

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: P239616

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-13-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  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 4000K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
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: 4420 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
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

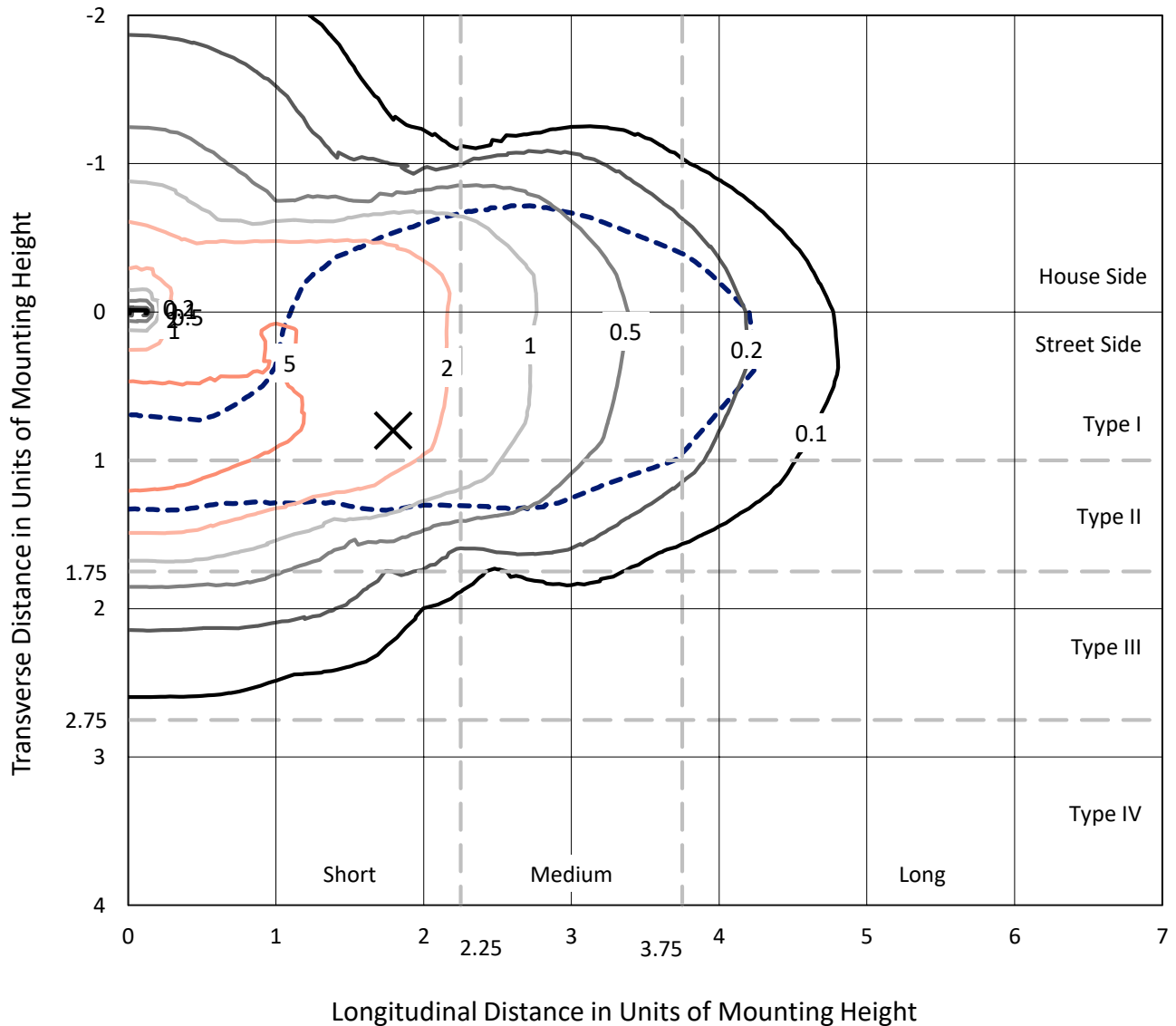


REPORT NUMBER: P239616

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

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

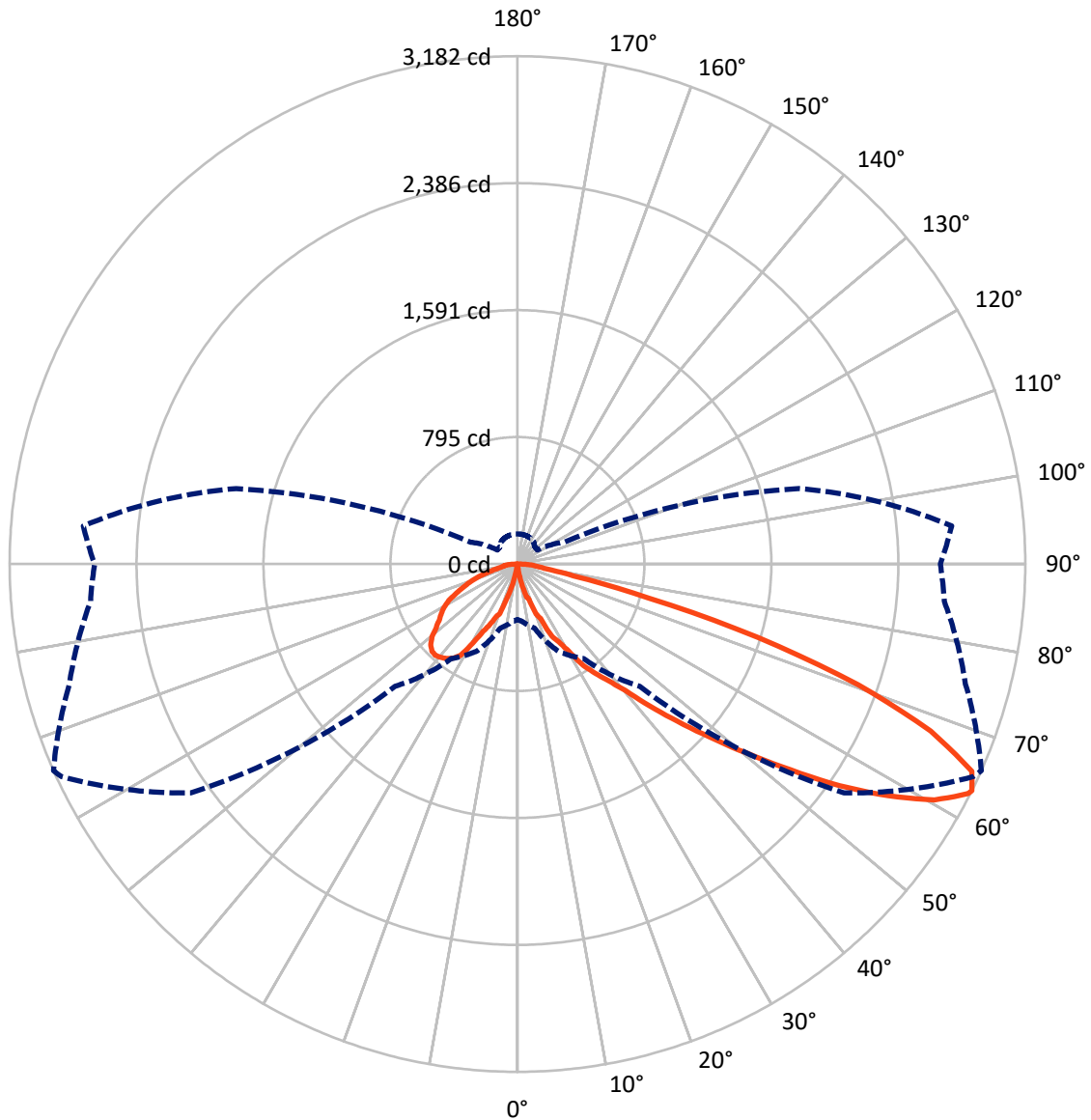


Based on 10 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P239616

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

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical



REPORT NUMBER: P239616

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

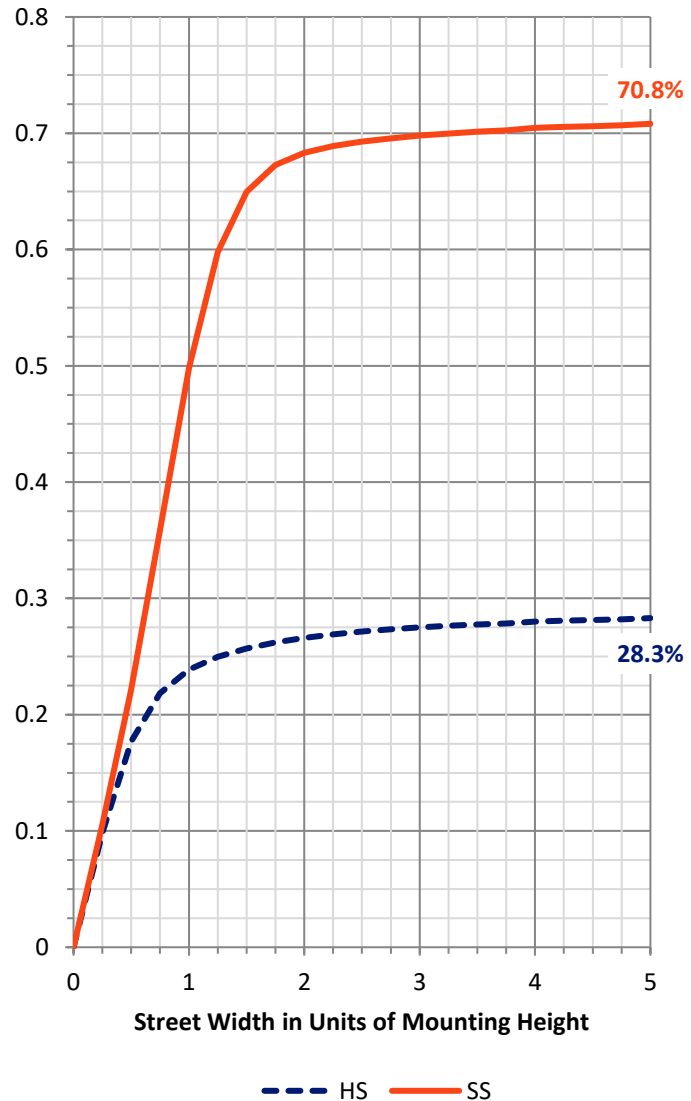
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1273.0	0.0	1273.0
	% Fixture	28.8	0.0	28.8
<b>Street Side</b>	Lumens	3147.0	0.0	3147.0
	% Fixture	71.2	0.0	71.2
<b>Total</b>	Lumens	4420.0	0.0	4420.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.3	0.1
10°-20°	58.4	1.3
20°-30°	214.6	4.9
30°-40°	488.3	11.0
40°-50°	879.3	19.9
50°-60°	1148.0	26.0
60°-70°	1019.9	23.1
70°-80°	518.1	11.7
80°-90°	89.0	2.0
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°	4420.0	100.0
0°-180°	4420.0	100.0



REPORT NUMBER: P239616

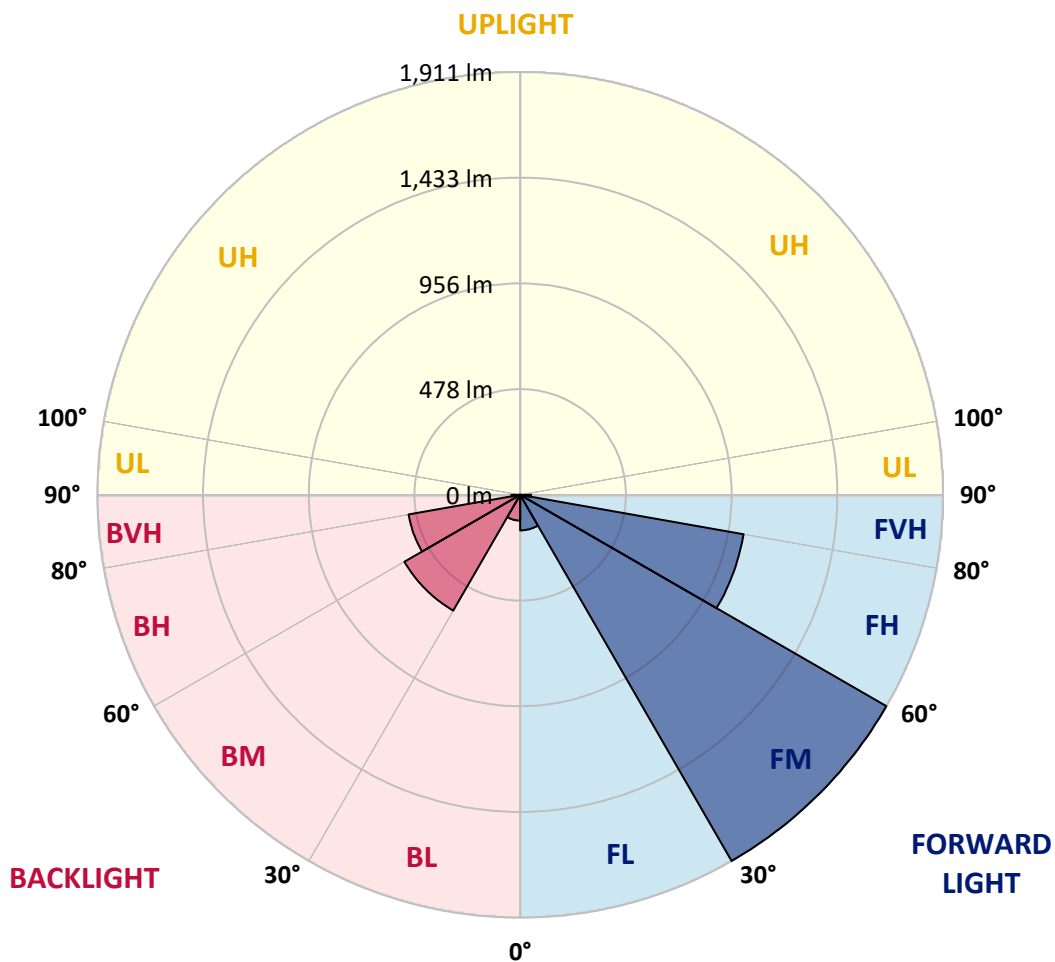
CATALOG NUMBER: UTLD-AF24-40-D-U-T2U

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	160.7	3.6			
FM	(30°-60°)	1911.2	43.2			
FH	(60°-80°)	1025.6	23.2			G1/1800
FVH	(80°-90°)	49.4	1.1			G1/100
BL	(0°-30°)	116.5	2.6	B1/500		
BM	(30°-60°)	604.5	13.7	B1/1000		
BH	(60°-80°)	512.4	11.6	B2/1000		G2/1000
BVH	(80°-90°)	39.6	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P239616

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	11.1	11.1	9.6	7.6	6.1	5.1	3.5	2.5	2.5	1.5	1.0
5°	102.2	102.2	101.7	101.2	100.2	96.2	17.7	5.6	5.1	2.5	1.5
7.5°	104.3	103.8	103.8	102.8	102.2	100.2	98.7	38.5	32.4	5.6	3.0
10°	186.8	185.8	184.2	124.5	105.3	102.8	102.2	80.5	80.0	17.2	12.7
12.5°	194.9	195.4	193.9	192.3	188.3	117.9	112.9	145.8	148.3	170.6	132.6
15°	222.2	219.2	208.0	200.9	197.4	185.3	211.1	210.6	211.6	199.9	151.8
17.5°	315.3	314.3	311.8	292.6	217.1	278.4	266.2	226.8	229.8	262.2	262.2
20°	355.8	355.3	346.2	335.6	372.5	300.2	286.0	333.1	335.6	339.1	313.8
22.5°	534.5	534.0	512.2	393.8	418.6	376.6	378.6	379.6	370.5	365.5	392.8
25°	620.1	616.0	603.9	568.4	496.5	501.6	414.0	498.1	502.1	499.1	493.0
27.5°	874.7	875.2	773.9	670.7	609.4	564.4	569.4	552.7	552.2	543.1	567.4
30°	1019.4	1012.3	976.9	876.7	727.4	667.1	639.3	649.9	633.7	690.9	686.4
32.5°	1360.6	1360.6	1238.1	1017.4	876.7	827.1	743.1	746.1	758.2	750.1	761.8
35°	1600.5	1577.7	1456.7	1277.6	994.1	929.8	879.7	835.7	840.7	826.6	837.7
37.5°	1855.1	1832.3	1698.7	1468.9	1201.6	1087.2	994.6	940.0	927.3	928.3	936.9
40°	2053.0	2040.4	1958.4	1704.8	1406.6	1255.3	1129.3	1054.9	1041.2	1066.0	1093.8
42.5°	2191.2	2186.1	2137.5	1913.8	1648.6	1509.9	1321.6	1213.8	1216.3	1229.5	1257.3
45°	2246.4	2234.7	2233.2	2045.9	1866.7	1796.9	1573.2	1395.0	1404.1	1440.0	1445.6
47.5°	2186.1	2161.8	2205.9	2100.6	2047.9	2052.5	1860.7	1628.8	1619.7	1654.2	1651.1
50°	1965.4	1957.3	2041.9	2058.6	2137.5	2242.3	2176.0	1889.5	1863.2	1866.2	1845.5
52.5°	1623.3	1643.0	1754.4	1870.8	2095.5	2345.1	2457.9	2164.9	2142.1	2077.8	2037.8
55°	1304.9	1328.7	1449.2	1539.8	1882.4	2338.0	2664.0	2440.2	2452.9	2287.9	2213.5
57.5°	955.1	986.0	1146.0	1222.4	1542.3	2167.4	2768.7	2708.5	2739.4	2495.4	2380.5
60°	610.4	622.1	783.5	935.4	1122.2	1766.0	2758.6	2964.6	3001.6	2719.1	2535.9
62.5°	381.1	393.8	446.4	658.5	793.7	1197.1	2563.2	3134.7	3168.6	2879.6	2665.5
63°	347.2	361.9	416.1	601.8	723.3	1083.2	2498.4	3151.9	3181.8	2906.4	2684.7
65°	258.7	264.7	293.1	405.9	531.0	680.3	2045.9	3091.7	3129.1	2929.2	2692.3
67.5°	225.8	228.3	238.4	267.8	379.6	395.8	1192.0	2769.7	2793.0	2843.1	2596.6
70°	206.5	208.0	226.3	228.3	297.6	280.9	437.3	2176.0	2264.1	2668.5	2430.1
72.5°	179.2	181.2	202.5	222.2	230.8	223.2	236.4	1469.4	1575.7	2279.8	2247.4
75°	149.8	151.8	170.6	196.9	200.9	177.2	193.9	769.9	845.3	1671.4	1965.9
77.5°	123.0	124.5	141.2	159.4	184.8	136.2	157.4	290.0	359.4	1032.6	1415.2
80°	84.5	88.6	106.8	123.5	141.2	123.5	117.9	166.0	175.6	501.1	723.3
82.5°	64.3	65.3	83.0	90.1	99.7	122.0	92.6	125.0	132.1	233.3	234.9
85°	44.5	43.5	58.7	62.8	69.3	76.9	77.4	91.1	94.1	134.6	98.7
87.5°	20.2	19.2	31.9	30.9	34.9	38.0	55.2	50.1	51.1	84.5	53.1
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: P239616

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2.5°	1.0	1.0	1.0	1.5	1.5	1.5	1.0	0.5	0.5	0.5	0.5
5°	1.0	1.0	1.0	1.5	1.5	2.0	2.5	2.5	3.0	3.5	3.5
7.5°	2.5	2.0	2.0	2.0	3.0	4.6	12.1	52.6	92.1	97.2	98.7
10°	11.1	11.1	8.1	6.6	7.6	83.0	107.3	110.9	112.9	113.9	113.9
12.5°	138.2	154.4	144.3	77.4	83.5	103.3	114.9	117.4	120.5	146.3	151.3
15°	168.0	169.6	171.1	158.9	220.2	162.5	135.7	205.0	208.5	210.1	209.6
17.5°	255.1	259.7	239.9	213.6	233.8	241.9	197.4	216.1	219.7	222.7	222.7
20°	331.0	331.5	310.8	332.6	284.5	294.6	257.1	244.0	313.3	316.4	315.8
22.5°	408.0	414.0	342.7	354.8	374.1	312.3	325.0	289.5	304.7	304.7	304.2
25°	505.2	503.1	469.7	410.5	392.8	369.5	333.6	302.2	343.7	363.4	363.4
27.5°	598.8	569.9	489.5	472.3	450.5	387.7	329.5	346.7	337.1	339.6	339.1
30°	707.1	698.5	625.6	562.4	462.6	376.6	344.7	313.8	330.5	350.3	348.2
32.5°	761.8	739.5	652.4	679.3	484.9	362.9	300.2	295.1	300.2	307.2	308.3
35°	833.7	797.2	711.7	716.7	488.5	318.4	267.3	264.2	292.1	305.2	306.7
37.5°	926.3	882.8	810.9	733.4	458.6	280.9	236.9	253.6	263.2	269.3	267.3
40°	1045.2	993.6	940.0	738.0	408.5	242.5	220.2	233.8	243.0	244.5	244.5
42.5°	1191.0	1119.6	1072.6	735.5	343.2	222.2	209.0	219.7	231.3	230.3	229.3
45°	1363.1	1277.1	1180.9	718.2	279.4	211.1	203.5	210.6	219.2	215.6	214.1
47.5°	1548.9	1456.2	1276.6	683.3	237.9	203.0	200.4	200.4	210.1	209.0	208.5
50°	1737.2	1642.0	1376.8	629.7	215.1	195.9	190.3	196.9	208.0	206.0	205.0
52.5°	1923.4	1837.9	1454.7	555.3	200.9	189.8	186.3	194.9	205.0	203.0	202.5
55°	2095.0	2039.8	1538.2	496.0	186.3	179.2	186.3	193.4	201.5	199.4	199.4
57.5°	2272.2	2256.0	1642.5	449.0	174.1	171.1	184.2	190.8	197.4	196.4	196.4
60°	2449.8	2494.4	1738.2	398.9	164.5	161.5	180.2	187.8	193.4	192.8	192.8
62.5°	2621.4	2703.9	1813.6	340.1	155.4	153.9	175.1	183.7	188.3	189.3	189.3
63°	2649.3	2730.8	1824.7	322.9	153.4	152.9	174.1	182.7	186.8	188.3	188.3
65°	2700.9	2796.1	1842.4	265.7	144.8	147.3	168.6	179.2	181.7	185.3	184.2
67.5°	2654.3	2733.8	1789.8	205.0	134.1	139.2	159.9	171.6	174.1	179.2	176.7
70°	2550.1	2545.0	1611.6	167.0	126.0	130.6	150.3	163.0	164.0	169.1	164.0
72.5°	2353.7	2175.5	1270.0	141.7	117.9	122.0	140.2	152.4	152.9	154.9	149.8
75°	1967.5	1692.1	763.3	122.5	107.8	110.9	129.1	139.2	140.7	137.7	135.1
77.5°	1343.4	1064.0	347.7	107.3	98.7	99.2	115.4	124.5	125.0	118.4	118.4
80°	646.4	498.6	144.8	96.2	89.6	87.6	101.2	108.3	107.8	100.2	97.2
82.5°	204.5	182.2	107.8	84.0	80.0	75.4	88.1	91.1	91.6	92.1	73.9
85°	81.5	84.5	83.5	69.3	67.3	57.2	70.4	74.4	72.9	61.2	52.1
87.5°	42.5	52.1	51.1	46.6	48.1	36.4	48.6	46.6	47.6	31.9	24.8
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)