

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: P239669

Luminaire Tested: **UTLD-AF24-30-D-U-T3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239669  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-39-U0)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-30-D-U-T3-HSS  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE III 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: 2514 lumens  
Efficiency: N/A  
Efficacy: 81.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium - Semi-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 31  
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

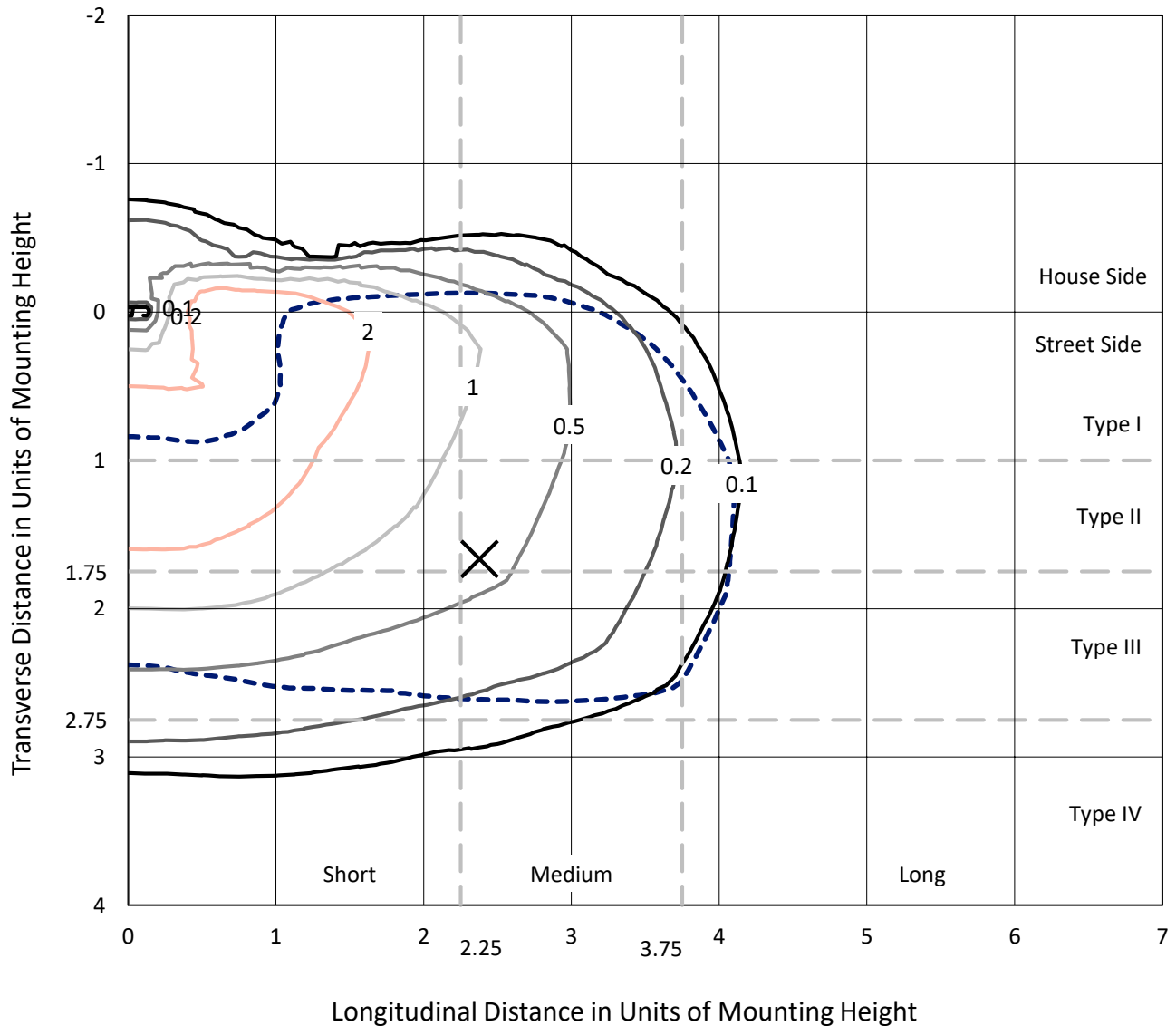


REPORT NUMBER: P239669

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

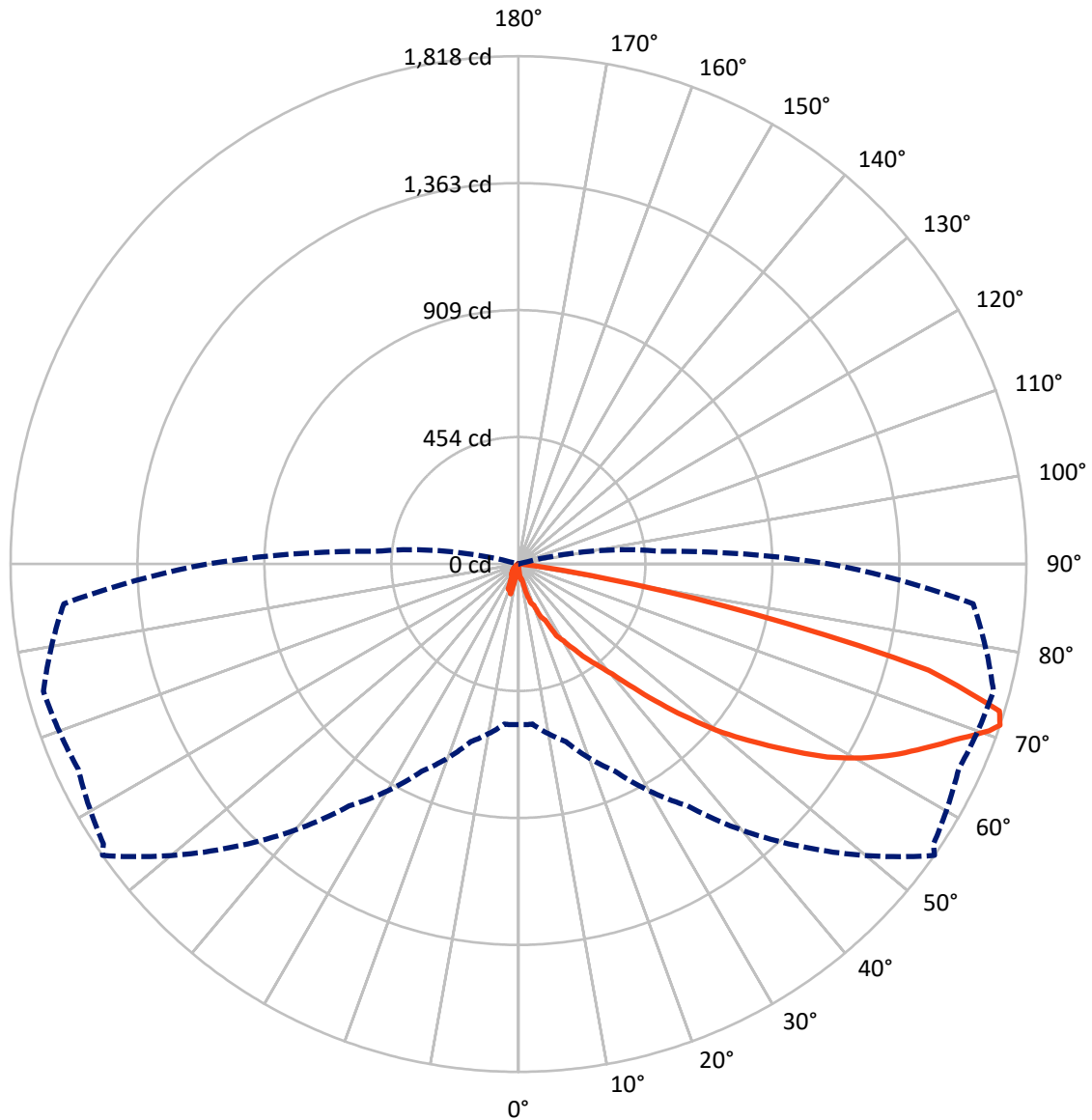


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Medium - Semi-Cutoff

REPORT NUMBER: P239669

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P239669

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-HSS

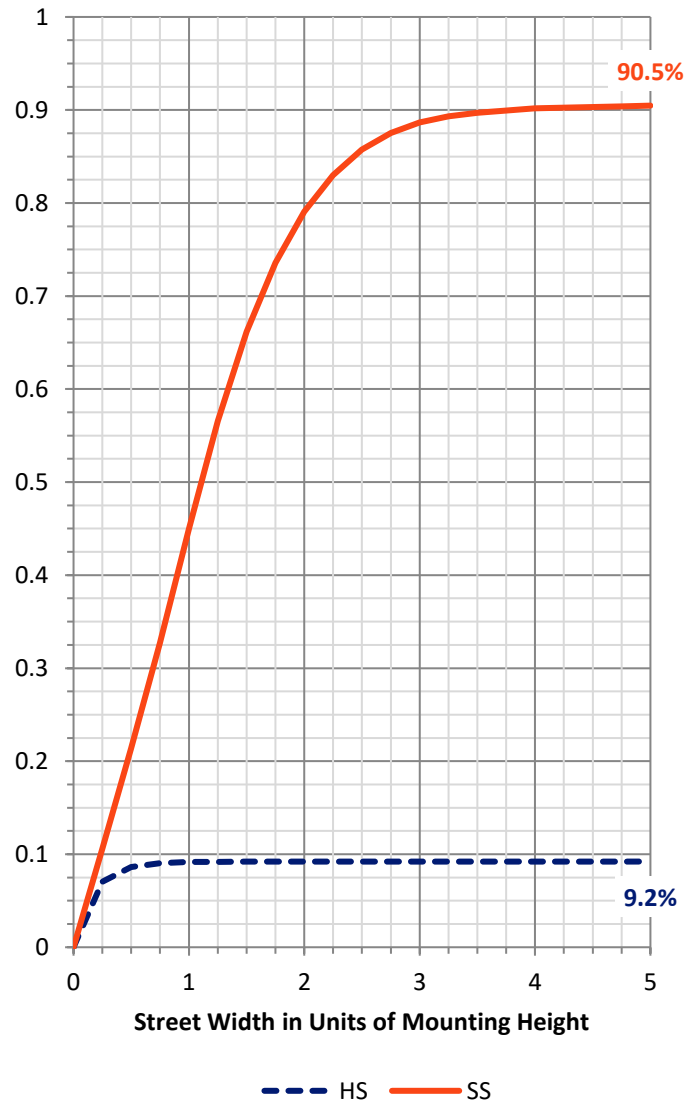
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	233.9	0.0	233.9
	% Fixture	9.3	0.0	9.3
<b>Street Side</b>	Lumens	2280.1	0.0	2280.1
	% Fixture	90.7	0.0	90.7
<b>Total</b>	Lumens	2514.0	0.0	2514.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.2	0.1
10°-20°	26.4	1.0
20°-30°	86.9	3.5
30°-40°	200.8	8.0
40°-50°	390.0	15.5
50°-60°	631.7	25.1
60°-70°	748.6	29.8
70°-80°	409.3	16.3
80°-90°	18.2	0.7
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°	2514.0	100.0
0°-180°	2514.0	100.0



REPORT NUMBER: P239669

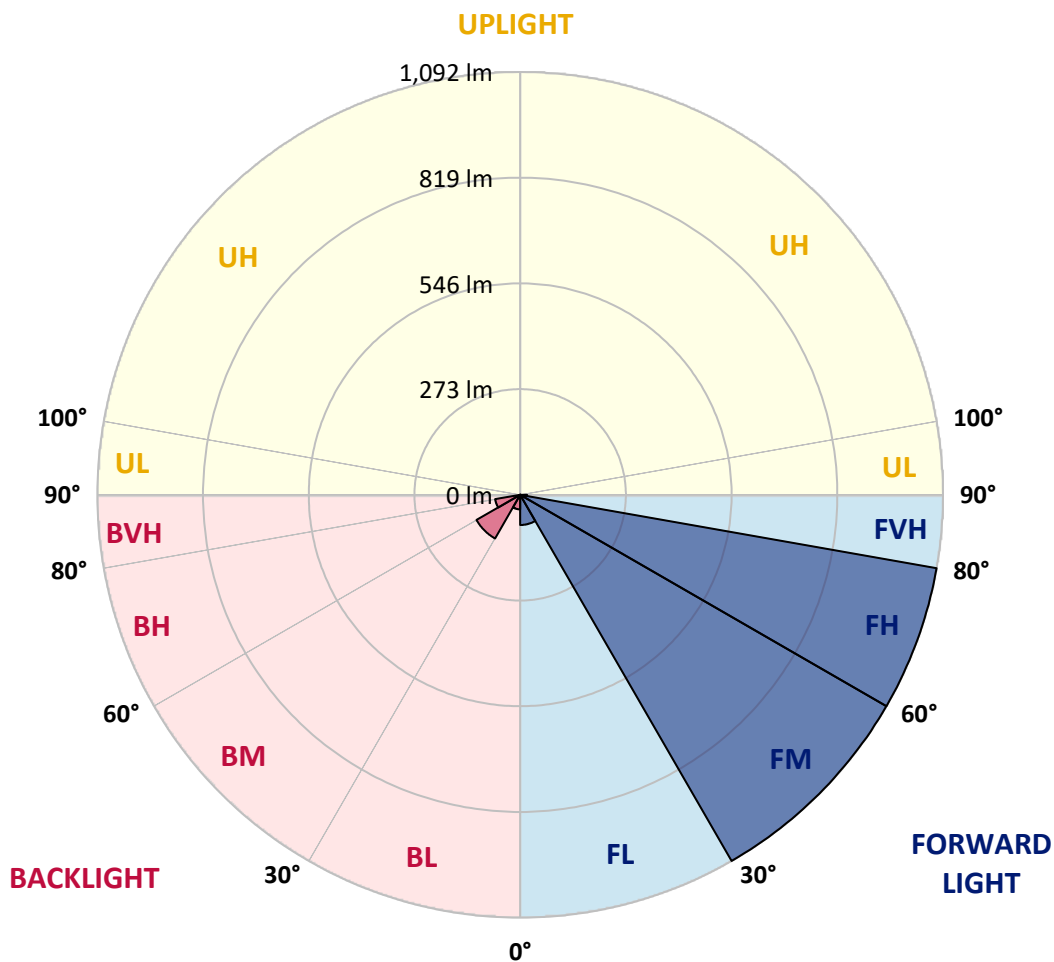
CATALOG NUMBER: UTLD-AF24-30-D-U-T3-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	78.0	3.1			
FM	(30°-60°)	1092.2	43.4			
FH	(60°-80°)	1092.3	43.4			G1/1800
FVH	(80°-90°)	17.6	0.7			G1/100
BL	(0°-30°)	37.5	1.5	B0/110		
BM	(30°-60°)	130.2	5.2	B0/220		
BH	(60°-80°)	65.6	2.6	B0/110		G0/110
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Medium





REPORT NUMBER: P239669

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	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°	12.5	12.5	8.6	7.0	2.3	0.4	0.0	0.0	0.0	0.0	0.0
5°	55.3	55.3	55.3	55.3	55.3	53.7	14.0	12.9	1.6	0.4	0.4
7.5°	52.2	52.2	52.2	53.0	53.7	54.1	54.5	54.1	13.2	0.8	0.4
10°	98.9	99.3	98.2	67.8	53.7	52.6	53.7	54.1	44.0	7.8	3.1
12.5°	98.2	98.5	99.3	100.5	100.9	62.3	58.4	59.6	78.7	80.6	71.3
15°	116.1	115.3	105.6	100.1	101.3	101.7	113.3	111.0	115.3	113.7	85.3
17.5°	148.0	147.6	147.6	143.3	111.4	142.6	147.6	141.8	125.0	152.7	161.6
20°	153.5	152.3	149.2	150.3	176.8	151.1	156.6	171.0	193.2	202.9	190.5
22.5°	206.4	206.4	204.9	166.3	187.0	190.5	205.3	206.8	223.2	219.7	251.2
25°	220.4	220.1	217.3	215.0	201.0	231.4	222.4	222.4	281.2	310.8	323.3
27.5°	313.1	311.2	283.2	233.3	236.0	246.2	290.2	302.6	325.2	338.5	374.7
30°	390.3	383.3	358.7	317.4	263.7	277.3	319.8	329.5	374.7	447.1	471.7
32.5°	581.1	572.2	495.4	384.4	326.4	320.9	361.4	374.3	435.8	482.2	514.1
35°	692.1	689.0	625.9	513.0	389.1	357.5	411.7	426.1	478.7	525.8	556.6
37.5°	773.5	782.1	738.9	601.8	491.1	430.0	458.4	467.8	531.3	588.9	621.2
40°	890.4	879.1	834.3	700.3	569.0	514.5	517.6	528.1	585.8	664.9	702.6
42.5°	1042.3	1038.0	971.0	819.1	673.4	623.6	606.4	600.6	649.3	750.9	782.5
45°	1192.2	1186.8	1131.8	960.5	802.0	738.9	713.5	702.6	744.3	855.7	873.2
47.5°	1294.3	1285.7	1263.9	1103.4	979.6	875.2	828.0	809.7	847.5	957.7	970.2
50°	1403.3	1382.7	1361.6	1228.8	1123.7	1027.5	948.4	922.7	955.0	1063.7	1077.7
52.5°	1471.5	1432.9	1433.3	1334.0	1245.2	1183.3	1058.2	1046.6	1071.9	1181.7	1171.6
55°	1429.4	1423.2	1464.5	1400.2	1337.1	1276.0	1176.2	1170.4	1198.5	1281.4	1265.8
57.5°	1350.3	1365.5	1445.0	1436.0	1422.0	1373.3	1303.2	1309.5	1329.7	1374.1	1378.8
60°	1275.2	1296.6	1401.8	1434.5	1475.0	1455.9	1409.6	1435.3	1438.0	1489.8	1487.8
62.5°	1163.8	1179.8	1301.3	1406.8	1450.4	1510.8	1505.4	1528.3	1531.9	1572.7	1614.8
65°	1031.7	1044.2	1165.7	1307.1	1406.0	1523.7	1591.8	1605.5	1607.0	1652.2	1714.1
67.5°	887.3	893.9	993.2	1151.7	1311.4	1514.7	1680.6	1679.5	1675.2	1723.5	1762.4
70°	682.4	692.9	782.5	942.9	1145.1	1469.1	1787.4	1770.6	1730.1	1762.0	1711.4
71°	575.3	575.3	658.2	818.7	1056.7	1429.0	1817.7	1792.0	1738.3	1760.1	1633.5
72.5°	280.0	305.7	432.3	595.9	866.6	1318.8	1799.8	1765.2	1719.6	1707.9	1419.7
75°	78.3	83.0	113.7	234.9	448.7	881.0	1517.1	1502.6	1466.4	1385.4	840.5
77.5°	32.7	33.5	43.2	85.7	150.3	313.1	861.5	895.4	877.1	703.4	278.9
80°	23.0	23.8	26.9	45.2	82.2	83.4	309.6	311.6	304.2	172.9	44.8
82.5°	13.2	13.6	20.3	28.0	54.5	38.9	64.7	68.5	75.6	41.3	16.7
85°	7.0	7.4	12.1	19.5	25.7	17.9	21.4	22.2	30.0	27.3	9.7
87.5°	7.4	7.4	10.9	13.6	13.6	8.6	8.6	9.3	12.1	17.5	5.8
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: P239669

CATALOG NUMBER: UTLD-AF24-30-D-U-T3-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	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	37.8	41.3	43.6	46.7
10°	3.1	3.1	1.6	0.4	0.4	40.1	53.7	54.1	53.7	53.4	53.7
12.5°	79.5	85.3	77.9	36.6	38.2	53.7	52.6	47.1	43.6	41.3	41.3
15°	93.5	94.3	93.1	75.9	110.2	65.0	42.1	55.7	49.9	46.3	46.0
17.5°	148.8	162.8	135.9	111.4	102.8	67.8	47.1	36.6	31.5	30.4	30.4
20°	205.6	206.4	183.8	176.0	89.6	60.8	37.0	28.4	37.4	40.9	40.9
22.5°	264.5	268.7	195.5	165.1	97.8	43.2	35.8	38.6	39.7	38.9	38.9
25°	339.2	337.7	299.1	176.8	69.3	42.1	41.7	38.6	37.8	46.7	46.3
27.5°	403.1	369.6	298.7	157.7	54.9	44.4	40.9	46.0	44.4	42.5	42.1
30°	495.0	490.0	372.7	126.6	47.5	42.8	44.8	42.1	37.4	40.5	40.1
32.5°	527.8	513.3	349.8	90.8	43.6	40.5	39.3	37.4	33.5	31.2	30.0
35°	566.7	547.2	315.5	61.9	42.5	35.1	33.5	28.8	25.3	25.7	25.3
37.5°	615.0	590.9	274.2	48.3	37.4	30.8	26.1	22.6	20.3	18.7	18.7
40°	675.0	640.7	236.8	42.5	33.1	25.3	19.1	15.6	14.4	13.6	13.6
42.5°	745.1	691.3	179.9	38.6	28.8	19.9	13.6	10.9	10.1	10.1	10.1
45°	827.3	736.1	126.2	35.1	24.9	14.8	9.0	7.0	7.0	7.4	7.4
47.5°	916.5	775.9	81.8	32.3	21.0	9.7	5.8	4.7	5.1	5.1	5.1
50°	1003.3	805.5	54.9	29.2	16.7	6.2	3.9	3.5	3.5	3.5	3.5
52.5°	1074.2	809.4	44.8	25.7	12.5	3.9	2.3	2.3	2.7	2.3	2.7
55°	1136.9	803.1	39.3	21.8	9.0	2.3	1.6	1.6	1.6	1.6	1.6
57.5°	1191.8	789.9	35.1	17.9	6.2	1.6	0.8	0.8	0.8	0.8	0.8
60°	1235.5	766.1	30.4	14.0	3.9	0.8	0.4	0.4	0.4	0.0	0.0
62.5°	1282.6	742.0	24.9	10.5	2.7	0.4	0.4	0.0	0.0	0.0	0.0
65°	1305.2	708.5	19.5	7.0	1.6	0.4	0.0	0.0	0.0	0.0	0.0
67.5°	1286.1	655.9	13.6	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1194.6	572.9	9.0	3.1	1.2	0.0	0.0	0.0	0.0	0.0	0.0
71°	1112.0	517.2	7.8	2.7	0.8	0.0	0.4	0.0	0.0	0.0	0.0
72.5°	918.4	382.1	6.6	2.3	0.8	0.0	0.4	0.0	0.0	0.0	0.0
75°	506.3	128.9	4.7	1.9	1.2	0.0	0.4	0.0	0.0	0.0	0.0
77.5°	148.8	37.4	3.5	1.6	1.2	0.0	0.8	0.0	0.0	0.0	0.0
80°	25.7	7.8	2.3	1.2	1.2	0.0	0.8	0.4	0.0	0.0	0.0
82.5°	10.1	3.9	1.6	1.2	1.6	0.0	1.2	0.8	0.0	0.0	0.0
85°	3.9	2.3	1.2	1.2	1.9	0.0	1.2	0.4	0.0	0.0	0.0
87.5°	2.3	1.9	1.2	1.2	1.9	0.0	1.6	0.8	0.0	0.0	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)