

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: P156984

Luminaire Tested: **UTLD-F02-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156984  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33666)  
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-5XQ-7030  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4287.3 lumens  
Efficiency: N/A  
Efficacy: 78.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

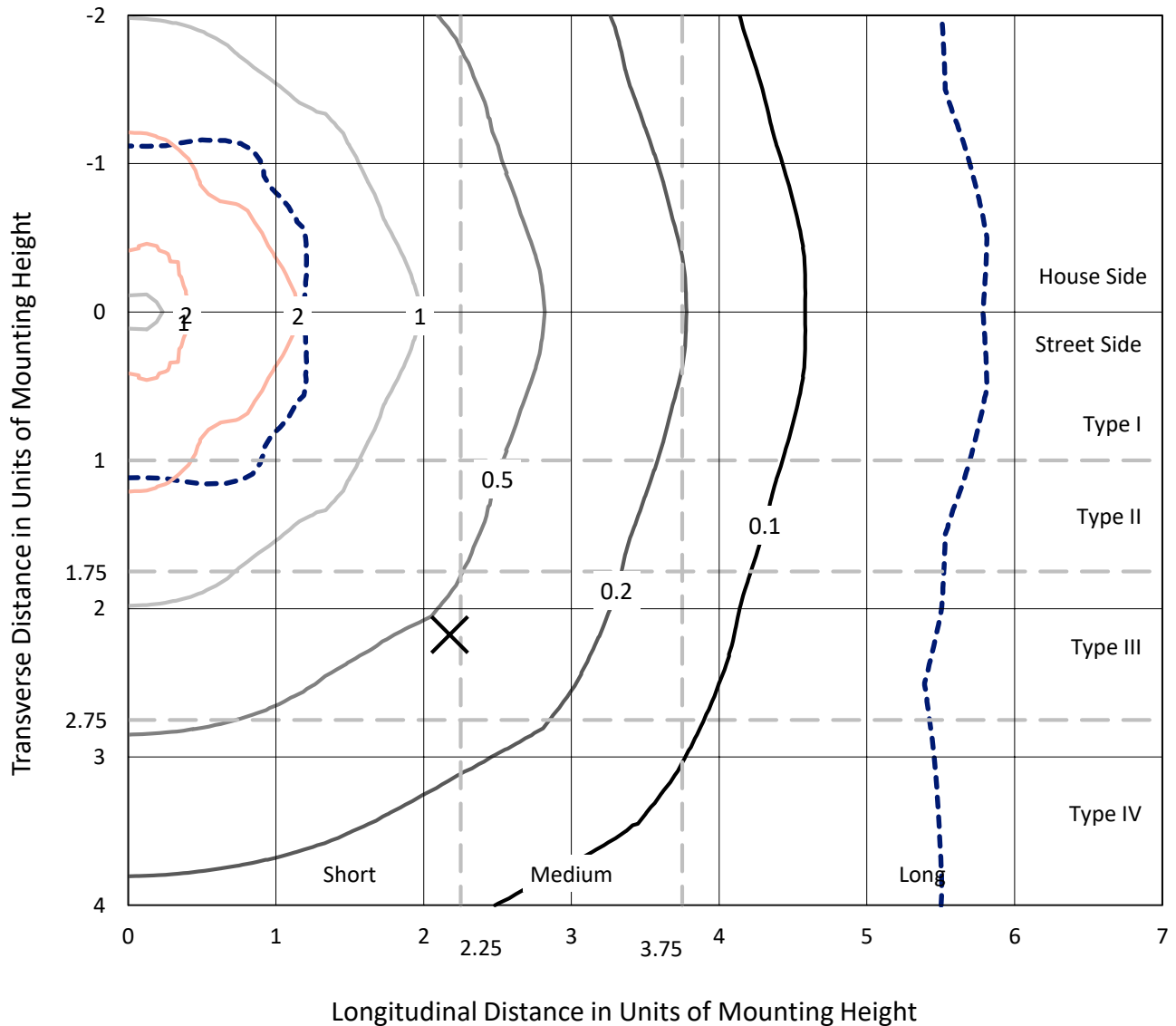
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

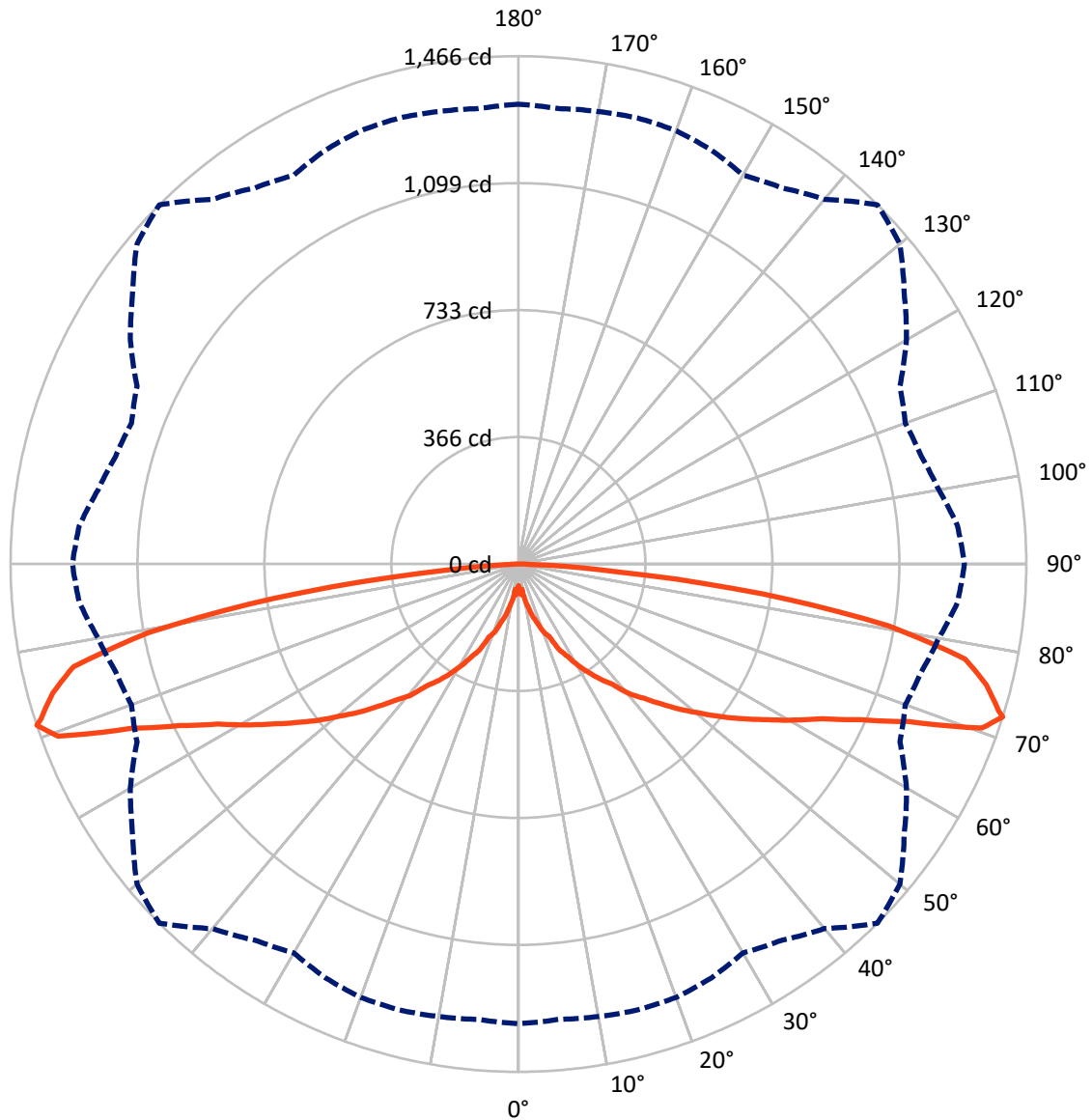
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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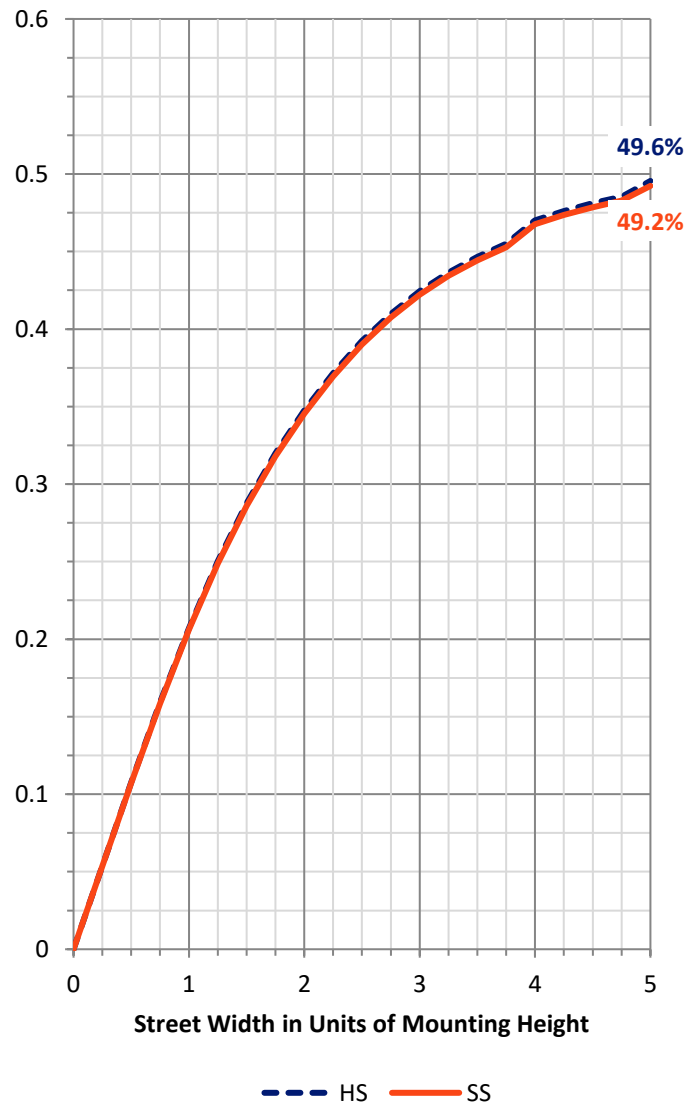
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2143.6	0.0	2143.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2143.6	0.0	2143.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	4287.3	0.0	4287.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.4	0.2
10°-20°	45.6	1.1
20°-30°	135.3	3.2
30°-40°	274.8	6.4
40°-50°	468.7	10.9
50°-60°	727.2	17.0
60°-70°	1090.3	25.4
70°-80°	1261.1	29.4
80°-90°	275.9	6.4
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°	4287.3	100.0
0°-180°	4287.3	100.0



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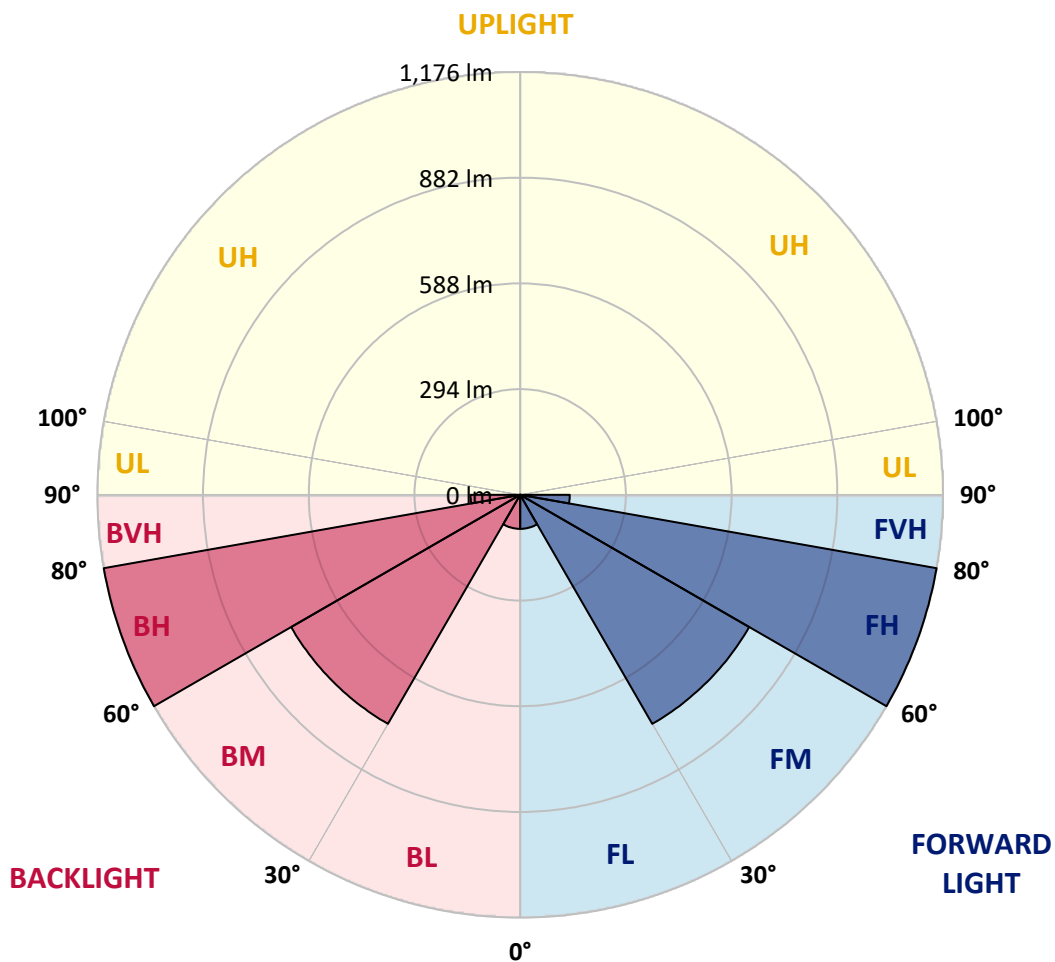
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	94.6	2.2			
FM (30°-60°)	735.3	17.2			
FH (60°-80°)	1175.7	27.4			G1/1800
FVH (80°-90°)	138.0	3.2			G2/225
BL (0°-30°)	94.6	2.2	B0/110		
BM (30°-60°)	735.3	17.2	B1/1000		
BH (60°-80°)	1175.7	27.4	B3/2500		G1/1800
BVH (80°-90°)	138.0	3.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	98.8	97.3	98.0	97.3	97.3	96.5	86.7	83.7	83.7	84.4	82.9
5°	73.1	73.9	73.1	75.4	76.9	73.9	73.9	75.4	76.2	89.0	90.5
7.5°	113.1	113.9	113.1	112.3	104.1	95.8	94.2	92.0	75.4	73.9	72.4
10°	117.6	117.6	119.1	116.1	115.4	115.4	114.6	113.9	109.3	107.1	91.2
12.5°	156.8	158.3	157.6	156.1	155.3	136.5	133.5	119.1	113.9	129.7	143.3
15°	163.6	162.9	164.4	161.4	159.8	159.8	153.1	159.1	170.4	157.6	147.8
17.5°	202.8	202.8	202.8	201.3	196.0	181.0	182.5	185.5	184.7	179.5	185.5
20°	227.0	227.0	225.4	211.1	201.3	210.4	223.2	216.4	207.3	210.4	215.6
22.5°	249.6	250.3	248.8	244.3	243.5	251.1	239.8	233.0	248.1	227.0	237.5
25°	294.1	294.8	292.5	271.4	268.4	268.4	266.9	270.7	260.9	273.7	291.8
27.5°	318.2	304.6	302.4	296.3	309.1	303.9	301.6	285.0	318.9	301.6	313.7
30°	354.4	354.4	351.4	347.6	345.3	329.5	323.5	334.0	335.5	339.3	371.0
32.5°	408.7	410.2	401.9	381.5	367.9	364.9	369.5	367.9	371.7	374.0	400.4
35°	453.2	453.9	438.8	425.3	415.5	405.6	403.4	398.1	407.9	408.7	429.0
37.5°	500.7	505.2	490.8	484.1	468.2	453.2	435.8	433.5	444.1	440.3	472.8
40°	571.5	573.8	561.0	545.9	512.7	495.4	475.8	473.5	474.3	491.6	507.4
42.5°	615.3	616.0	604.7	586.6	567.0	546.6	519.5	509.7	514.2	529.3	543.6
45°	664.3	663.5	653.7	639.4	619.0	592.6	560.2	551.9	556.4	575.3	588.1
47.5°	714.8	713.3	706.5	689.9	665.0	636.4	603.9	600.9	600.9	625.8	636.4
50°	763.8	764.5	757.8	741.9	711.8	683.9	658.2	646.2	649.9	675.6	687.6
52.5°	818.8	820.3	810.5	794.0	761.5	740.4	714.8	696.7	696.7	732.1	742.7
55°	876.1	876.9	870.9	849.8	824.9	800.0	769.8	748.0	748.7	787.9	797.0
57.5°	935.0	933.4	926.7	910.8	894.2	854.3	821.9	802.2	807.5	847.5	854.3
60°	996.8	996.0	989.2	974.2	949.3	900.3	881.4	869.4	864.8	914.6	915.3
62.5°	1067.7	1064.6	1059.4	1045.8	1011.9	967.4	947.0	941.0	931.9	983.2	985.5
65°	1155.1	1149.8	1146.1	1131.0	1097.1	1045.0	1018.6	1025.4	1019.4	1082.7	1074.4
67.5°	1290.1	1280.3	1268.2	1254.6	1216.9	1169.4	1133.3	1148.3	1144.6	1213.9	1210.9
70°	1399.4	1393.4	1392.6	1391.1	1373.0	1342.9	1302.9	1315.7	1331.6	1419.0	1410.0
72°	1327.0	1319.5	1326.3	1332.3	1330.8	1318.0	1296.1	1325.5	1373.8	1465.8	1437.1
72.5°	1309.7	1302.1	1306.7	1311.9	1311.9	1299.9	1280.3	1308.2	1359.5	1449.2	1422.0
75°	1229.0	1226.7	1230.5	1237.3	1244.8	1238.8	1235.8	1253.1	1306.7	1394.9	1361.0
77.5°	1096.3	1099.3	1103.8	1113.6	1128.0	1134.8	1152.1	1179.2	1239.6	1318.0	1290.1
80°	836.9	832.4	843.7	864.1	879.2	894.2	917.6	950.8	1014.1	1085.0	1042.0
82.5°	279.7	312.9	331.0	370.2	421.5	456.9	507.4	573.8	651.5	710.3	656.7
85°	24.1	28.7	40.0	55.0	70.9	94.2	142.5	178.7	236.0	288.8	244.3
87.5°	6.0	9.8	17.3	24.1	24.9	25.6	28.7	30.9	33.9	34.7	43.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	61.8	61.8	61.8	61.8	61.8	61.8	61.8	61.8
2.5°	81.4	77.7	70.9	64.1	63.3	62.6	61.8	61.1
5°	91.2	96.5	83.7	82.2	79.2	64.8	62.6	61.1
7.5°	73.1	73.9	86.0	86.0	77.7	75.4	62.6	61.1
10°	81.4	79.2	97.3	113.9	118.4	110.1	92.0	90.5
12.5°	138.7	120.6	104.1	105.6	118.4	114.6	102.5	89.7
15°	147.0	141.8	144.0	143.3	141.8	151.6	136.5	133.5
17.5°	181.0	175.7	174.2	155.3	147.0	147.8	151.6	141.8
20°	194.5	195.3	235.2	236.0	220.9	218.7	217.9	215.6
22.5°	263.1	261.6	253.3	250.3	235.2	279.0	285.0	285.0
25°	276.0	297.8	328.7	328.0	319.7	306.9	309.1	294.8
27.5°	343.8	343.8	343.1	350.6	361.9	355.1	350.6	343.8
30°	358.1	381.5	387.6	376.2	381.5	389.1	397.4	404.9
32.5°	399.6	395.8	417.7	427.5	435.8	441.8	422.2	429.8
35°	432.8	446.4	450.1	450.1	456.2	459.9	447.1	447.1
37.5°	470.5	476.5	473.5	478.0	480.3	488.6	487.1	483.3
40°	502.2	508.2	506.7	509.7	508.9	523.3	527.8	512.0
42.5°	542.1	545.9	543.6	545.1	554.9	561.7	576.1	566.2
45°	582.1	585.9	583.6	585.9	602.4	605.5	625.1	623.6
47.5°	628.1	628.8	628.8	636.4	650.7	653.0	674.8	674.1
50°	677.1	680.9	674.1	683.9	699.7	709.5	727.6	737.4
52.5°	732.1	735.1	717.8	741.9	754.7	769.8	778.9	794.7
55°	781.9	786.4	768.3	792.4	804.5	818.8	841.5	855.8
57.5°	834.7	831.7	831.7	837.7	849.0	868.6	898.0	924.4
60°	895.0	884.4	882.9	882.9	904.8	938.7	962.1	989.2
62.5°	965.1	947.8	950.8	940.2	965.9	1007.3	1035.2	1069.2
65°	1048.8	1028.4	1023.9	1018.6	1037.5	1083.5	1126.5	1152.1
67.5°	1173.2	1143.1	1126.5	1121.2	1143.1	1186.8	1241.1	1268.2
70°	1357.9	1305.2	1248.6	1235.8	1236.5	1279.5	1324.0	1348.9
72°	1359.5	1293.1	1214.7	1188.3	1203.4	1232.0	1272.0	1287.1
72.5°	1339.1	1275.8	1193.6	1174.0	1196.6	1218.5	1262.2	1273.5
75°	1293.1	1229.8	1147.6	1134.8	1143.8	1158.1	1199.6	1203.4
77.5°	1216.9	1146.1	1046.5	1021.7	999.8	1030.0	1060.9	1051.1
80°	976.4	895.7	801.5	782.6	744.9	765.3	783.4	769.1
82.5°	573.8	478.0	395.1	348.3	288.8	274.5	280.5	235.2
85°	182.5	122.1	86.0	58.1	51.3	40.0	33.2	28.7
87.5°	40.0	33.2	30.2	27.9	27.9	23.4	16.6	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)