

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: P239446

Luminaire Tested: **UTLD-AF24-50-D-U-T3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P239446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-10-U0)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-50-D-U-T3-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 3000K, 670mA LIGHT ENGINE WITH 24 LEDS AND TYPE III 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: 4976 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54  
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

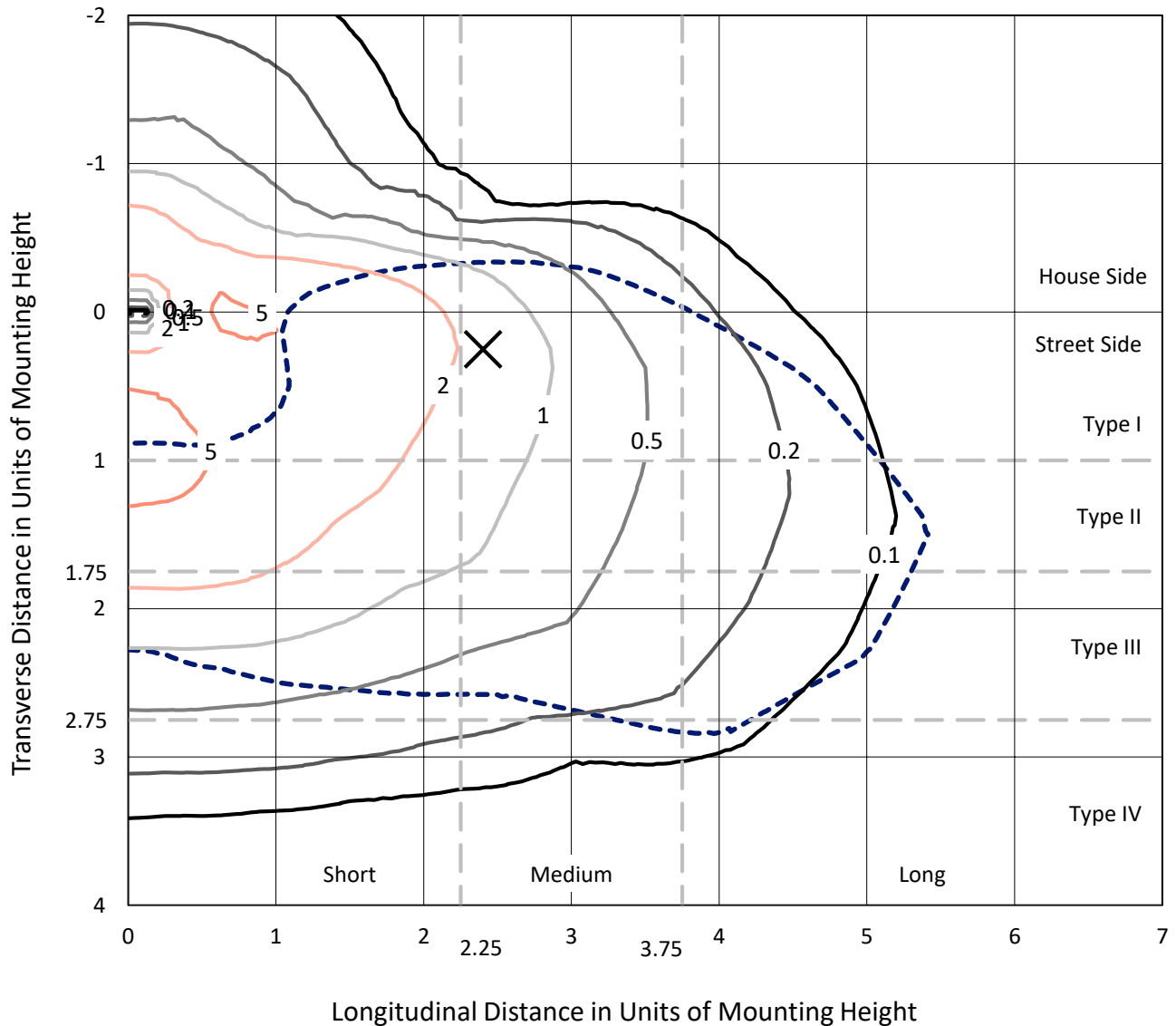


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

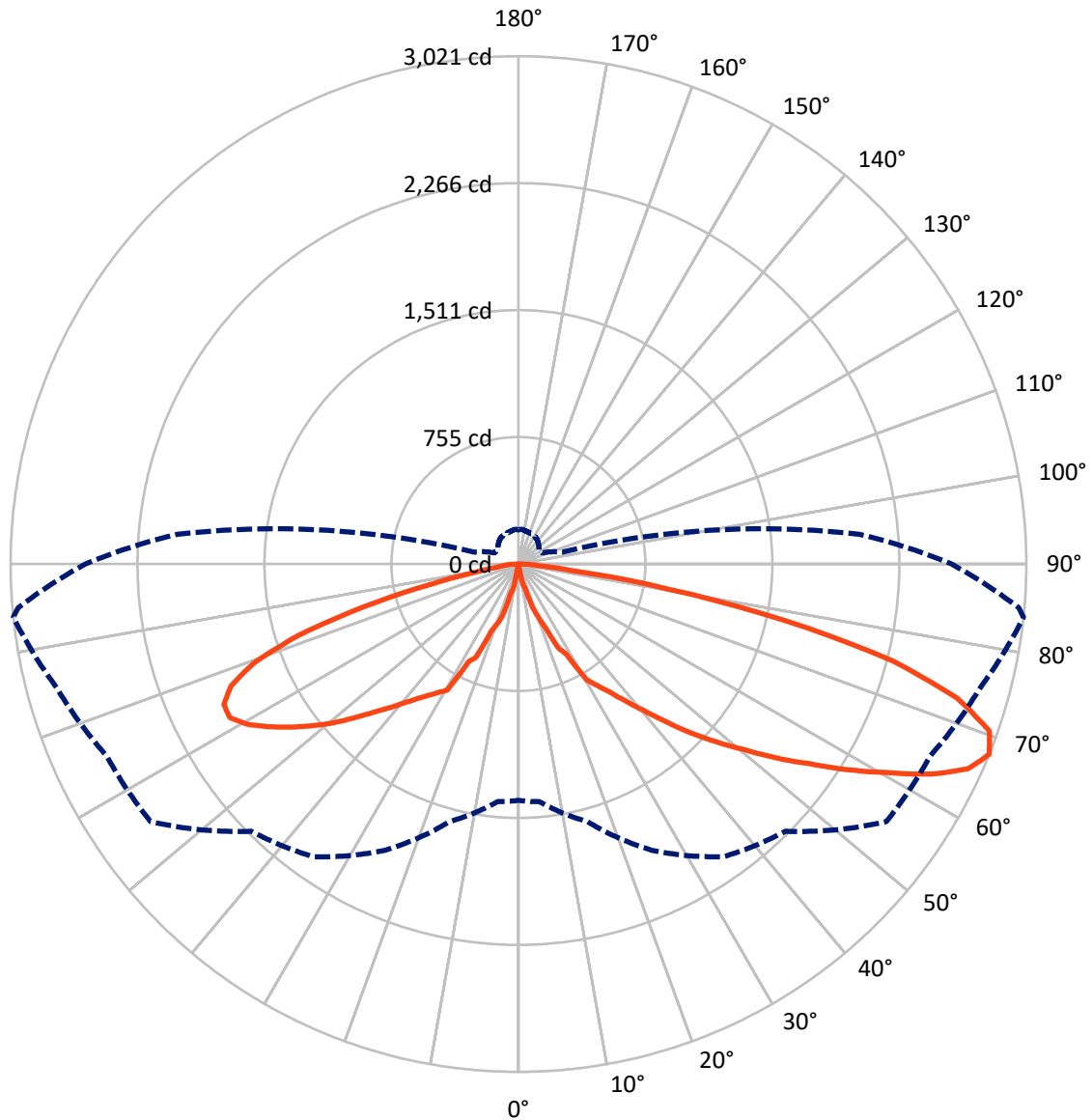


Based on 10 foot mounting height. Maximum calculated value = 6.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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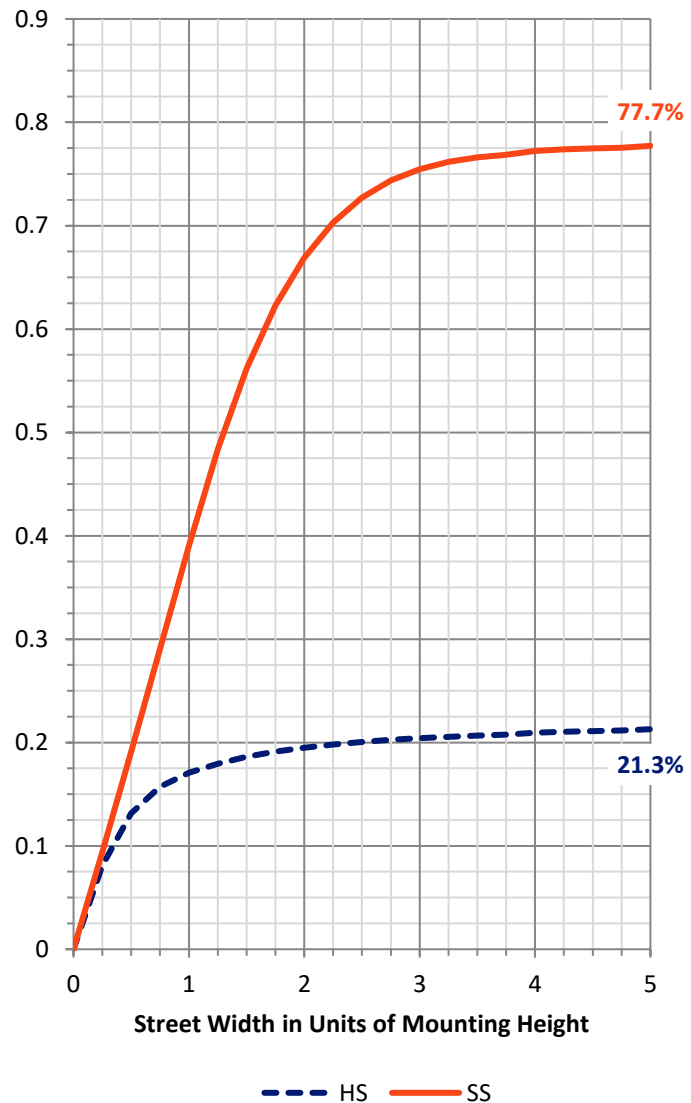
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1087.7	0.0	1087.7
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	3888.3	0.0	3888.3
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	4976.0	0.0	4976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.1	0.1
10°-20°	59.8	1.2
20°-30°	220.2	4.4
30°-40°	446.9	9.0
40°-50°	739.5	14.9
50°-60°	1122.4	22.6
60°-70°	1339.0	26.9
70°-80°	896.8	18.0
80°-90°	147.3	3.0
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°	4976.0	100.0
0°-180°	4976.0	100.0

**Coefficient of Utilization**



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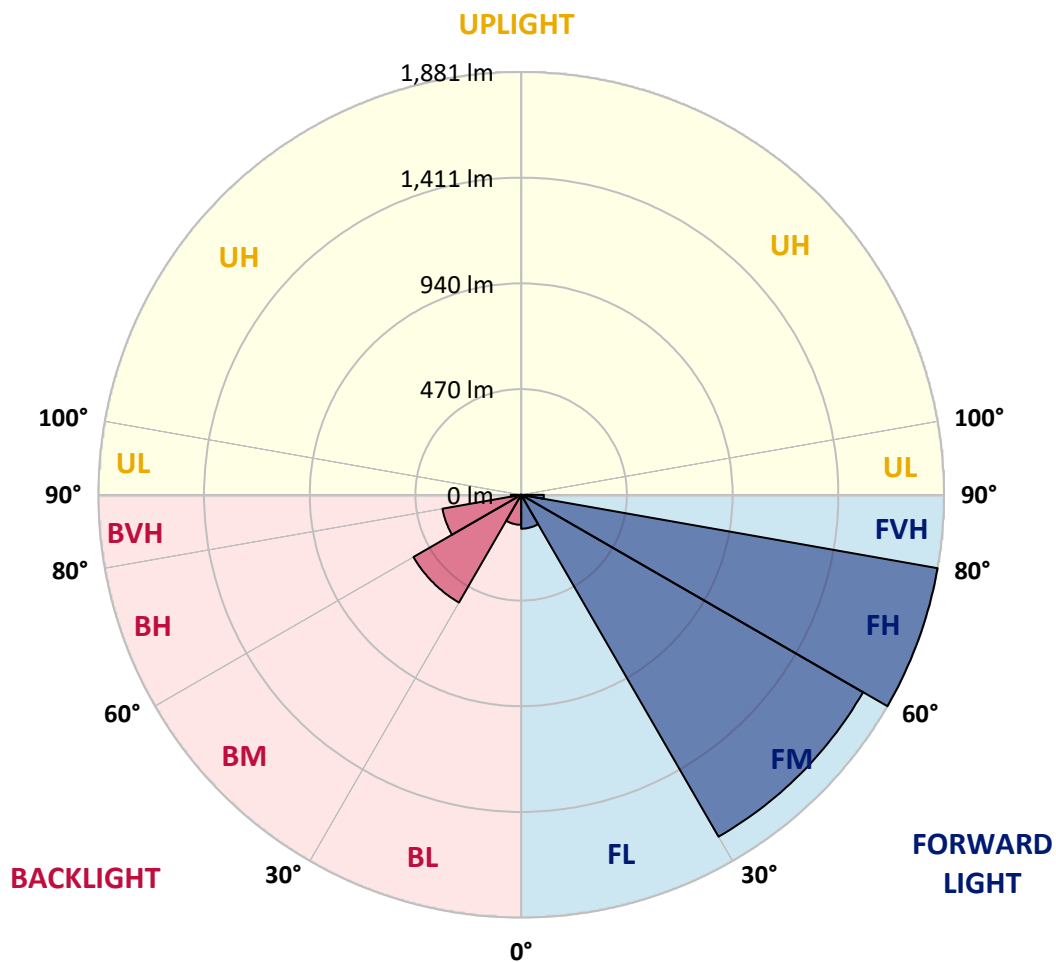
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.7	3.0			
FM	(30°-60°)	1755.9	35.3			
FH	(60°-80°)	1880.7	37.8			G2/5000
FVH	(80°-90°)	101.1	2.0			G2/225
BL	(0°-30°)	133.4	2.7	B1/500		
BM	(30°-60°)	553.0	11.1	B1/1000		
BH	(60°-80°)	355.1	7.1	B1/500		G1/500
BVH	(80°-90°)	46.2	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	25.9	25.3	21.8	16.1	8.6	4.6	2.3	1.7	1.1	1.1	1.1
5°	92.5	92.5	93.1	92.5	90.2	85.6	25.9	8.6	2.3	1.1	1.1
7.5°	92.0	92.5	92.5	92.5	92.5	91.4	89.7	47.1	5.7	2.3	2.3
10°	166.1	165.5	164.4	118.4	98.3	93.1	93.7	76.4	20.7	10.3	9.8
12.5°	175.9	175.3	175.3	175.3	171.3	112.7	104.6	138.5	159.2	128.2	128.2
15°	212.7	211.0	196.6	183.4	180.5	175.9	196.6	197.7	197.2	146.6	155.8
17.5°	286.3	286.3	279.9	260.4	205.8	246.6	254.1	217.9	264.4	267.3	289.7
20°	332.2	335.1	316.7	303.5	323.6	269.6	278.8	329.9	348.9	338.6	339.1
22.5°	495.5	490.3	459.8	366.2	374.2	337.4	359.3	384.0	386.3	408.7	394.3
25°	559.3	558.7	544.9	517.9	440.9	437.4	392.6	486.3	535.7	551.8	558.1
27.5°	745.5	744.4	662.7	592.6	544.3	494.9	512.7	553.5	573.1	608.1	612.2
30°	803.6	803.0	772.5	727.7	637.5	605.3	589.2	641.5	753.6	798.4	805.9
32.5°	1022.0	1019.1	912.8	780.6	739.2	697.8	684.0	757.6	813.9	861.1	867.4
35°	1116.8	1121.4	1059.4	938.1	794.4	760.5	805.3	845.5	882.9	934.6	945.0
37.5°	1206.5	1221.5	1197.9	1034.1	902.4	853.0	897.8	918.5	992.7	1032.3	1041.0
40°	1368.0	1371.5	1324.3	1157.1	1014.5	951.3	1000.2	1030.6	1092.7	1143.9	1151.9
42.5°	1607.2	1595.1	1511.7	1330.7	1138.7	1081.2	1108.2	1134.7	1233.0	1278.9	1288.1
45°	1828.5	1825.6	1754.3	1522.7	1318.6	1226.6	1235.8	1246.2	1353.1	1431.3	1414.6
47.5°	1991.1	1977.3	1953.8	1738.8	1562.3	1395.6	1358.8	1349.6	1495.1	1579.0	1570.9
50°	2158.4	2133.7	2111.8	1906.0	1776.7	1581.3	1477.8	1480.1	1650.8	1734.2	1731.9
52.5°	2268.8	2223.3	2217.6	2054.9	1929.0	1766.4	1616.9	1638.2	1812.9	1914.1	1910.1
55°	2227.9	2225.6	2282.5	2173.9	2068.1	1883.1	1768.1	1806.6	1983.6	2096.9	2117.0
57.5°	2107.2	2133.1	2257.3	2242.9	2229.7	2001.5	1948.0	2000.9	2201.5	2307.8	2321.1
60°	1999.7	2026.2	2180.8	2244.6	2305.5	2108.4	2141.7	2229.7	2375.7	2519.9	2552.1
62.5°	1814.1	1850.9	2038.8	2232.5	2268.8	2190.0	2338.3	2411.9	2552.7	2752.7	2774.0
65°	1612.3	1627.8	1818.7	2090.0	2223.3	2232.0	2514.8	2572.2	2718.2	2939.0	2947.0
67.5°	1406.5	1419.2	1587.0	1878.5	2126.2	2248.1	2671.7	2702.2	2843.6	3021.2	2988.4
70°	1114.0	1141.0	1257.1	1542.2	1954.3	2232.5	2818.3	2766.5	2886.7	2971.7	2888.4
72.5°	636.9	635.7	765.1	1011.1	1476.1	2027.3	2893.6	2778.6	2843.0	2729.7	2618.8
75°	229.9	217.3	279.4	439.2	784.6	1432.4	2660.8	2702.2	2651.6	2299.8	2151.5
77.5°	114.4	119.0	141.4	204.6	342.6	646.7	1951.5	2236.0	2247.5	1625.0	1529.6
80°	85.1	88.5	104.0	135.1	202.3	228.2	924.3	1408.3	1481.3	905.9	837.5
82.5°	67.8	69.6	85.6	97.7	149.4	127.6	239.7	617.3	692.6	325.9	305.2
85°	65.0	65.5	73.6	70.7	105.2	81.6	116.1	224.2	253.5	116.7	108.6
87.5°	35.1	35.1	69.6	48.9	59.8	43.1	67.8	94.8	123.0	60.9	58.6
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°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.6	0.6	0.6	1.1	1.1
5°	1.1	1.1	1.1	1.7	1.7	2.3	2.3	3.4	4.0	4.6	4.0
7.5°	1.7	1.7	1.7	2.9	3.4	5.2	11.5	46.0	89.7	93.1	92.0
10°	10.9	10.9	7.5	6.9	8.6	82.2	114.4	119.0	123.6	125.3	125.3
12.5°	140.3	154.0	151.7	115.0	85.1	119.6	127.6	131.1	137.4	165.5	170.7
15°	169.6	175.3	180.5	169.0	243.1	144.9	150.6	236.8	248.9	250.6	250.6
17.5°	299.5	328.2	239.7	235.1	261.0	273.0	230.5	251.8	254.1	255.8	256.9
20°	366.2	377.6	360.4	389.7	286.3	338.6	306.4	272.5	355.8	365.6	366.2
22.5°	426.5	434.0	408.1	419.6	419.0	344.3	352.4	332.8	359.3	359.8	360.4
25°	589.7	611.0	592.6	539.7	423.6	406.4	366.7	348.3	407.5	430.0	431.7
27.5°	654.7	655.3	609.9	551.8	467.9	418.5	359.3	409.3	404.7	407.5	408.1
30°	850.7	870.8	785.8	561.0	446.6	395.5	393.7	385.7	411.6	443.7	443.7
32.5°	912.8	911.6	799.6	617.9	435.1	389.1	357.5	385.1	396.0	405.2	404.1
35°	970.8	962.8	815.6	586.9	431.7	348.9	336.3	346.0	388.0	407.0	405.8
37.5°	1045.6	1022.6	824.3	542.6	390.9	328.2	310.4	331.7	344.3	346.0	343.2
40°	1135.8	1096.2	839.2	507.0	354.7	302.3	288.6	296.0	304.1	296.6	292.6
42.5°	1240.4	1185.8	848.4	467.9	326.5	282.8	266.1	270.7	274.8	265.6	262.1
45°	1370.9	1280.7	850.7	432.8	304.1	267.3	246.6	249.5	254.6	247.2	245.4
47.5°	1521.5	1397.9	851.9	408.1	284.5	250.6	230.5	233.4	239.7	232.2	230.5
50°	1692.8	1523.8	858.8	384.5	259.8	232.8	217.3	220.7	227.6	220.1	219.6
52.5°	1875.6	1641.1	859.3	351.2	233.4	216.1	208.1	216.7	234.5	219.0	217.3
55°	2052.0	1760.0	862.2	302.9	207.5	204.1	202.3	223.0	247.2	218.4	214.4
57.5°	2235.4	1879.0	855.9	254.6	190.3	193.1	206.4	224.7	243.7	218.4	212.1
60°	2410.2	1998.0	784.6	215.6	176.5	185.7	208.7	220.1	223.0	214.4	211.0
62.5°	2564.2	2091.1	632.3	190.8	165.5	181.1	204.6	209.2	211.0	210.4	208.7
65°	2629.2	2109.0	428.8	173.0	156.3	175.9	197.2	201.8	204.6	206.9	204.1
67.5°	2576.3	2034.8	270.2	156.9	148.9	169.0	186.8	194.9	198.9	207.5	203.5
70°	2402.7	1841.7	197.2	146.6	140.8	158.6	177.6	189.1	193.1	201.2	194.9
72.5°	2084.8	1512.9	163.2	133.9	131.6	149.4	169.6	182.8	183.9	183.9	178.8
75°	1578.4	1052.5	139.1	123.0	120.1	139.1	160.9	172.4	172.4	166.7	163.2
77.5°	989.2	580.0	120.7	112.7	109.2	127.0	151.2	159.8	158.1	151.2	148.3
80°	472.5	246.0	106.3	101.2	99.4	115.5	140.3	146.0	142.6	135.7	129.9
82.5°	189.1	120.1	93.7	88.5	88.5	103.5	129.3	133.4	128.2	137.4	108.6
85°	86.8	79.9	75.9	73.0	74.7	83.9	112.7	116.7	111.5	93.1	87.9
87.5°	48.9	54.0	44.8	46.6	50.6	59.2	83.9	79.9	79.3	60.4	54.6
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)