

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: P157105

Luminaire Tested: **UTLD-F02-LED-E-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157105  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33670)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-F02-LED-E-U-SL4  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4154.3 lumens  
Efficiency: N/A  
Efficacy: 75.5 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

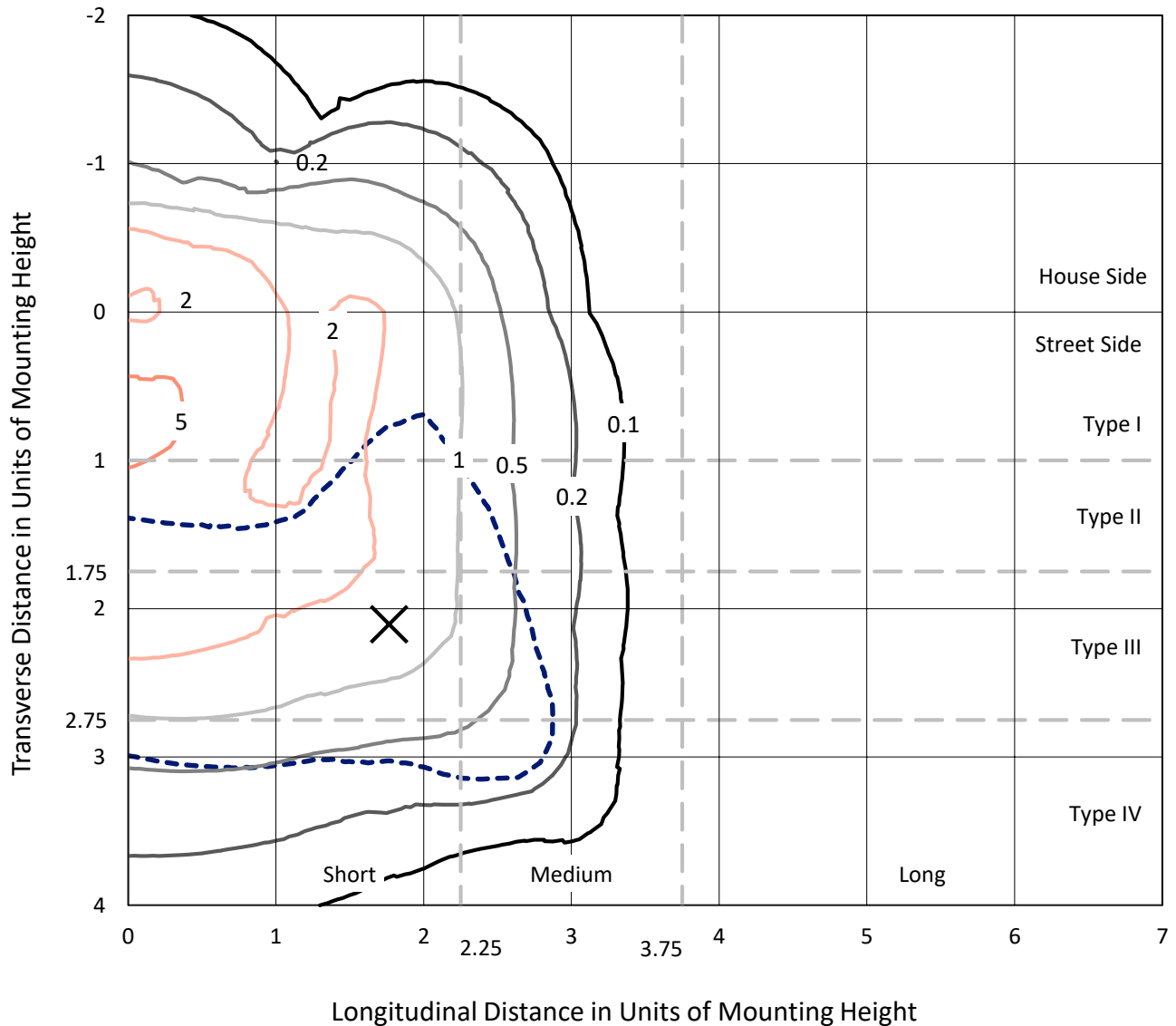
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

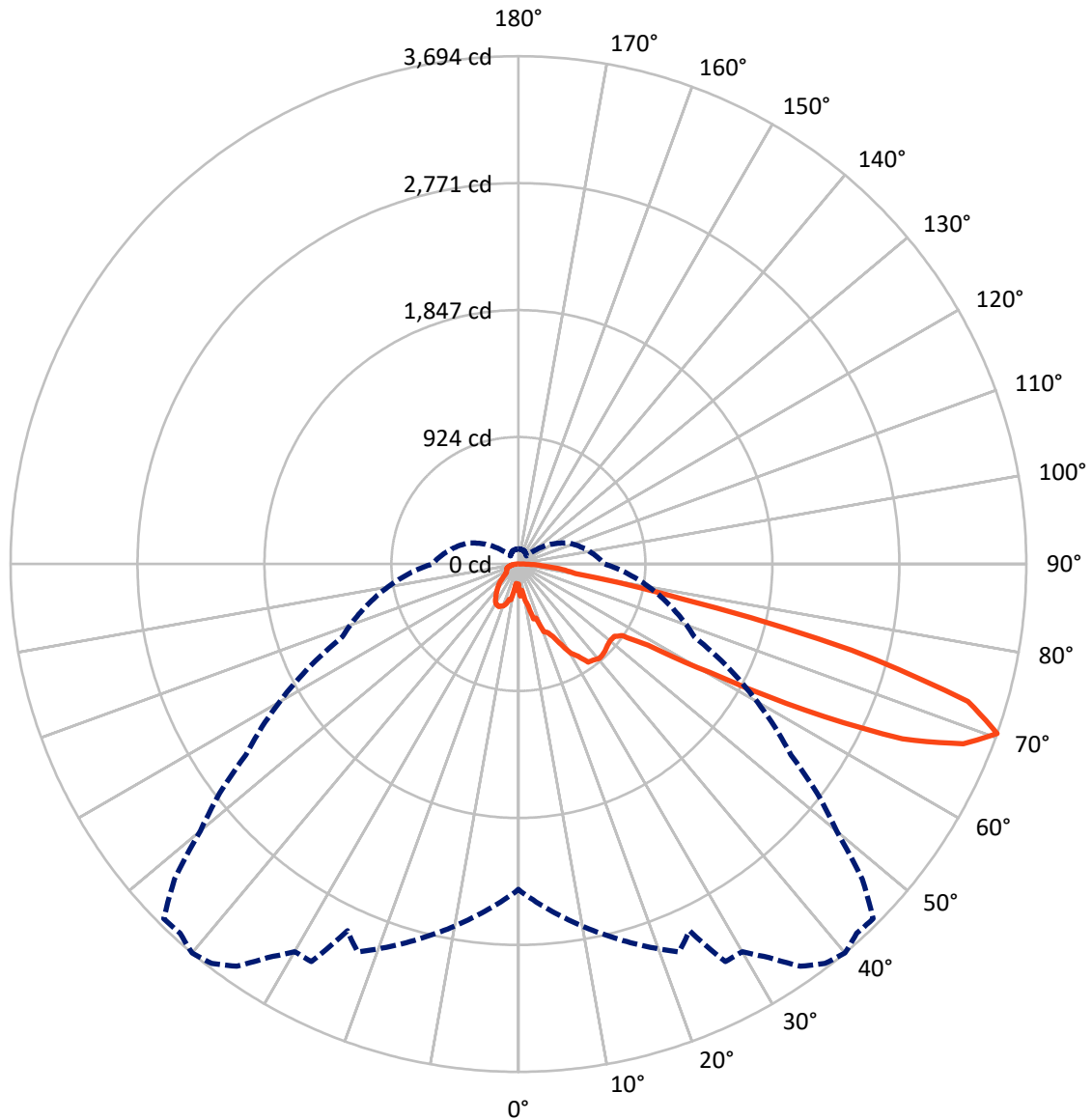
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.8 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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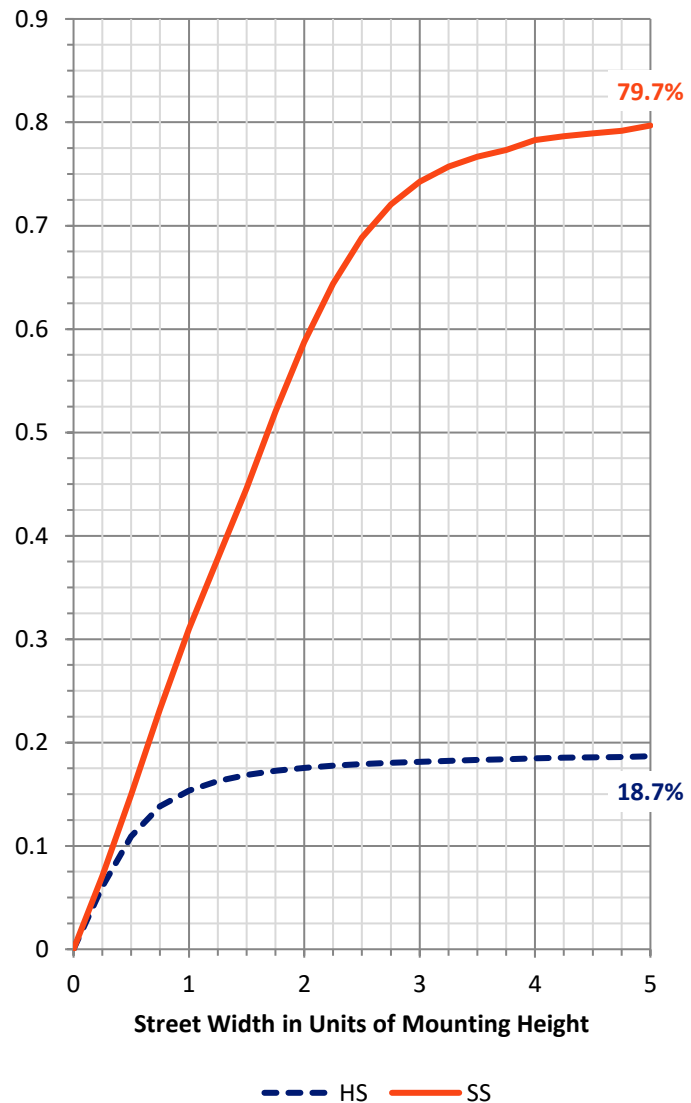
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	787.2	0.0	787.2
	% Fixture	18.9	0.0	18.9
<b>Street Side</b>	Lumens	3367.1	0.0	3367.1
	% Fixture	81.1	0.0	81.1
<b>Total</b>	Lumens	4154.3	0.0	4154.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.7	0.4
10°-20°	92.6	2.2
20°-30°	227.4	5.5
30°-40°	380.5	9.2
40°-50°	481.4	11.6
50°-60°	747.2	18.0
60°-70°	1404.3	33.8
70°-80°	692.6	16.7
80°-90°	109.7	2.6
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°	4154.3	100.0
0°-180°	4154.3	100.0

**Coefficient of Utilization**



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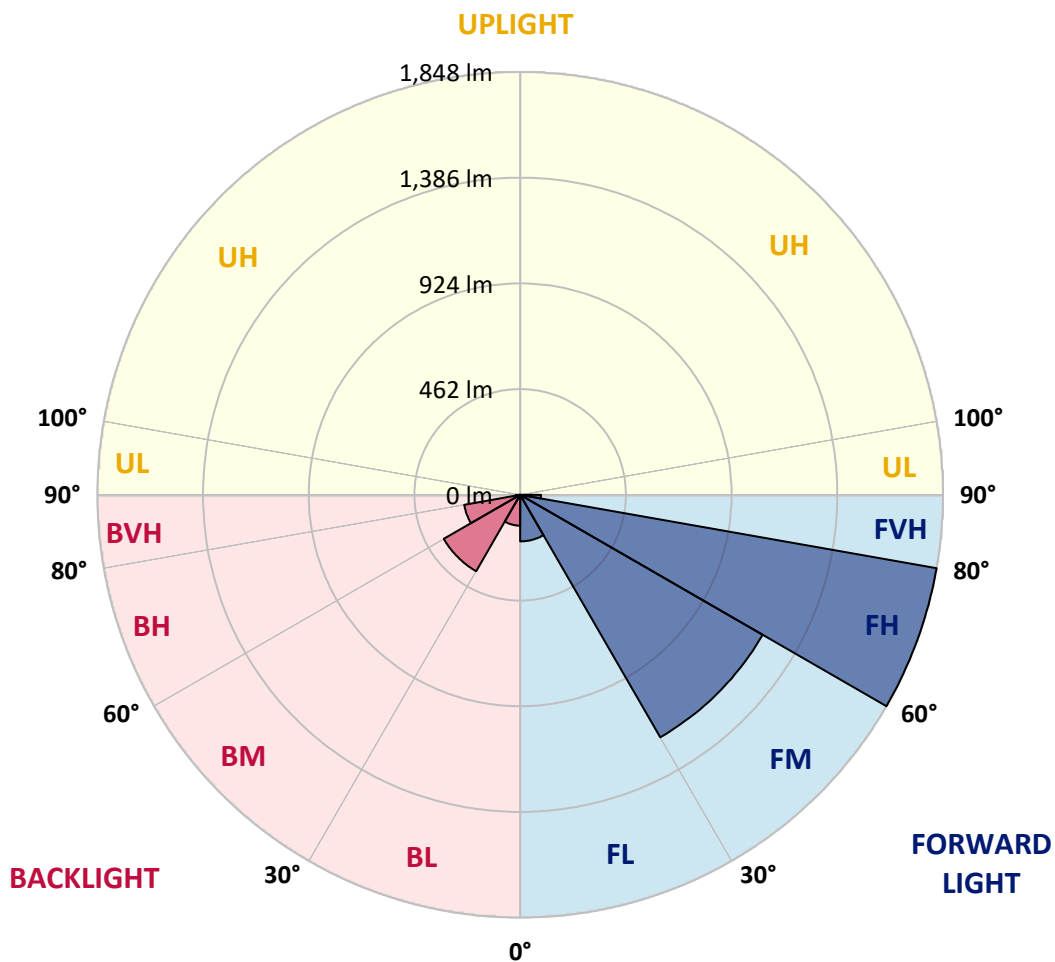
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	203.6	4.9			
FM	(30°-60°)	1223.8	29.5			
FH	(60°-80°)	1848.4	44.5			G2/5000
FVH	(80°-90°)	91.2	2.2			G1/100
BL	(0°-30°)	135.0	3.2	B1/500		
BM	(30°-60°)	385.3	9.3	B1/1000		
BH	(60°-80°)	248.4	6.0	B1/500		G1/500
BVH	(80°-90°)	18.5	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	0.3°	22.5°	25°	27.5°	30°	32.5°	35°	37.5°	40°	42.5°
0°	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5
2.5°	232.0	227.0	232.0	231.1	235.3	234.4	234.4	232.0	231.1	233.6	232.8
5°	194.8	195.6	191.5	187.4	189.9	189.9	189.9	188.2	187.4	190.7	193.2
7.5°	288.9	289.8	287.3	283.2	288.9	283.2	280.7	265.8	239.4	195.6	193.2
10°	292.2	291.4	285.6	282.3	283.2	283.2	281.5	279.0	268.3	269.1	274.1
12.5°	378.9	378.9	365.7	355.0	359.9	350.0	294.7	284.0	279.0	313.7	345.9
15°	404.5	383.9	371.5	355.0	360.8	364.9	421.0	425.1	434.2	414.4	411.1
17.5°	473.9	474.7	456.5	452.4	501.1	479.6	430.9	425.1	432.6	413.6	410.3
20°	559.7	558.1	501.9	577.9	516.0	512.7	500.3	495.3	515.1	525.0	470.5
22.5°	582.0	582.8	612.5	644.7	594.4	573.7	551.5	551.5	547.3	540.7	512.7
25°	714.9	716.6	634.8	676.1	620.8	645.6	634.8	612.5	595.2	584.5	572.1
27.5°	782.6	771.9	743.0	794.2	762.0	735.5	686.8	643.9	662.9	663.7	644.7
30°	894.0	893.2	870.9	869.3	806.5	774.3	784.2	757.0	739.7	753.7	697.6
32.5°	1066.6	1071.5	926.2	914.7	893.2	889.1	853.6	835.4	797.5	799.9	752.1
35°	1261.4	1263.1	1053.4	979.9	992.3	950.2	892.4	877.5	846.2	875.9	808.2
37.5°	1339.0	1337.4	1161.5	1051.7	1032.7	974.9	947.7	934.5	895.7	886.6	828.8
40°	1466.1	1467.0	1230.9	1083.9	1093.8	1020.3	997.2	954.3	900.6	904.8	837.9
42.5°	1508.2	1508.2	1251.5	1091.3	1113.6	1049.2	1002.2	956.0	908.9	900.6	847.0
45°	1525.6	1526.4	1241.6	1097.1	1088.9	1043.5	989.8	948.5	899.8	889.1	839.6
47.5°	1523.1	1522.3	1224.3	1095.5	1079.0	1024.5	989.8	944.4	889.9	875.9	830.5
50°	1504.9	1506.6	1219.3	1086.4	1091.3	1017.0	990.6	939.4	889.9	869.3	829.7
52.5°	1523.9	1528.0	1241.6	1090.5	1115.3	1043.5	999.7	949.4	903.1	874.2	838.7
55°	1944.1	1973.8	1373.7	1161.5	1211.0	1126.8	1054.2	1003.0	951.0	918.8	888.3
57.5°	2763.9	2766.3	1915.2	1467.8	1566.0	1424.0	1292.8	1249.0	1155.7	1113.6	1102.1
60°	3074.3	3085.0	2569.9	2108.4	2311.5	2091.1	1934.2	1850.0	1723.7	1600.7	1574.3
62.5°	3259.2	3266.6	2920.7	2536.0	2815.9	2671.4	2581.4	2570.7	2445.2	2341.2	2286.7
65°	3383.8	3384.7	3170.0	2813.4	3118.8	2990.1	3009.9	3114.7	3085.0	3068.5	2999.1
67.5°	3243.5	3249.3	3297.1	3032.2	3331.8	3250.9	3351.6	3470.5	3482.1	3491.1	3419.3
70°	2365.1	2378.3	3055.3	2943.0	3260.0	3255.9	3393.7	3571.2	3662.9	3694.2	3643.0
72.5°	1499.2	1487.6	2021.7	2162.0	2383.3	2584.7	2844.8	3126.3	3362.4	3420.1	3376.4
75°	1048.4	1045.1	1090.5	1113.6	1296.1	1346.4	1611.4	2030.0	2333.8	2501.3	2508.8
77.5°	665.4	665.4	657.9	621.6	643.1	622.4	635.7	728.1	899.0	1225.1	1292.8
80°	549.8	550.6	488.7	449.9	473.9	468.9	445.8	435.9	424.3	418.5	449.9
82.5°	370.7	364.9	414.4	381.4	393.8	388.8	379.7	369.0	352.5	322.0	294.7
85°	272.4	268.3	253.4	227.8	241.9	239.4	234.4	222.9	214.6	189.0	173.4
87.5°	204.7	203.1	184.9	148.6	156.8	146.9	132.9	118.9	109.0	93.3	81.7
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):**

	45°	47.5°	50°	52.5°	55°	67.5°	90°	112.5°	135°	157.5°	180°
0°	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5	144.5
2.5°	232.8	232.8	232.8	227.8	222.1	164.3	142.8	141.2	145.3	203.1	225.4
5°	190.7	187.4	186.6	186.6	188.2	222.1	139.5	142.8	201.4	141.2	140.3
7.5°	190.7	187.4	185.7	183.3	183.3	173.4	136.2	195.6	136.2	158.5	225.4
10°	274.1	265.8	264.2	267.5	260.9	250.1	199.0	208.0	189.9	224.5	225.4
12.5°	345.1	345.1	343.4	351.7	347.5	245.2	217.9	201.4	274.9	236.9	301.3
15°	371.5	344.2	350.0	348.4	340.9	355.8	269.1	254.3	260.9	275.7	290.6
17.5°	422.7	452.4	469.7	448.3	392.1	372.3	324.4	260.0	298.0	314.5	353.3
20°	454.9	450.7	463.1	444.1	420.2	427.6	388.8	378.1	324.4	312.0	324.4
22.5°	497.8	502.7	527.5	497.8	487.1	491.2	441.7	388.0	316.2	374.0	354.2
25°	552.3	570.4	583.6	568.8	528.3	580.3	493.7	459.0	342.6	331.9	359.9
27.5°	634.0	634.8	629.0	610.9	601.0	606.8	553.1	436.7	342.6	317.0	311.2
30°	680.2	687.7	713.3	670.3	656.3	659.6	560.5	472.2	345.9	277.4	293.1
32.5°	771.9	747.9	733.1	681.9	711.6	662.1	623.3	493.7	331.9	258.4	260.0
35°	790.9	784.2	792.5	719.9	723.2	719.9	604.3	502.7	307.1	226.2	205.6
37.5°	831.3	811.5	799.1	757.8	769.4	703.3	605.9	497.8	289.8	186.6	166.8
40°	837.9	840.4	832.1	764.4	776.0	683.5	592.7	488.7	270.8	151.1	153.5
42.5°	856.1	837.9	823.0	764.4	777.6	675.3	603.5	481.3	244.4	130.4	143.6
45°	848.6	831.3	814.8	762.8	770.2	676.9	615.0	474.7	217.1	122.2	143.6
47.5°	839.6	824.7	804.1	766.1	769.4	691.0	637.3	471.4	184.1	121.4	144.5
50°	842.0	825.5	805.7	776.8	776.0	702.5	660.4	488.7	148.6	122.2	142.8
52.5°	851.9	833.8	811.5	789.2	786.7	753.7	783.4	504.4	120.5	122.2	140.3
55°	912.2	891.6	880.0	886.6	884.1	979.9	1140.0	521.7	104.0	121.4	137.0
57.5°	1161.5	1147.5	1155.7	1205.3	1216.8	1374.5	1467.8	544.8	97.4	119.7	133.7
60°	1665.1	1676.6	1646.9	1692.3	1668.4	1660.1	1612.3	589.4	93.3	117.2	130.4
62.5°	2323.9	2285.1	2179.4	2170.3	2082.0	1821.1	1631.2	601.0	90.8	114.7	126.3
65°	3000.0	2845.6	2629.3	2546.7	2389.9	1902.8	1539.6	558.9	89.2	113.1	120.5
67.5°	3448.2	3246.8	2950.4	2776.2	2541.0	1820.3	1185.5	483.8	86.7	109.8	113.9
70°	3648.8	3392.1	3020.6	2739.9	2420.4	1386.9	627.4	397.1	82.6	104.8	110.6
72.5°	3365.7	3118.0	2668.9	2321.4	1883.0	860.2	319.5	284.0	76.8	96.6	109.8
75°	2400.6	2125.7	1663.4	1353.0	1016.2	390.5	180.8	134.6	68.5	87.5	108.1
77.5°	1201.1	963.4	673.6	533.3	418.5	202.3	80.1	66.9	59.4	77.6	90.8
80°	426.0	393.8	359.1	341.8	294.7	108.1	56.1	53.7	52.0	64.4	66.0
82.5°	281.5	262.5	241.1	226.2	181.6	75.1	43.8	46.2	42.9	52.8	45.4
85°	161.8	153.5	137.0	120.5	98.2	57.0	37.1	39.6	29.7	40.5	28.9
87.5°	75.9	71.8	67.7	62.7	56.1	41.3	20.6	37.1	19.0	25.6	14.9
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)