

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: P156985

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156985
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4694 lumens
Efficiency: N/A
Efficacy: 85.3 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

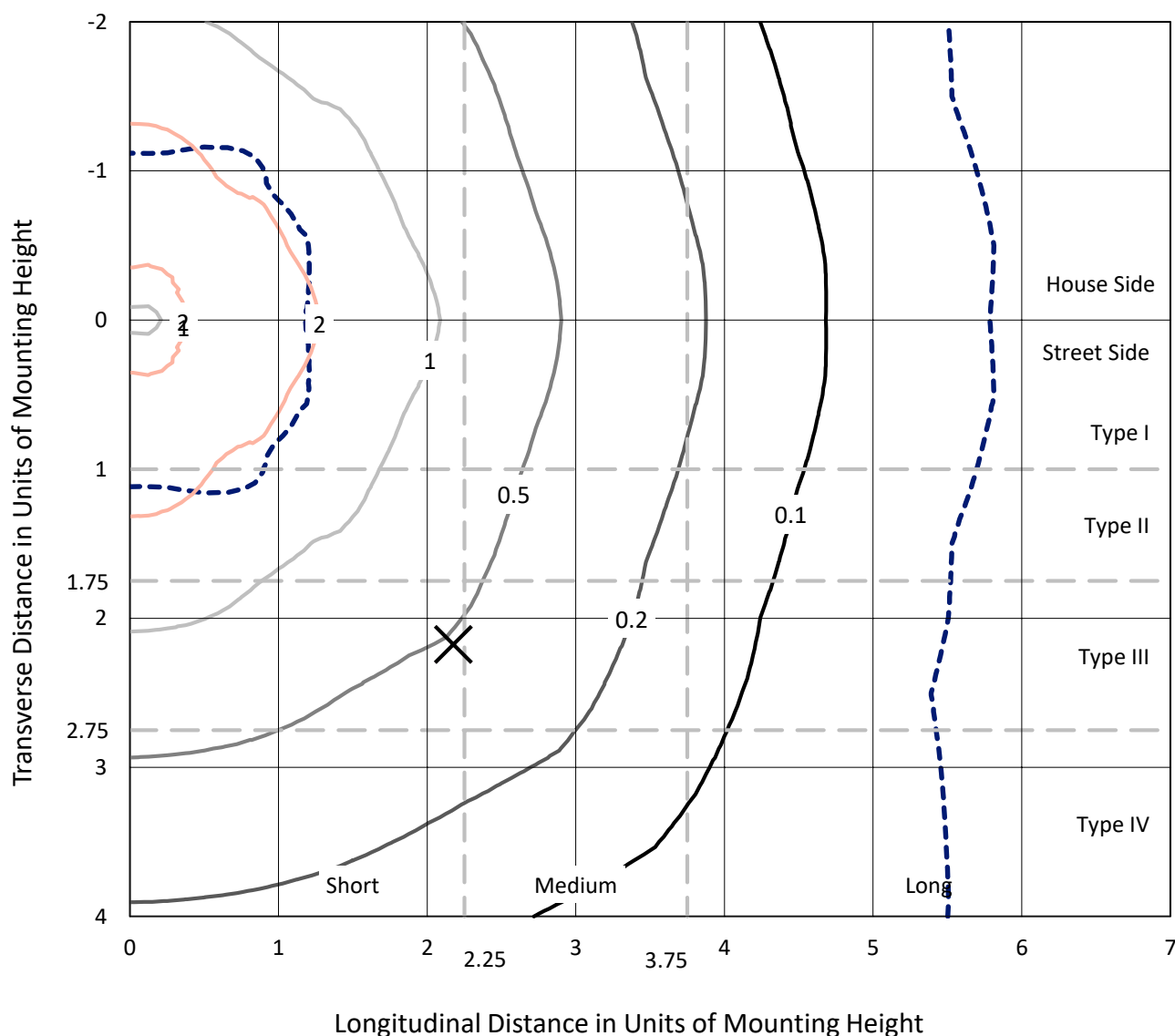


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

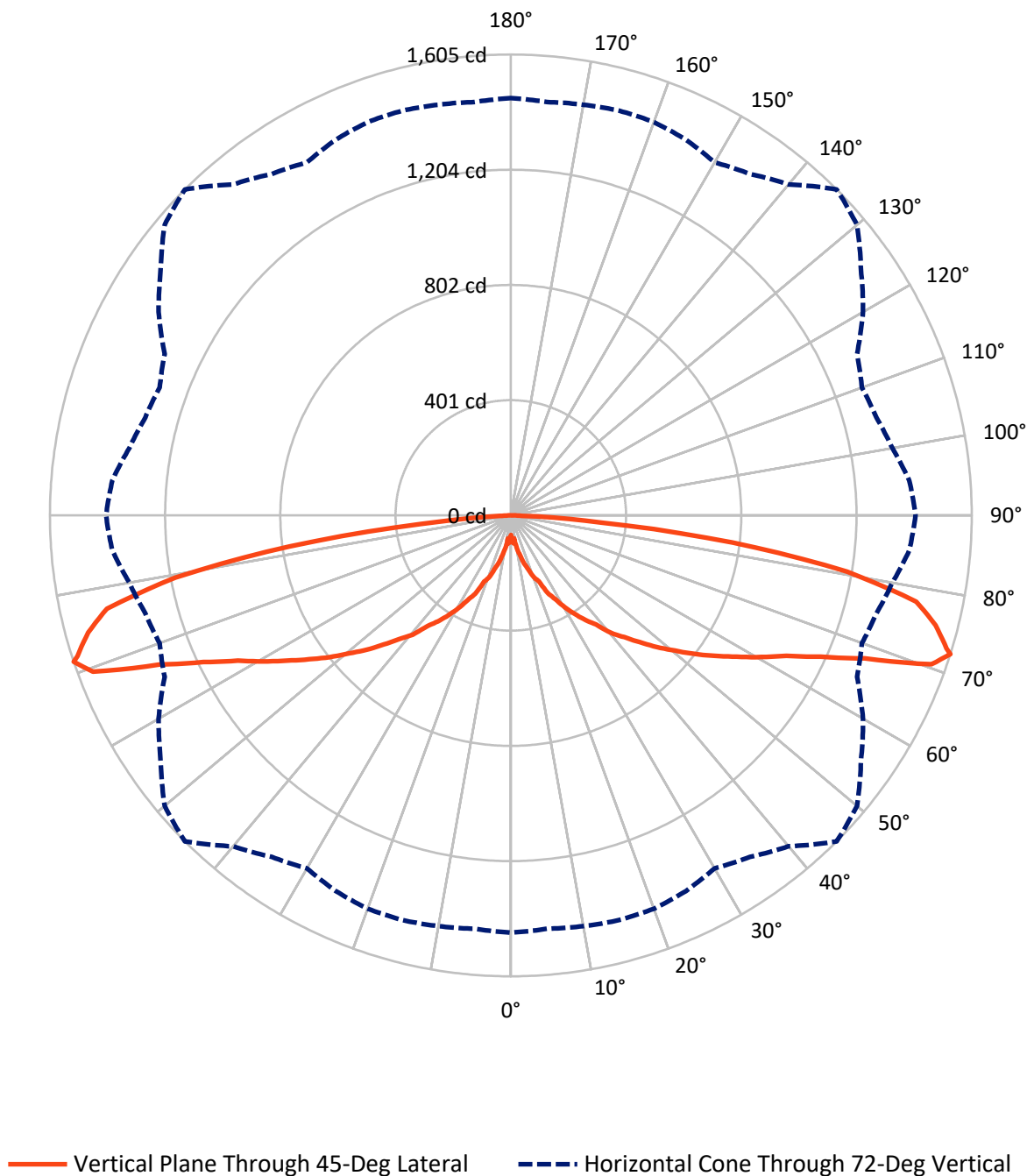


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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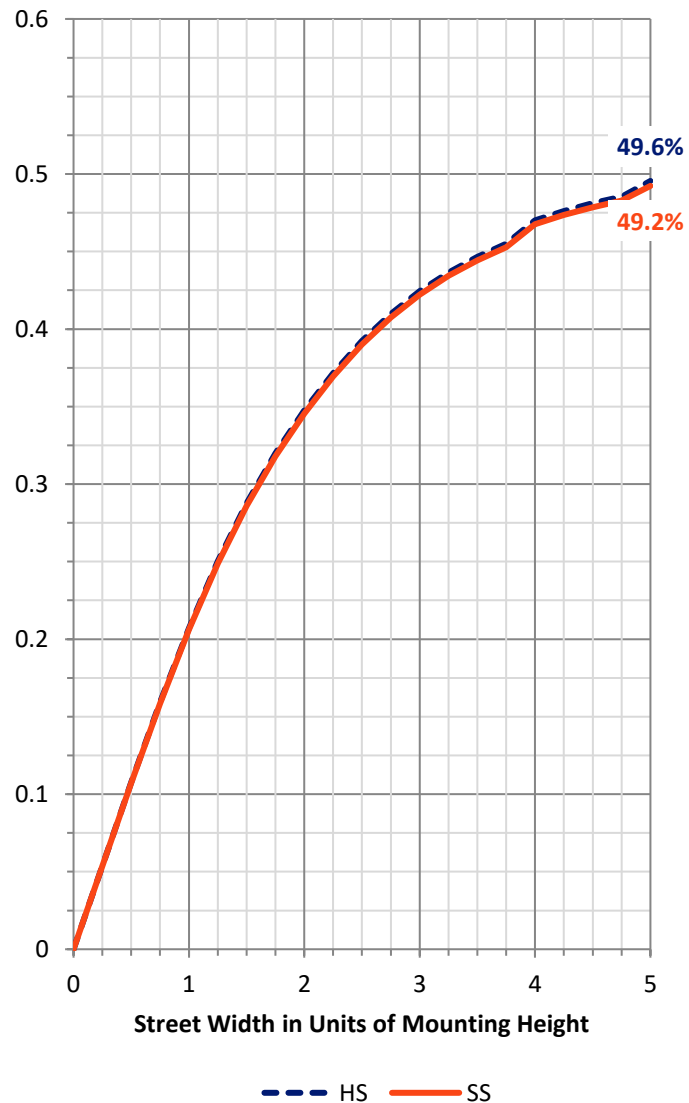
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2347.0	0.0	2347.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2347.0	0.0	2347.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	4694.0	0.0	4694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.2	0.2
10°-20°	49.9	1.1
20°-30°	148.1	3.2
30°-40°	300.9	6.4
40°-50°	513.2	10.9
50°-60°	796.1	17.0
60°-70°	1193.7	25.4
70°-80°	1380.8	29.4
80°-90°	302.1	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°	4694.0	100.0
0°-180°	4694.0	100.0

Coefficient of Utilization



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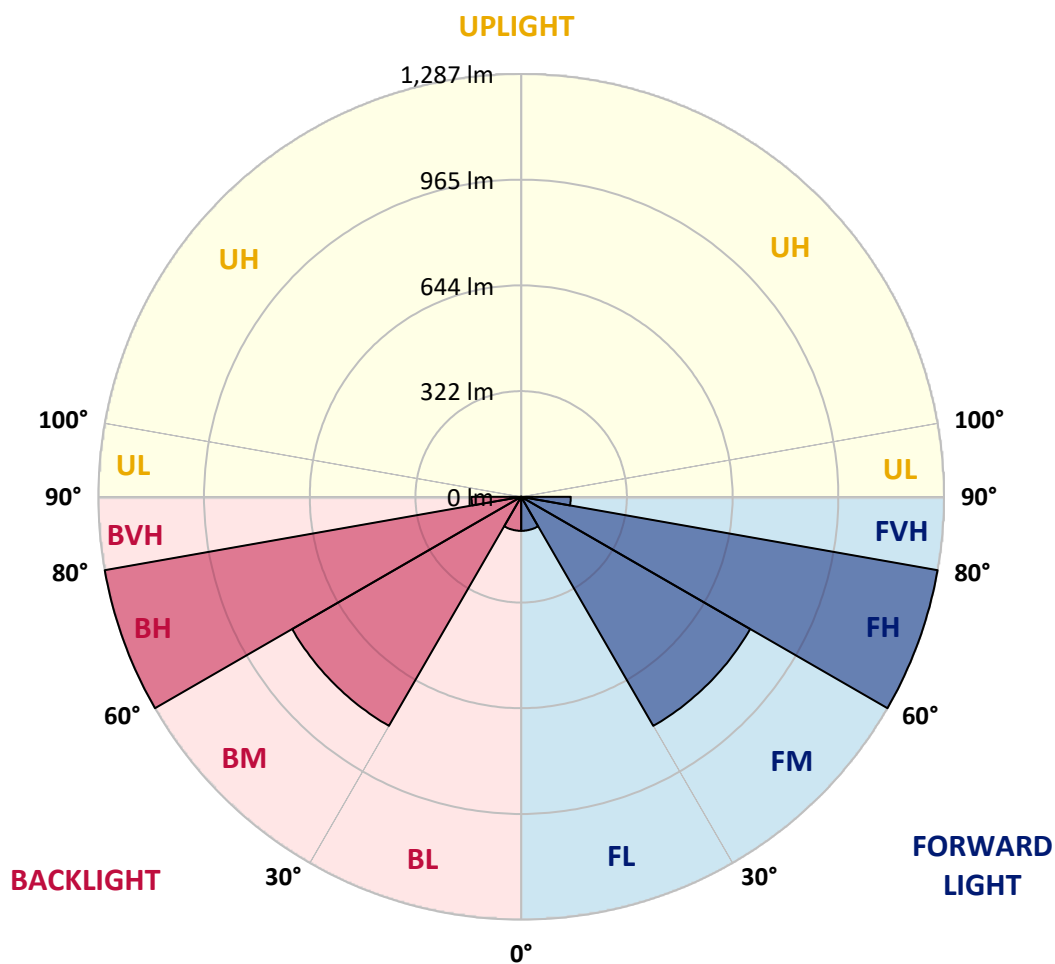
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.6	2.2			
FM	(30°-60°)	805.1	17.2			
FH	(60°-80°)	1287.3	27.4			G1/1800
FVH	(80°-90°)	151.0	3.2			G2/225
BL	(0°-30°)	103.6	2.2	B0/110		
BM	(30°-60°)	805.1	17.2	B1/1000		
BH	(60°-80°)	1287.3	27.4	B3/2500		G1/1800
BVH	(80°-90°)	151.0	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°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	108.1	106.5	107.3	106.5	106.5	105.7	94.9	91.6	91.6	92.5	90.8
5°	80.1	80.9	80.1	82.6	84.2	80.9	80.9	82.6	83.4	97.4	99.1
7.5°	123.8	124.7	123.8	123.0	113.9	104.8	103.2	100.7	82.6	80.9	79.3
10°	128.8	128.8	130.4	127.1	126.3	126.3	125.5	124.7	119.7	117.2	99.9
12.5°	171.7	173.4	172.5	170.9	170.1	149.4	146.1	130.4	124.7	142.0	156.8
15°	179.1	178.3	180.0	176.7	175.0	175.0	167.6	174.2	186.6	172.5	161.8
17.5°	222.1	222.1	222.1	220.4	214.6	198.1	199.8	203.1	202.3	196.5	203.1
20°	248.5	248.5	246.8	231.1	220.4	230.3	244.4	236.9	227.0	230.3	236.1
22.5°	273.2	274.1	272.4	267.5	266.6	274.9	262.5	255.1	271.6	248.5	260.0
25°	322.0	322.8	320.3	297.2	293.9	293.9	292.2	296.4	285.6	299.7	319.5
27.5°	348.4	333.5	331.0	324.4	338.5	332.7	330.2	312.0	349.2	330.2	343.4
30°	388.0	388.0	384.7	380.6	378.1	360.8	354.2	365.7	367.4	371.5	406.2
32.5°	447.4	449.1	440.0	417.7	402.9	399.6	404.5	402.9	407.0	409.5	438.4
35°	496.1	497.0	480.5	465.6	454.9	444.1	441.7	435.9	446.6	447.4	469.7
37.5°	548.1	553.1	537.4	530.0	512.7	496.1	477.2	474.7	486.2	482.1	517.6
40°	625.7	628.2	614.2	597.7	561.4	542.4	520.9	518.4	519.3	538.2	555.6
42.5°	673.6	674.5	662.1	642.3	620.8	598.5	568.8	558.1	563.0	579.5	595.2
45°	727.3	726.5	715.7	700.0	677.8	648.9	613.4	604.3	609.2	629.9	643.9
47.5°	782.6	780.9	773.5	755.4	728.1	696.7	661.2	657.9	657.9	685.2	696.7
50°	836.3	837.1	829.7	812.3	779.3	748.8	720.7	707.5	711.6	739.7	752.9
52.5°	896.5	898.2	887.4	869.3	833.8	810.7	782.6	762.8	762.8	801.6	813.1
55°	959.3	960.1	953.5	930.4	903.1	875.9	842.9	818.9	819.7	862.7	872.6
57.5°	1023.7	1022.0	1014.6	997.2	979.1	935.3	899.8	878.4	884.1	927.9	935.3
60°	1091.3	1090.5	1083.1	1066.6	1039.3	985.7	965.0	951.8	946.9	1001.4	1002.2
62.5°	1168.9	1165.6	1159.9	1145.0	1107.9	1059.1	1036.9	1030.3	1020.3	1076.5	1079.0
65°	1264.7	1258.9	1254.8	1238.3	1201.1	1144.2	1115.3	1122.7	1116.1	1185.5	1176.4
67.5°	1412.5	1401.7	1388.5	1373.7	1332.4	1280.4	1240.8	1257.3	1253.1	1329.1	1325.8
70°	1532.2	1525.6	1524.7	1523.1	1503.3	1470.3	1426.5	1440.5	1457.9	1553.6	1543.7
72°	1452.9	1444.7	1452.1	1458.7	1457.1	1443.0	1419.1	1451.3	1504.1	1604.8	1573.5
72.5°	1433.9	1425.7	1430.6	1436.4	1436.4	1423.2	1401.7	1432.3	1488.4	1586.7	1556.9
75°	1345.6	1343.1	1347.3	1354.7	1362.9	1356.3	1353.0	1372.0	1430.6	1527.2	1490.1
77.5°	1200.3	1203.6	1208.6	1219.3	1235.0	1242.4	1261.4	1291.1	1357.2	1443.0	1412.5
80°	916.3	911.4	923.8	946.1	962.6	979.1	1004.7	1041.0	1110.3	1187.9	1140.9
82.5°	306.3	342.6	362.4	405.3	461.5	500.3	555.6	628.2	713.3	777.6	719.0
85°	26.4	31.4	43.8	60.3	77.6	103.2	156.0	195.6	258.4	316.2	267.5
87.5°	6.6	10.7	19.0	26.4	27.2	28.1	31.4	33.8	37.1	38.0	47.1
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°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	89.2	85.0	77.6	70.2	69.3	68.5	67.7	66.9
5°	99.9	105.7	91.6	90.0	86.7	71.0	68.5	66.9
7.5°	80.1	80.9	94.1	94.1	85.0	82.6	68.5	66.9
10°	89.2	86.7	106.5	124.7	129.6	120.5	100.7	99.1
12.5°	151.9	132.1	113.9	115.6	129.6	125.5	112.3	98.2
15°	161.0	155.2	157.7	156.8	155.2	165.9	149.4	146.1
17.5°	198.1	192.3	190.7	170.1	161.0	161.8	165.9	155.2
20°	213.0	213.8	257.6	258.4	241.9	239.4	238.6	236.1
22.5°	288.1	286.5	277.4	274.1	257.6	305.4	312.0	312.0
25°	302.1	326.1	359.9	359.1	350.0	336.0	338.5	322.8
27.5°	376.4	376.4	375.6	383.9	396.3	388.8	383.9	376.4
30°	392.1	417.7	424.3	411.9	417.7	426.0	435.1	443.3
32.5°	437.5	433.4	457.3	468.1	477.2	483.8	462.3	470.5
35°	473.9	488.7	492.8	492.8	499.4	503.6	489.5	489.5
37.5°	515.1	521.7	518.4	523.4	525.9	534.9	533.3	529.2
40°	549.8	556.4	554.8	558.1	557.2	572.9	577.9	560.5
42.5°	593.6	597.7	595.2	596.9	607.6	615.0	630.7	620.0
45°	637.3	641.4	639.0	641.4	659.6	662.9	684.4	682.7
47.5°	687.7	688.5	688.5	696.7	712.4	714.9	738.8	738.0
50°	741.3	745.4	738.0	748.8	766.1	776.8	796.6	807.4
52.5°	801.6	804.9	785.9	812.3	826.4	842.9	852.8	870.1
55°	856.1	861.0	841.2	867.6	880.8	896.5	921.3	937.0
57.5°	913.9	910.6	910.6	917.2	929.5	951.0	983.2	1012.1
60°	979.9	968.3	966.7	966.7	990.6	1027.8	1053.4	1083.1
62.5°	1056.7	1037.7	1041.0	1029.4	1057.5	1102.9	1133.4	1170.6
65°	1148.3	1126.0	1121.1	1115.3	1135.9	1186.3	1233.3	1261.4
67.5°	1284.5	1251.5	1233.3	1227.6	1251.5	1299.4	1358.8	1388.5
70°	1486.8	1429.0	1367.1	1353.0	1353.9	1400.9	1449.6	1476.9
72°	1488.4	1415.8	1329.9	1301.0	1317.5	1348.9	1392.7	1409.2
72.5°	1466.1	1396.8	1306.8	1285.3	1310.1	1334.0	1381.9	1394.3
75°	1415.8	1346.4	1256.4	1242.4	1252.3	1268.0	1313.4	1317.5
77.5°	1332.4	1254.8	1145.8	1118.6	1094.6	1127.7	1161.5	1150.8
80°	1069.1	980.7	877.5	856.9	815.6	837.9	857.7	842.0
82.5°	628.2	523.4	432.6	381.4	316.2	300.5	307.1	257.6
85°	199.8	133.7	94.1	63.6	56.1	43.8	36.3	31.4
87.5°	43.8	36.3	33.0	30.5	30.5	25.6	18.2	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)