

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: P156986

Luminaire Tested: **UTLD-F02-LED-E-U-5XQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156986
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-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4816.5 lumens
Efficiency: N/A
Efficacy: 87.6 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

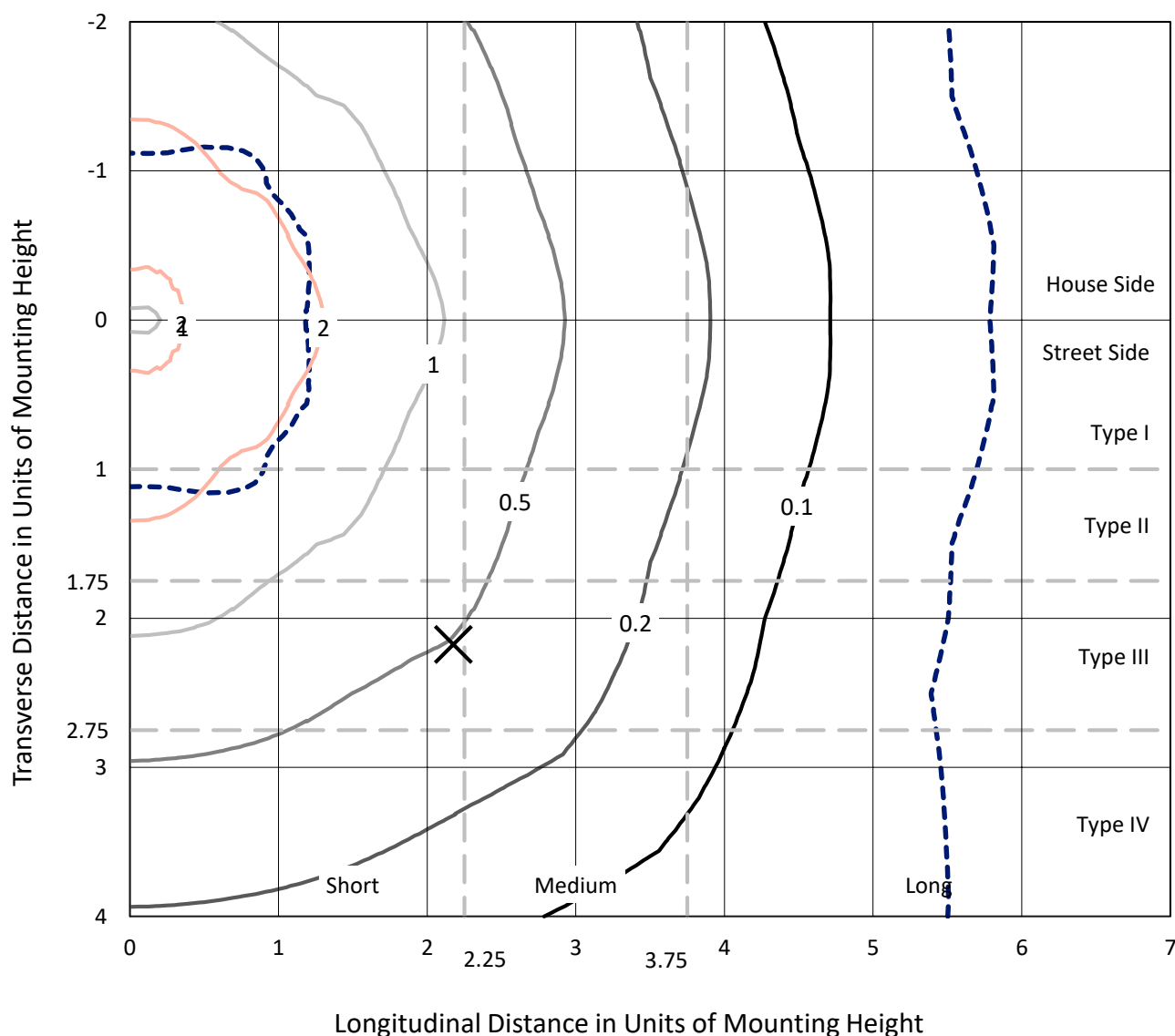


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

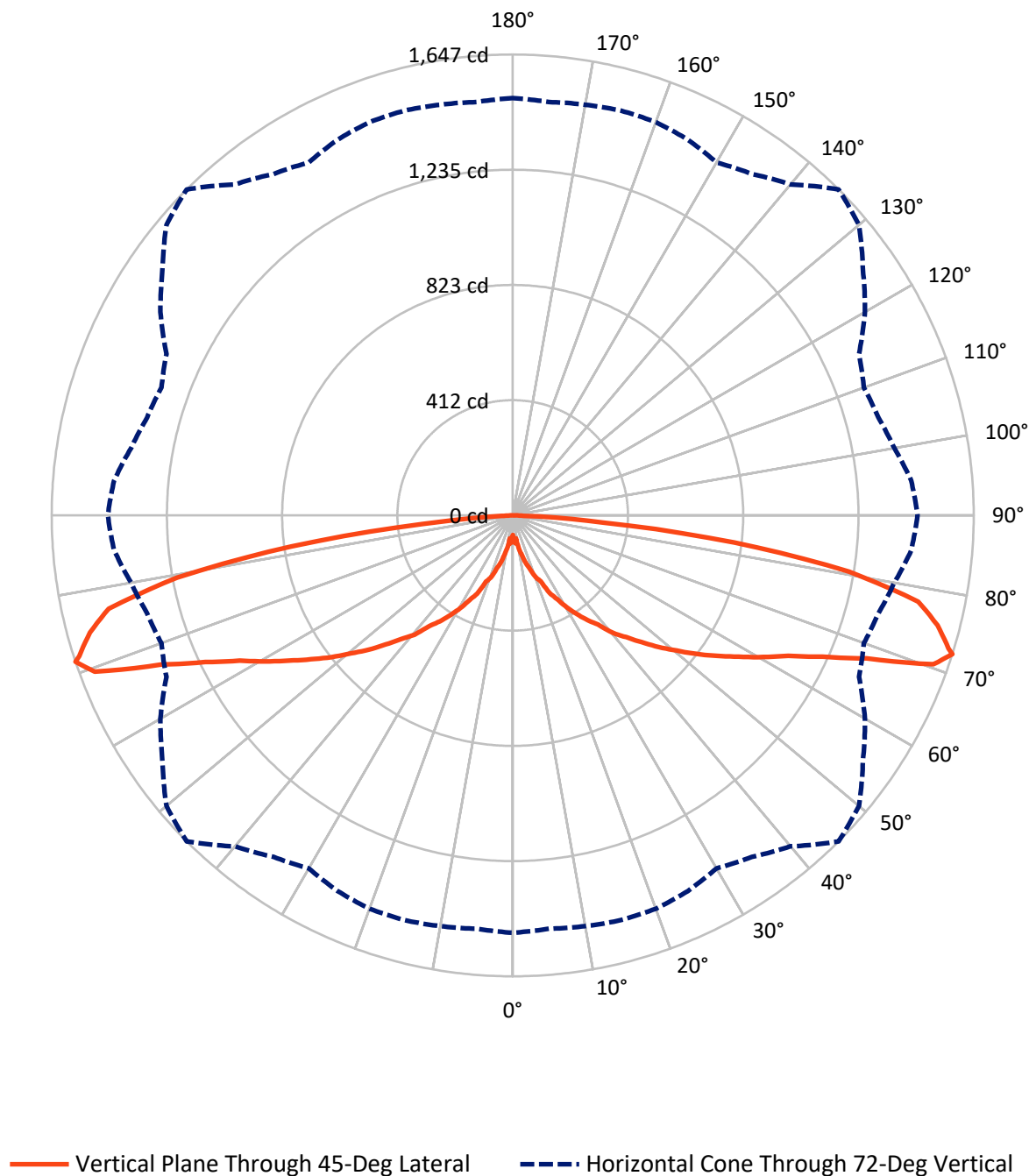


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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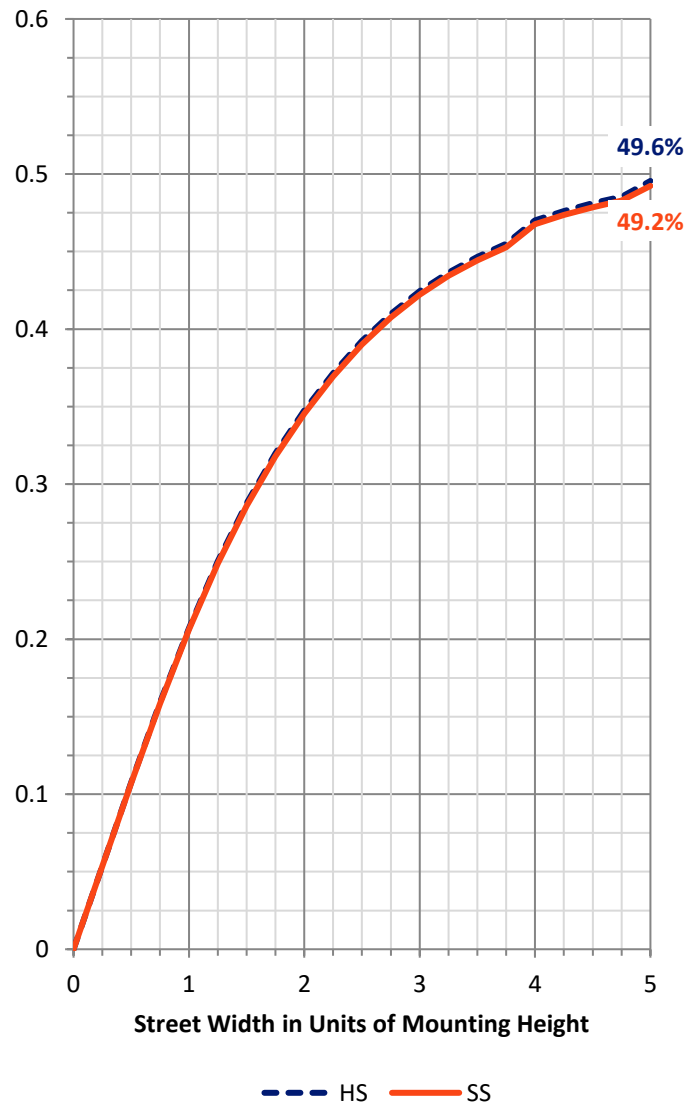
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2408.3	0.0	2408.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2408.3	0.0	2408.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	4816.5	0.0	4816.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.4	0.2
10°-20°	51.2	1.1
20°-30°	152.0	3.2
30°-40°	308.7	6.4
40°-50°	526.6	10.9
50°-60°	816.9	17.0
60°-70°	1224.9	25.4
70°-80°	1416.8	29.4
80°-90°	310.0	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°	4816.5	100.0
0°-180°	4816.5	100.0

Coefficient of Utilization



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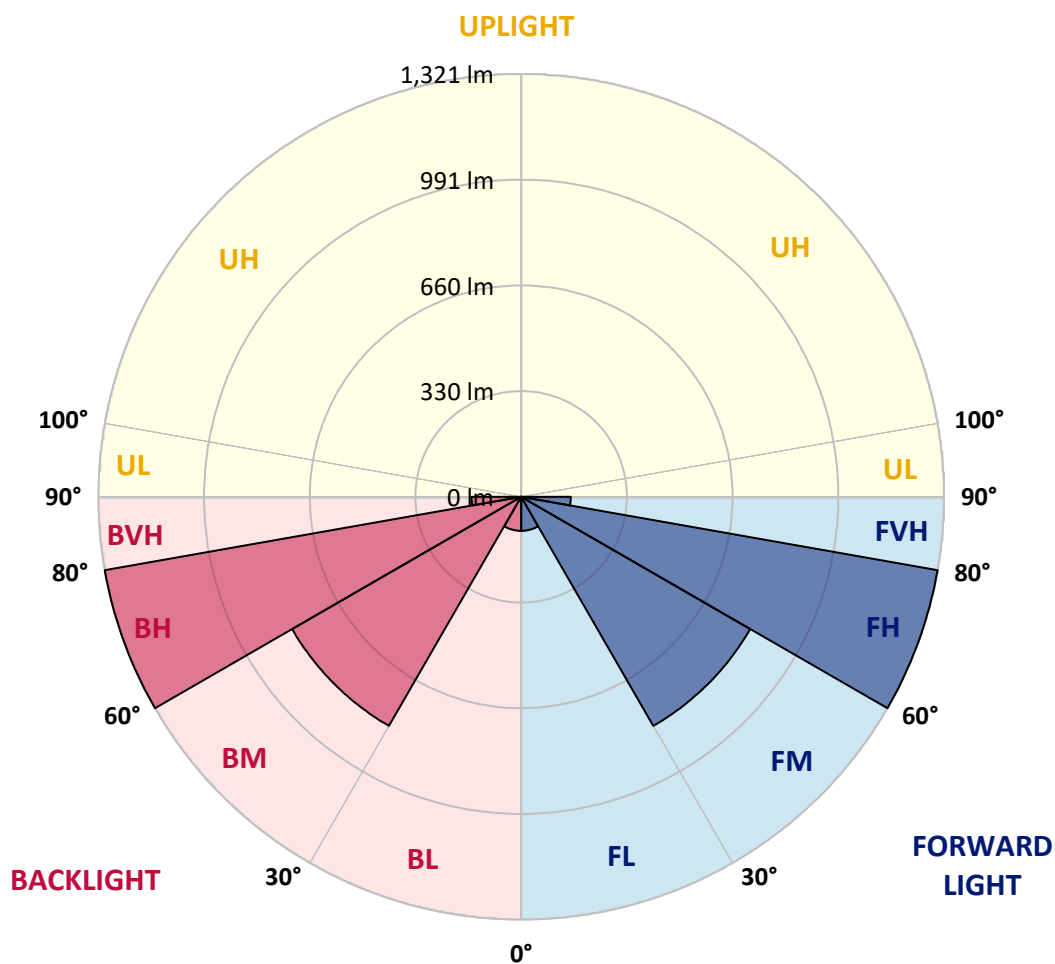
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	106.3	2.2			
FM	(30°-60°)	826.1	17.2			
FH	(60°-80°)	1320.9	27.4			G1/1800
FVH	(80°-90°)	155.0	3.2			G2/225
BL	(0°-30°)	106.3	2.2	B0/110		
BM	(30°-60°)	826.1	17.2	B1/1000		
BH	(60°-80°)	1320.9	27.4	B3/2500		G1/1800
BVH	(80°-90°)	155.0	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°	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
2.5°	111.0	109.3	110.1	109.3	109.3	108.4	97.4	94.0	94.0	94.9	93.2
5°	82.2	83.0	82.2	84.7	86.4	83.0	83.0	84.7	85.6	100.0	101.6
7.5°	127.1	127.9	127.1	126.2	116.9	107.6	105.9	103.3	84.7	83.0	81.3
10°	132.1	132.1	133.8	130.4	129.6	129.6	128.8	127.9	122.8	120.3	102.5
12.5°	176.2	177.9	177.0	175.3	174.5	153.3	149.9	133.8	127.9	145.7	160.9
15°	183.8	183.0	184.7	181.3	179.6	179.6	172.0	178.7	191.4	177.0	166.0
17.5°	227.9	227.9	227.9	226.2	220.2	203.3	205.0	208.4	207.5	201.6	208.4
20°	255.0	255.0	253.3	237.2	226.2	236.3	250.7	243.1	232.9	236.3	242.3
22.5°	280.4	281.2	279.5	274.5	273.6	282.1	269.4	261.7	278.7	255.0	266.8
25°	330.4	331.2	328.7	304.9	301.6	301.6	299.9	304.1	293.1	307.5	327.8
27.5°	357.5	342.2	339.7	332.9	347.3	341.4	338.8	320.2	358.3	338.8	352.4
30°	398.1	398.1	394.7	390.5	388.0	370.2	363.4	375.3	376.9	381.2	416.8
32.5°	459.1	460.8	451.5	428.6	413.4	410.0	415.1	413.4	417.6	420.1	449.8
35°	509.1	509.9	493.0	477.8	466.7	455.7	453.2	447.3	458.3	459.1	482.0
37.5°	562.5	567.5	551.4	543.8	526.0	509.1	489.6	487.1	498.9	494.7	531.1
40°	642.1	644.6	630.2	613.3	576.0	556.5	534.5	532.0	532.8	552.3	570.1
42.5°	691.2	692.1	679.4	659.0	637.0	614.1	583.6	572.6	577.7	594.6	610.7
45°	746.3	745.4	734.4	718.3	695.4	665.8	629.4	620.1	625.1	646.3	660.7
47.5°	803.0	801.3	793.7	775.1	747.1	714.9	678.5	675.1	675.1	703.1	714.9
50°	858.1	858.9	851.3	833.5	799.6	768.3	739.5	725.9	730.2	759.0	772.5
52.5°	919.9	921.6	910.6	892.0	855.5	831.8	803.0	782.7	782.7	822.5	834.4
55°	984.3	985.1	978.4	954.7	926.7	898.7	864.9	840.3	841.1	885.2	895.4
57.5°	1050.4	1048.7	1041.1	1023.3	1004.6	959.7	923.3	901.3	907.2	952.1	959.7
60°	1119.8	1119.0	1111.4	1094.4	1066.5	1011.4	990.2	976.7	971.6	1027.5	1028.3
62.5°	1199.5	1196.1	1190.1	1174.9	1136.8	1086.8	1063.9	1057.2	1047.0	1104.6	1107.1
65°	1297.7	1291.8	1287.6	1270.6	1232.5	1174.0	1144.4	1152.0	1145.2	1216.4	1207.1
67.5°	1449.3	1438.3	1424.8	1409.5	1367.2	1313.8	1273.2	1290.1	1285.9	1363.8	1360.4
70°	1572.2	1565.4	1564.5	1562.9	1542.5	1508.6	1463.7	1478.1	1495.9	1594.2	1584.0
72°	1490.9	1482.4	1490.0	1496.8	1495.1	1480.7	1456.1	1489.2	1543.4	1646.7	1614.5
72.5°	1471.4	1462.9	1468.0	1473.9	1473.9	1460.4	1438.3	1469.7	1527.3	1628.1	1597.6
75°	1380.7	1378.2	1382.4	1390.1	1398.5	1391.7	1388.4	1407.8	1468.0	1567.1	1529.0
77.5°	1231.6	1235.0	1240.1	1251.1	1267.2	1274.8	1294.3	1324.8	1392.6	1480.7	1449.3
80°	940.3	935.2	947.9	970.7	987.7	1004.6	1030.9	1068.2	1139.3	1218.9	1170.7
82.5°	314.3	351.5	371.9	415.9	473.5	513.3	570.1	644.6	731.9	797.9	737.8
85°	27.1	32.2	44.9	61.8	79.6	105.9	160.1	200.8	265.1	324.4	274.5
87.5°	6.8	11.0	19.5	27.1	28.0	28.8	32.2	34.7	38.1	39.0	48.3
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°	69.5	69.5	69.5	69.5	69.5	69.5	69.5	69.5
2.5°	91.5	87.2	79.6	72.0	71.2	70.3	69.5	68.6
5°	102.5	108.4	94.0	92.3	88.9	72.8	70.3	68.6
7.5°	82.2	83.0	96.6	96.6	87.2	84.7	70.3	68.6
10°	91.5	88.9	109.3	127.9	133.0	123.7	103.3	101.6
12.5°	155.9	135.5	116.9	118.6	133.0	128.8	115.2	100.8
15°	165.2	159.3	161.8	160.9	159.3	170.3	153.3	149.9
17.5°	203.3	197.4	195.7	174.5	165.2	166.0	170.3	159.3
20°	218.5	219.4	264.3	265.1	248.2	245.7	244.8	242.3
22.5°	295.6	293.9	284.6	281.2	264.3	313.4	320.2	320.2
25°	310.0	334.6	369.3	368.5	359.2	344.8	347.3	331.2
27.5°	386.3	386.3	385.4	393.9	406.6	399.0	393.9	386.3
30°	402.4	428.6	435.4	422.7	428.6	437.1	446.4	454.9
32.5°	449.0	444.7	469.3	480.3	489.6	496.4	474.4	482.8
35°	486.2	501.5	505.7	505.7	512.5	516.7	502.3	502.3
37.5°	528.6	535.4	532.0	537.0	539.6	548.9	547.2	543.0
40°	564.2	570.9	569.2	572.6	571.8	587.9	593.0	575.2
42.5°	609.0	613.3	610.7	612.4	623.4	631.1	647.2	636.2
45°	653.9	658.2	655.6	658.2	676.8	680.2	702.2	700.5
47.5°	705.6	706.5	706.5	714.9	731.0	733.6	758.1	757.3
50°	760.7	764.9	757.3	768.3	786.1	797.1	817.4	828.4
52.5°	822.5	825.9	806.4	833.5	847.9	864.9	875.0	892.8
55°	878.4	883.5	863.2	890.3	903.8	919.9	945.3	961.4
57.5°	937.7	934.3	934.3	941.1	953.8	975.8	1008.9	1038.5
60°	1005.5	993.6	991.9	991.9	1016.5	1054.6	1080.9	1111.4
62.5°	1084.3	1064.8	1068.2	1056.3	1085.1	1131.7	1163.0	1201.2
65°	1178.3	1155.4	1150.3	1144.4	1165.6	1217.2	1265.5	1294.3
67.5°	1318.0	1284.2	1265.5	1259.6	1284.2	1333.3	1394.3	1424.8
70°	1525.6	1466.3	1402.8	1388.4	1389.2	1437.5	1487.5	1515.4
72°	1527.3	1452.7	1364.6	1335.0	1351.9	1384.1	1429.0	1446.0
72.5°	1504.4	1433.3	1340.9	1318.9	1344.3	1368.9	1418.0	1430.7
75°	1452.7	1381.6	1289.2	1274.8	1285.0	1301.1	1347.7	1351.9
77.5°	1367.2	1287.6	1175.7	1147.8	1123.2	1157.1	1191.8	1180.8
80°	1097.0	1006.3	900.4	879.3	836.9	859.8	880.1	864.0
82.5°	644.6	537.0	443.9	391.3	324.4	308.3	315.1	264.3
85°	205.0	137.2	96.6	65.2	57.6	44.9	37.3	32.2
87.5°	44.9	37.3	33.9	31.3	31.3	26.3	18.6	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)