

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: P239724

Luminaire Tested: **UTLD-AF24-40-D-U-T4W-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-40-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-T4W-HSS  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE 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**

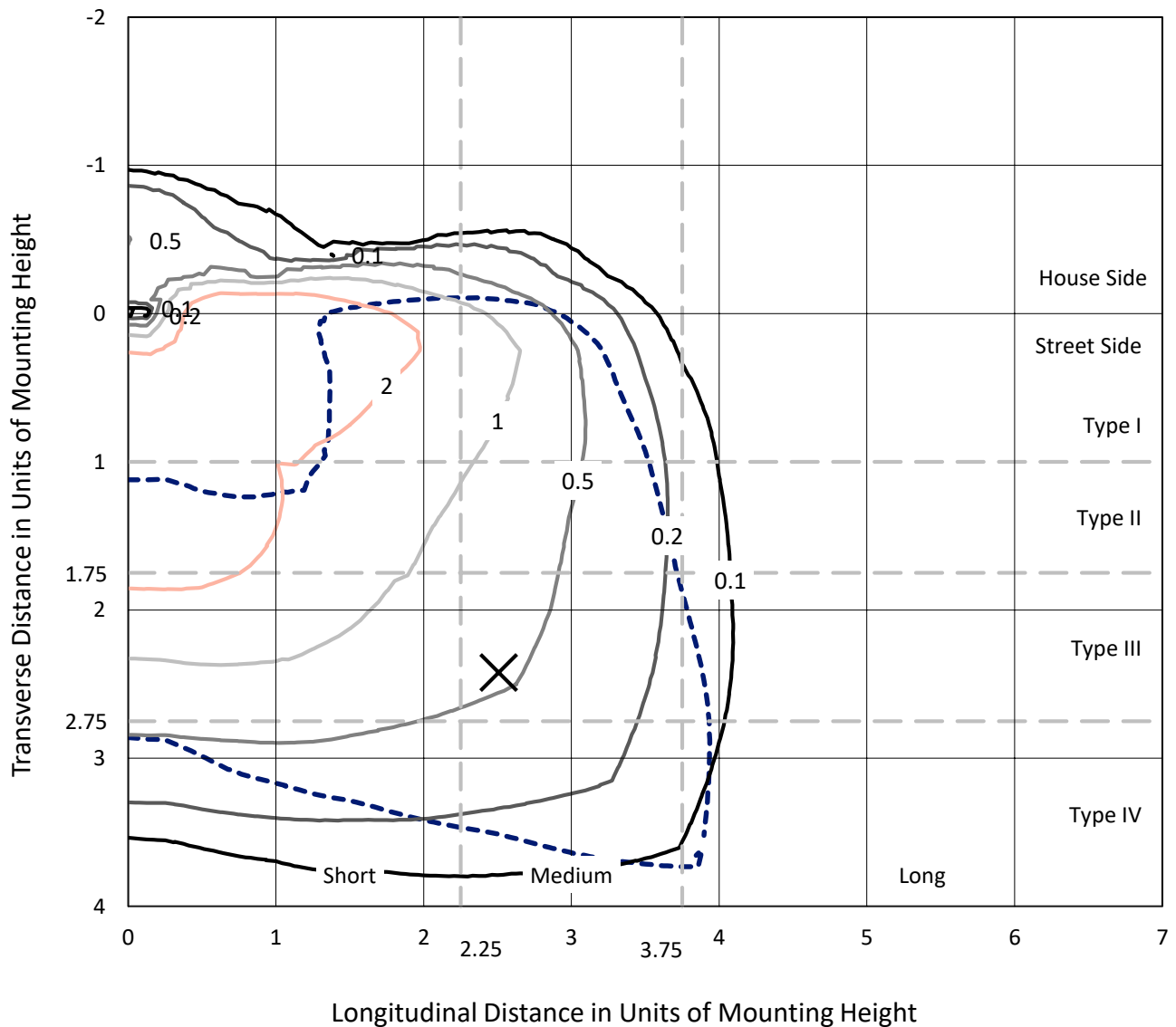
Lumens per Lamp: N/A  
Luminaire Lumens: 3215 lumens  
Efficiency: N/A  
Efficacy: 80.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type IV - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 40  
Input Voltage (V): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

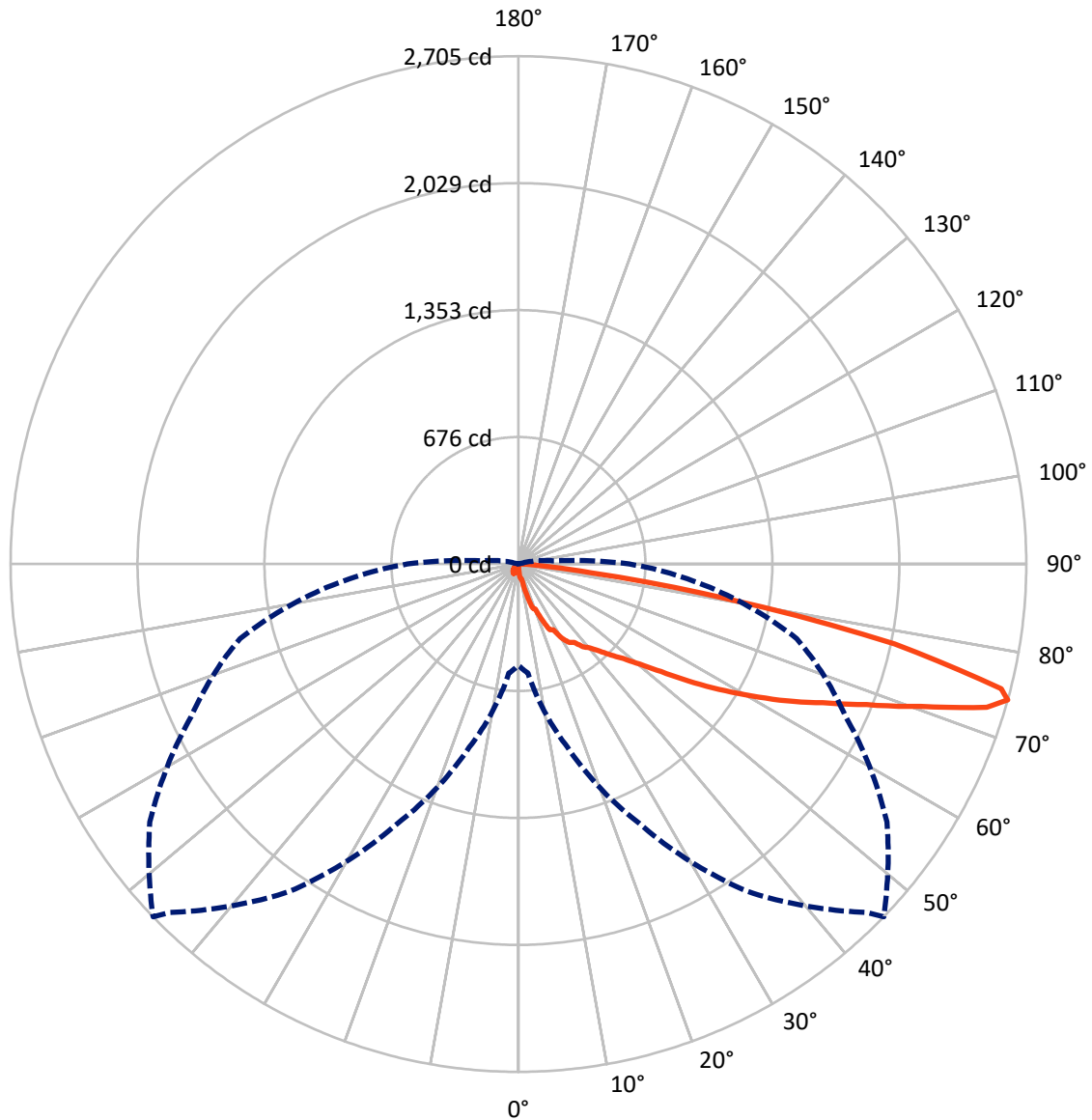
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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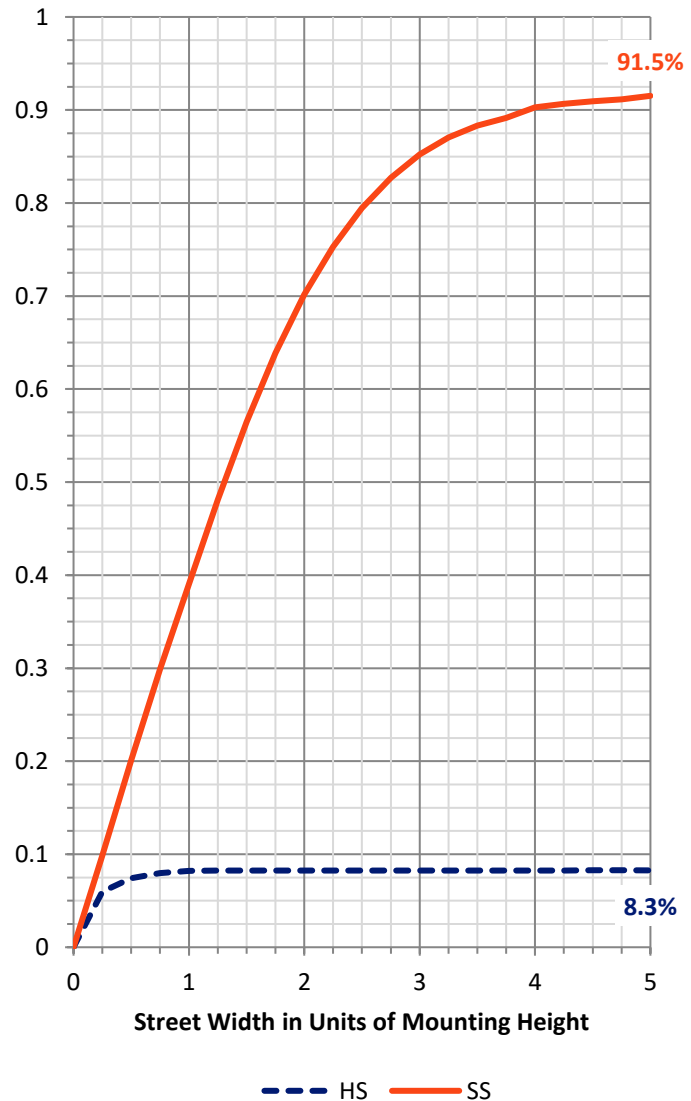
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	267.7	0.0	267.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	2947.3	0.0	2947.3
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	3215.0	0.0	3215.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.9	0.1
10°-20°	35.8	1.1
20°-30°	116.2	3.6
30°-40°	224.6	7.0
40°-50°	377.0	11.7
50°-60°	681.3	21.2
60°-70°	1013.0	31.5
70°-80°	709.8	22.1
80°-90°	54.4	1.7
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°	3215.0	100.0
0°-180°	3215.0	100.0



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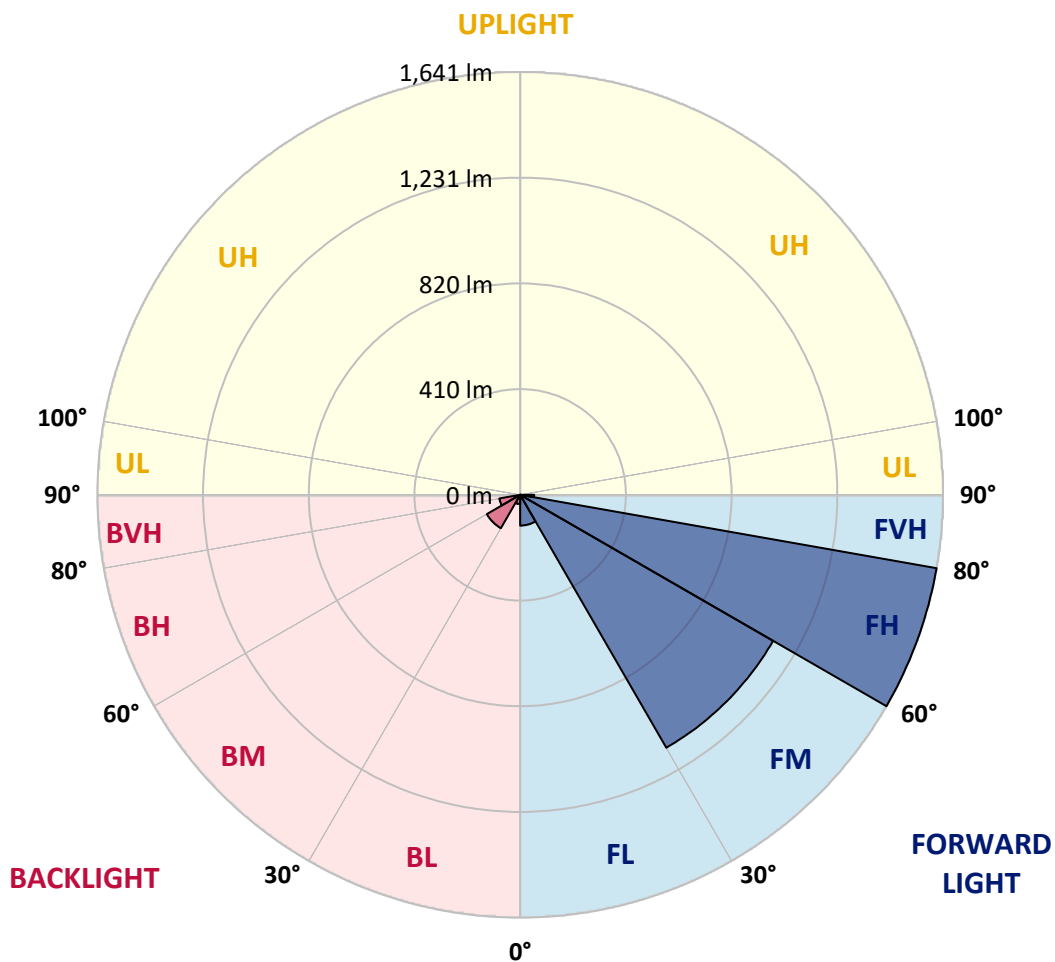
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.3	3.7			
FM (30°-60°)	1133.4	35.3			
FH (60°-80°)	1640.8	51.0			G1/1800
FVH (80°-90°)	53.8	1.7			G1/100
BL (0°-30°)	35.7	1.1	B0/110		
BM (30°-60°)	149.5	4.7	B0/220		
BH (60°-80°)	82.0	2.6	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	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°	17.7	17.7	16.7	14.7	7.6	0.5	0.5	0.0	0.0	0.0	0.5
5°	79.0	79.0	78.5	77.0	74.9	70.4	63.3	17.2	6.1	0.5	0.5
7.5°	86.1	85.1	84.1	82.0	80.0	76.5	76.0	73.4	16.2	1.5	0.5
10°	177.2	176.7	157.5	106.8	89.1	79.5	79.0	76.5	57.2	10.6	4.1
12.5°	187.9	187.3	183.8	178.7	170.6	95.7	93.7	85.6	110.9	105.3	90.6
15°	219.8	219.8	208.6	186.3	177.7	169.6	187.9	179.8	163.5	144.3	102.3
17.5°	307.3	307.3	301.8	279.5	197.5	244.6	247.1	224.8	174.7	197.0	177.2
20°	326.6	322.5	308.9	296.2	328.6	258.7	256.7	240.0	267.3	255.2	220.8
22.5°	424.3	423.3	419.8	314.9	338.7	314.9	323.6	310.9	300.3	269.9	288.6
25°	429.4	426.3	424.3	403.6	352.4	378.7	387.4	323.6	356.5	377.2	360.5
27.5°	541.8	539.8	519.0	412.7	404.6	391.9	396.5	411.1	408.6	396.5	397.5
30°	553.4	551.4	545.8	493.7	429.4	434.4	460.8	441.5	463.3	507.9	520.5
32.5°	682.0	673.9	642.0	507.4	474.4	482.0	498.2	488.1	516.5	530.1	559.0
35°	745.3	714.4	663.3	570.6	486.6	498.2	513.4	537.2	547.4	557.5	590.9
37.5°	820.8	763.1	697.7	594.4	538.2	531.7	558.5	565.1	573.2	601.0	645.6
40°	857.7	823.3	780.8	651.7	559.5	561.0	588.4	596.0	611.7	644.1	708.4
42.5°	953.4	950.4	926.6	714.4	592.4	604.6	634.4	641.0	652.2	702.3	782.8
45°	1106.4	1103.3	1096.7	821.8	646.6	657.7	691.2	707.4	730.6	803.6	887.1
47.5°	1293.2	1281.5	1244.6	986.4	732.7	718.5	752.9	788.4	831.4	915.5	1020.8
50°	1445.1	1447.1	1398.5	1124.1	867.4	799.0	837.5	881.5	944.3	1053.7	1181.8
52.5°	1595.0	1582.8	1526.1	1302.8	1033.4	915.5	951.4	989.4	1082.6	1212.7	1365.6
55°	1682.6	1674.5	1645.6	1467.4	1208.1	1059.8	1099.3	1126.6	1251.7	1362.6	1558.0
57.5°	1775.7	1777.3	1792.4	1651.2	1428.9	1226.9	1258.8	1272.4	1411.2	1536.2	1770.2
60°	1863.8	1870.9	1915.5	1837.0	1621.8	1383.3	1424.8	1420.3	1558.5	1707.9	1995.5
62.5°	1873.0	1898.8	2024.3	2006.1	1820.3	1558.0	1606.1	1573.7	1690.2	1869.4	2233.0
65°	1712.9	1735.7	2024.3	2065.4	1994.0	1738.3	1781.3	1732.7	1818.3	2011.7	2419.3
67.5°	1579.3	1606.6	1880.0	2094.2	2130.2	1948.4	1999.5	1904.9	1951.9	2145.4	2476.0
70°	1475.0	1510.9	1752.9	2116.5	2196.0	2191.4	2272.5	2121.6	2090.7	2210.2	2257.8
72.5°	1007.6	1034.5	1434.5	1858.8	2236.5	2531.7	2608.7	2363.1	2091.7	1962.1	1487.6
74°	539.8	583.3	1010.7	1525.1	2130.2	2624.9	2705.4	2396.5	1923.6	1535.2	902.8
75°	322.0	355.5	680.5	1217.7	1925.6	2570.7	2656.3	2295.7	1716.5	1213.2	600.5
77.5°	130.1	131.6	179.2	473.4	1122.0	1975.2	2049.7	1582.3	972.2	425.3	119.0
80°	45.6	48.6	71.9	142.8	410.1	1077.0	1142.8	755.0	364.1	96.7	28.4
82.5°	21.8	23.3	39.0	76.0	176.7	357.5	391.9	264.3	150.4	83.0	15.2
85°	10.1	10.6	19.7	45.6	80.0	100.8	107.9	97.7	111.9	80.5	8.1
87.5°	5.1	5.1	11.6	21.8	38.0	28.4	28.9	39.0	70.4	64.3	4.6
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	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	36.0	38.5	39.5	39.0
10°	4.1	3.0	1.0	0.0	0.0	38.0	48.6	45.1	42.5	40.5	41.5
12.5°	95.2	97.2	83.5	38.0	35.4	43.0	37.0	30.4	27.3	25.8	25.3
15°	106.8	104.8	96.7	67.8	82.0	40.5	23.8	25.8	39.0	41.5	41.5
17.5°	192.4	187.3	137.7	88.6	66.8	40.0	34.4	34.9	37.0	40.0	40.0
20°	226.8	218.2	174.2	131.1	55.7	43.5	40.5	34.4	42.5	58.2	58.7
22.5°	288.6	272.9	177.2	113.4	58.7	46.1	44.1	48.6	53.2	57.7	58.2
25°	367.6	351.9	257.2	111.4	54.7	52.2	52.7	50.6	50.6	68.9	71.9
27.5°	442.5	386.8	239.0	94.2	58.7	55.7	53.7	62.8	63.8	69.9	70.4
30°	539.8	517.0	278.5	77.0	56.7	54.2	61.3	62.3	61.3	78.0	80.0
32.5°	574.2	543.8	249.6	70.4	55.2	52.7	56.2	63.3	67.3	73.9	75.4
35°	613.2	574.7	215.7	64.3	56.7	48.6	52.2	57.2	63.3	78.0	79.5
37.5°	659.3	606.1	177.7	60.3	52.7	46.1	47.6	53.2	59.7	66.3	67.3
40°	716.5	644.1	143.8	56.7	49.1	42.0	42.0	44.6	46.6	50.1	51.6
42.5°	789.4	684.6	107.3	53.7	46.1	37.5	36.0	35.4	33.4	33.9	33.9
45°	894.7	732.7	80.5	51.6	44.6	33.4	29.9	24.8	20.8	19.7	20.8
47.5°	1023.3	798.0	64.8	49.1	42.5	28.4	21.8	14.7	11.6	12.2	12.7
50°	1167.6	863.3	60.3	45.6	38.5	23.3	13.7	7.6	6.6	7.1	7.6
52.5°	1300.3	911.4	57.2	42.5	33.9	16.7	7.1	3.5	3.5	4.1	4.6
55°	1435.5	945.3	55.2	40.0	27.8	10.6	3.0	2.0	2.0	2.0	2.0
57.5°	1561.6	965.6	51.1	35.4	19.2	5.1	1.5	1.0	1.0	0.5	0.5
60°	1675.0	973.2	40.0	26.8	11.1	1.5	0.5	0.5	0.0	0.0	0.0
62.5°	1790.9	970.7	26.3	17.7	6.1	0.5	0.0	0.0	0.0	0.0	0.0
65°	1851.2	949.4	16.7	11.6	3.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1807.6	874.4	11.6	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	1566.6	709.9	9.1	5.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1018.8	388.9	7.6	4.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
74°	590.4	191.4	6.6	4.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	381.8	99.7	6.1	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	64.3	21.8	3.5	2.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0
80°	20.8	7.1	2.0	1.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0
82.5°	10.6	4.1	1.5	1.5	1.5	0.0	0.5	0.5	0.0	0.0	0.0
85°	5.1	2.5	1.5	1.0	1.5	0.0	1.0	0.0	0.0	0.0	0.0
87.5°	3.0	2.0	1.0	1.0	1.5	0.0	1.0	0.5	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)