6	65.9	65.9	64.5	63.6	63.2
12.5°	100.8	116.0	111.1	47.9	37.2	58.7	62.3	55.1	49.3	46.6	45.7
15°	120.5	120.1	116.9	95.0	133.1	59.6	47.5	57.3	49.3	42.6	42.6
17.5°	200.7	190.4	159.0	129.0	120.5	80.6	47.9	32.7	26.9	25.1	25.1
20°	238.8	234.3	204.7	198.9	110.2	66.3	33.6	22.4	25.5	28.7	28.7
22.5°	293.5	291.2	215.0	189.5	109.8	40.3	26.9	26.9	26.4	25.1	25.1
25°	352.6	354.8	303.3	200.7	74.8	33.6	27.8	23.3	20.6	22.4	22.8
27.5°	430.1	373.6	305.5	185.0	51.1	31.4	23.7	22.4	22.0	21.1	21.1
30°	517.9	505.8	391.1	154.1	39.0	28.2	22.4	19.7	17.5	18.4	18.4
32.5°	578.4	541.2	384.0	116.5	33.6	24.6	19.3	16.6	17.0	17.5	17.0
35°	639.3	597.2	387.1	74.8	30.0	20.2	15.7	14.8	14.3	16.1	16.1
37.5°	725.8	672.5	381.3	47.0	25.1	16.6	13.4	13.0	13.4	13.9	13.9
40°	832.0	771.0	367.4	35.4	20.6	13.4	11.2	10.8	11.6	11.6	11.6
42.5°	959.2	878.6	331.1	30.9	17.5	10.8	9.0	9.0	9.9	9.9	9.9
45°	1111.1	1009.8	284.9	27.3	14.8	9.0	7.2	7.6	8.1	8.1	8.1
47.5°	1278.2	1154.1	226.2	23.7	12.5	7.2	5.8	5.8	6.3	6.3	6.3
50°	1432.8	1273.3	178.3	21.1	10.3	5.8	4.5	4.5	4.5	4.5	4.5
52.5°	1546.6	1351.7	129.9	18.4	9.0	4.5	3.1	3.1	3.1	3.1	3.1
55°	1639.3	1403.6	94.1	15.7	7.2	3.6	2.2	1.8	2.2	1.8	1.8
57.5°	1720.8	1436.4	67.7	13.0	5.8	2.2	0.9	0.9	0.9	0.9	0.9
60°	1794.8	1453.8	50.2	10.8	4.9	1.3	0.9	0.4	0.4	0.0	0.0
62.5°	1862.0	1460.1	38.1	8.5	4.0	0.9	0.4	0.0	0.0	0.0	0.0
64°	1886.6	1454.3	32.7	7.6	3.6	0.4	0.4	0.0	0.0	0.0	0.0
65°	1894.2	1440.4	29.6	6.7	3.1	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	1870.9	1377.2	22.0	5.4	2.7	0.4	0.4	0.0	0.0	0.0	0.0
70°	1780.0	1258.0	16.1	4.5	1.8	0.0	0.4	0.0	0.0	0.0	0.0
72.5°	1455.6	949.8	11.6	3.6	1.8	0.0	0.4	0.0	0.0	0.0	0.0
75°	874.1	400.5	8.5	2.7	1.8	0.0	0.9	0.0	0.0	0.0	0.0
77.5°	263.9	129.0	6.3	2.2	2.2	0.0	1.3	0.4	0.0	0.0	0.0
80°	35.4	19.3	3.6	1.8	2.2	0.0	1.8	0.4	0.0	0.0	0.0
82.5°	13.0	6.3	2.2	1.8	2.2	0.0	1.8	1.3	0.4	0.4	0.0
85°	4.9	3.6	1.8	1.3	2.7	0.0	2.2	1.3	0.4	0.4	0.0
87.5°	2.2	1.8	1.3	1.3	2.7	0.0	2.2	1.8	0.4	0.4	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)