

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: P156918

Luminaire Tested: **UTLD-E02-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156918
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33664)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-E02-LED-E-U-5MQ-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4751.7 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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

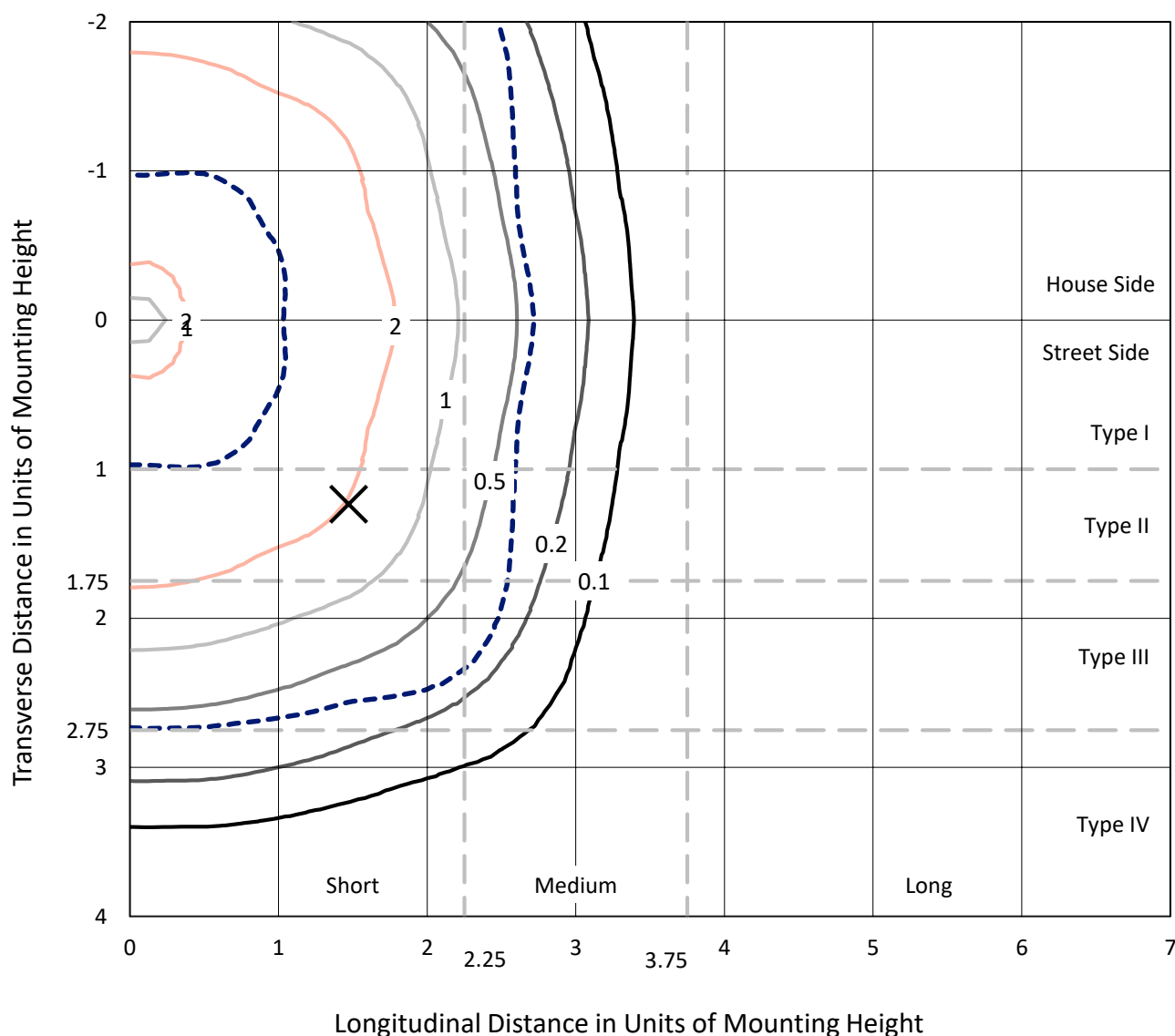


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

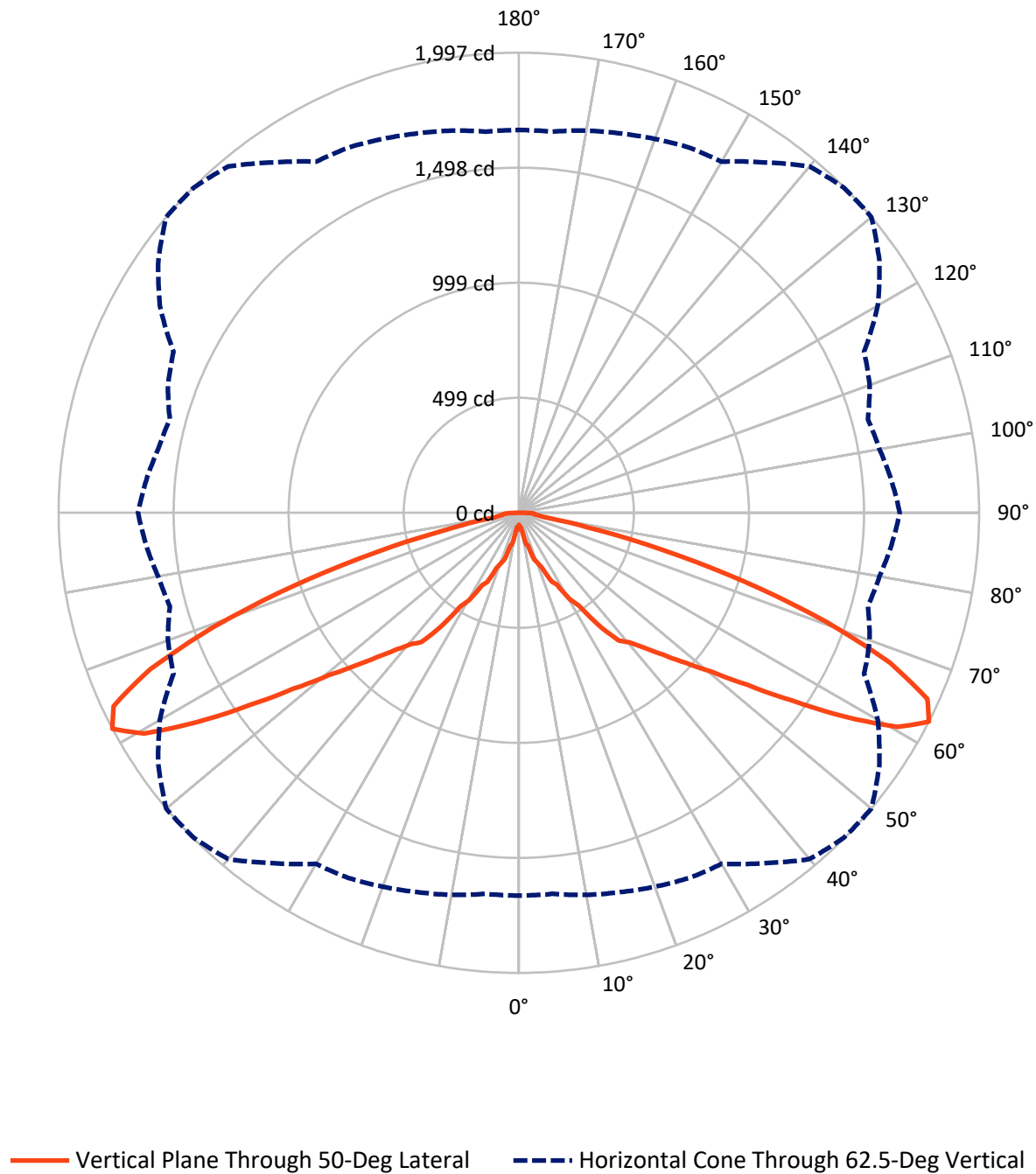


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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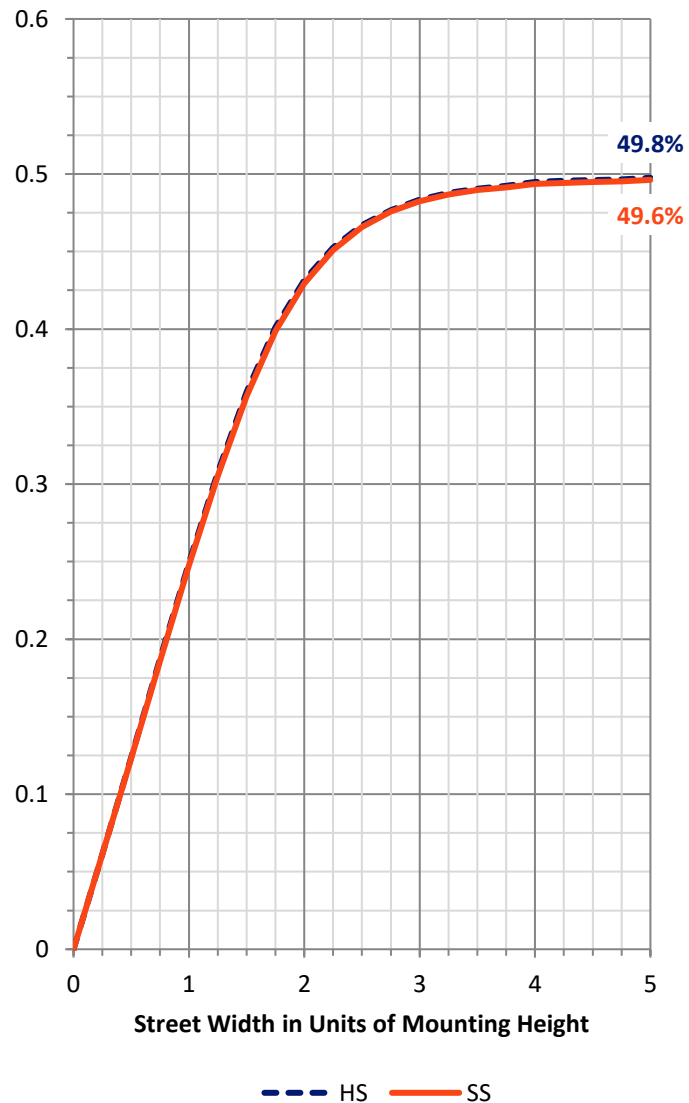
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2375.9	0.0	2375.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2375.9	0.0	2375.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4751.7	0.0	4751.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	0.2
10°-20°	45.8	1.0
20°-30°	152.3	3.2
30°-40°	389.9	8.2
40°-50°	722.5	15.2
50°-60°	1312.7	27.6
60°-70°	1547.3	32.6
70°-80°	507.5	10.7
80°-90°	66.6	1.4
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°	4751.7	100.0
0°-180°	4751.7	100.0

Coefficient of Utilization



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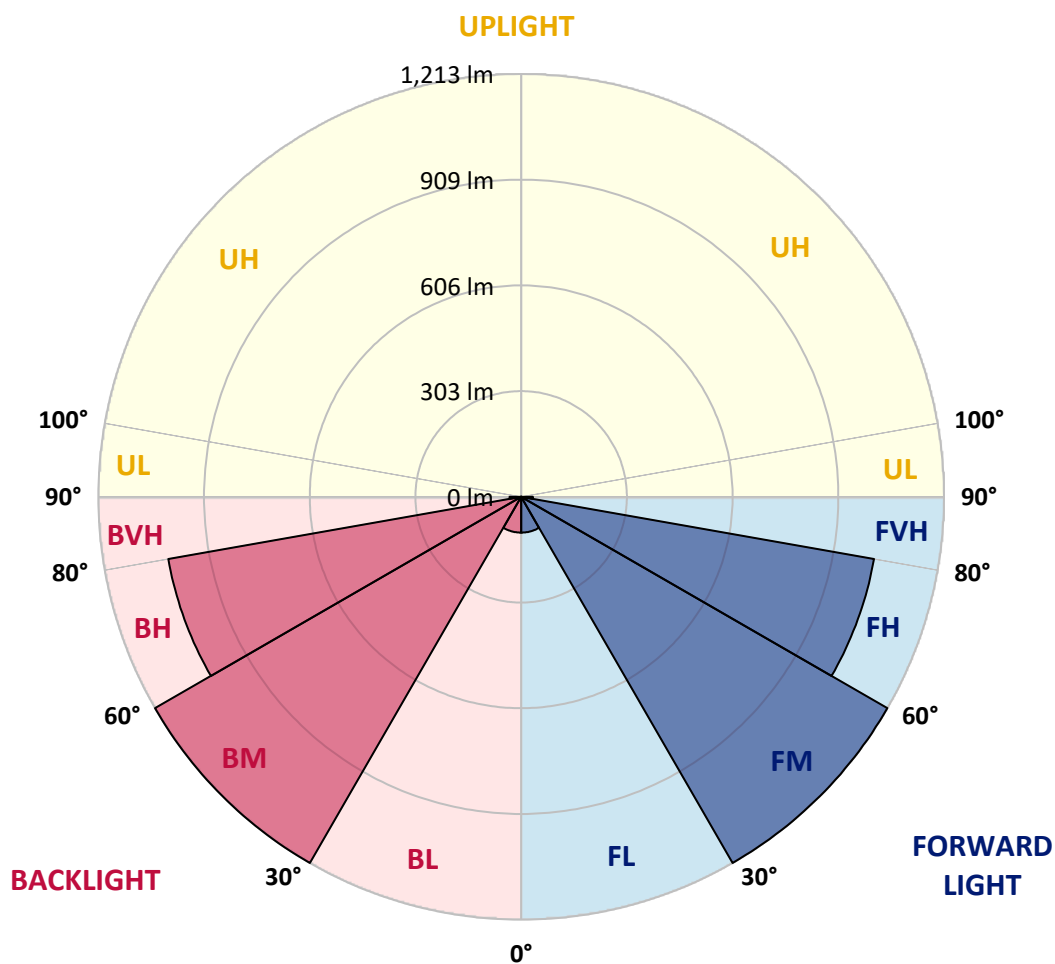
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.7	2.2			
FM	(30°-60°)	1212.5	25.5			
FH	(60°-80°)	1027.4	21.6			G1/1800
FVH	(80°-90°)	33.3	0.7			G1/100
BL	(0°-30°)	102.7	2.2	B0/110		
BM	(30°-60°)	1212.5	25.5	B2/2500		
BH	(60°-80°)	1027.4	21.6	B3/2500		G1/1800
BVH	(80°-90°)	33.3	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	82.3	82.3	82.3	82.8	83.6	82.9	81.4	80.8	72.4	71.5	63.1
5°	60.4	60.6	61.0	60.8	61.0	62.6	61.6	62.6	61.2	63.3	73.4
7.5°	97.9	99.2	98.6	97.7	96.9	92.4	81.6	72.4	64.0	63.1	62.4
10°	105.0	105.5	105.1	104.6	104.4	104.4	104.0	100.9	99.8	97.5	83.4
12.5°	149.8	150.9	150.0	149.0	148.6	130.6	121.1	110.1	106.8	136.1	139.2
15°	158.6	160.4	158.7	157.6	157.2	154.6	152.6	176.2	173.9	148.3	147.5
17.5°	206.8	207.0	205.9	205.3	199.8	189.9	194.8	190.1	186.6	185.7	210.7
20°	236.8	232.9	225.8	215.0	208.9	233.0	235.7	228.7	212.2	223.0	231.7
22.5°	270.1	270.5	269.0	262.0	261.2	275.6	252.8	257.8	268.0	253.0	259.1
25°	333.4	333.2	328.1	304.4	299.8	294.6	293.9	301.1	285.7	307.8	330.0
27.5°	363.8	359.5	353.4	343.5	358.9	350.5	344.1	317.6	362.1	341.2	353.8
30°	445.2	442.7	431.0	424.8	420.7	392.2	381.7	406.2	395.4	399.6	433.8
32.5°	579.0	579.4	560.4	527.3	482.8	480.2	465.3	451.5	465.9	459.6	481.5
35°	700.5	684.5	644.6	632.8	609.4	598.8	583.0	561.0	571.4	568.2	604.7
37.5°	755.0	754.1	732.2	716.8	706.6	669.5	657.9	671.8	663.0	654.3	703.0
40°	871.4	869.6	845.7	822.7	799.1	743.8	725.8	714.0	704.7	706.6	739.3
42.5°	942.8	944.8	919.3	898.8	862.1	820.4	791.2	785.2	769.3	768.9	801.2
45°	1022.9	1022.1	1003.3	975.9	938.3	905.2	865.5	861.7	847.8	847.2	878.8
47.5°	1114.9	1112.0	1096.3	1071.7	1037.5	991.7	960.0	952.2	941.9	936.0	973.6
50°	1240.2	1239.6	1220.4	1190.0	1162.4	1117.6	1078.9	1059.8	1055.6	1048.0	1084.9
52.5°	1405.7	1402.5	1393.2	1353.4	1328.4	1257.1	1216.8	1200.4	1207.1	1200.0	1239.6
55°	1585.0	1577.0	1573.0	1536.9	1517.9	1449.4	1402.5	1395.3	1402.9	1409.2	1439.6
57.5°	1727.6	1723.0	1729.1	1706.1	1679.4	1635.9	1590.1	1611.0	1634.2	1643.4	1671.3
60°	1758.0	1761.0	1774.3	1776.0	1771.8	1763.1	1733.8	1783.3	1849.4	1871.6	1887.4
62.5°	1661.4	1660.2	1684.0	1704.4	1727.0	1749.0	1759.3	1856.2	1962.1	1994.8	1997.1
65°	1490.4	1492.0	1521.1	1542.2	1570.0	1605.7	1666.7	1771.6	1916.1	1956.8	1948.4
67.5°	1263.0	1273.4	1296.6	1331.8	1356.5	1397.9	1470.2	1573.6	1711.0	1748.7	1737.4
70°	985.0	997.0	1021.4	1043.6	1080.3	1132.6	1175.2	1288.6	1398.1	1429.3	1411.6
72.5°	620.8	632.6	673.7	699.2	733.6	780.7	823.6	926.1	1027.0	1058.1	1025.9
75°	219.8	230.2	268.4	303.8	341.0	395.8	453.8	543.5	647.8	686.6	640.8
77.5°	86.1	88.0	94.9	99.6	114.2	137.4	170.9	221.3	304.3	340.8	303.4
80°	75.6	79.1	83.4	86.1	86.3	84.8	83.4	87.5	105.9	118.4	103.2
82.5°	65.4	69.4	77.4	82.5	83.1	81.0	78.7	75.8	73.2	70.1	75.3
85°	48.1	58.2	69.4	76.2	77.4	75.8	74.9	71.8	66.5	60.1	68.2
87.5°	19.4	29.8	54.4	64.6	64.1	58.7	60.4	61.4	54.4	39.9	57.8
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°	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
2.5°	63.7	57.6	55.3	52.5	51.9	51.3	51.3	51.0
5°	79.1	82.5	80.4	69.2	56.1	55.0	52.5	52.3
7.5°	62.6	62.4	71.7	79.3	73.8	55.5	54.9	54.4
10°	69.8	89.7	91.2	94.1	116.7	98.6	83.6	81.4
12.5°	136.1	112.0	97.9	100.9	107.6	116.7	89.3	85.6
15°	143.9	144.1	157.6	141.6	139.1	155.5	127.2	131.7
17.5°	183.6	182.1	181.5	153.0	149.8	149.0	152.8	143.4
20°	211.0	200.9	241.0	251.3	229.6	222.0	226.2	224.1
22.5°	282.7	289.7	269.4	267.8	263.1	289.2	296.6	285.7
25°	297.3	328.7	360.6	361.2	347.1	336.4	353.0	338.8
27.5°	390.8	383.2	393.9	385.9	425.8	415.2	414.4	400.0
30°	423.9	439.7	462.7	460.2	473.9	467.4	460.4	484.4
32.5°	503.0	503.6	523.7	573.5	593.3	609.0	596.7	603.4
35°	614.8	648.0	657.7	654.5	658.9	679.2	663.6	663.4
37.5°	706.4	706.2	700.9	693.3	703.9	719.1	722.0	708.5
40°	750.3	749.9	752.8	757.7	774.2	783.7	800.1	777.7
42.5°	811.7	808.6	820.0	832.2	846.3	855.6	880.5	856.2
45°	891.7	890.0	899.5	908.8	920.6	925.2	958.5	959.6
47.5°	983.2	987.7	975.7	985.8	998.4	1008.8	1049.9	1055.9
50°	1093.6	1104.1	1075.4	1084.1	1100.2	1123.4	1155.4	1178.2
52.5°	1248.2	1241.3	1219.4	1212.8	1244.9	1286.2	1317.9	1355.1
55°	1448.5	1424.2	1399.8	1387.7	1423.2	1478.5	1510.8	1558.8
57.5°	1666.7	1624.9	1560.1	1569.4	1586.9	1632.7	1650.0	1725.6
60°	1841.4	1772.0	1671.1	1647.6	1641.4	1665.8	1713.3	1751.2
62.5°	1909.5	1798.8	1653.2	1620.2	1567.9	1589.2	1622.8	1652.6
65°	1833.8	1690.9	1545.6	1486.7	1426.6	1447.0	1464.8	1483.3
67.5°	1628.3	1488.8	1354.6	1274.4	1220.2	1222.1	1246.0	1244.4
70°	1325.9	1191.1	1078.2	1012.1	957.9	948.2	961.7	973.1
72.5°	932.0	822.7	739.8	676.7	618.2	613.2	598.2	613.2
75°	535.9	431.2	364.6	298.5	238.8	226.6	205.9	209.3
77.5°	219.9	153.8	119.0	96.2	88.6	86.5	87.8	86.9
80°	89.1	81.6	80.0	79.8	81.2	82.3	82.7	78.9
82.5°	79.6	79.3	78.1	77.4	77.8	78.3	73.2	70.1
85°	74.5	74.2	72.8	71.7	71.9	69.6	62.2	55.3
87.5°	66.3	62.5	59.7	63.3	64.6	59.3	39.7	32.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)