

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: P156926

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156926
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-F02-LED-E-U-5MQ-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4769.1 lumens
Efficiency: N/A
Efficacy: 86.7 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): 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



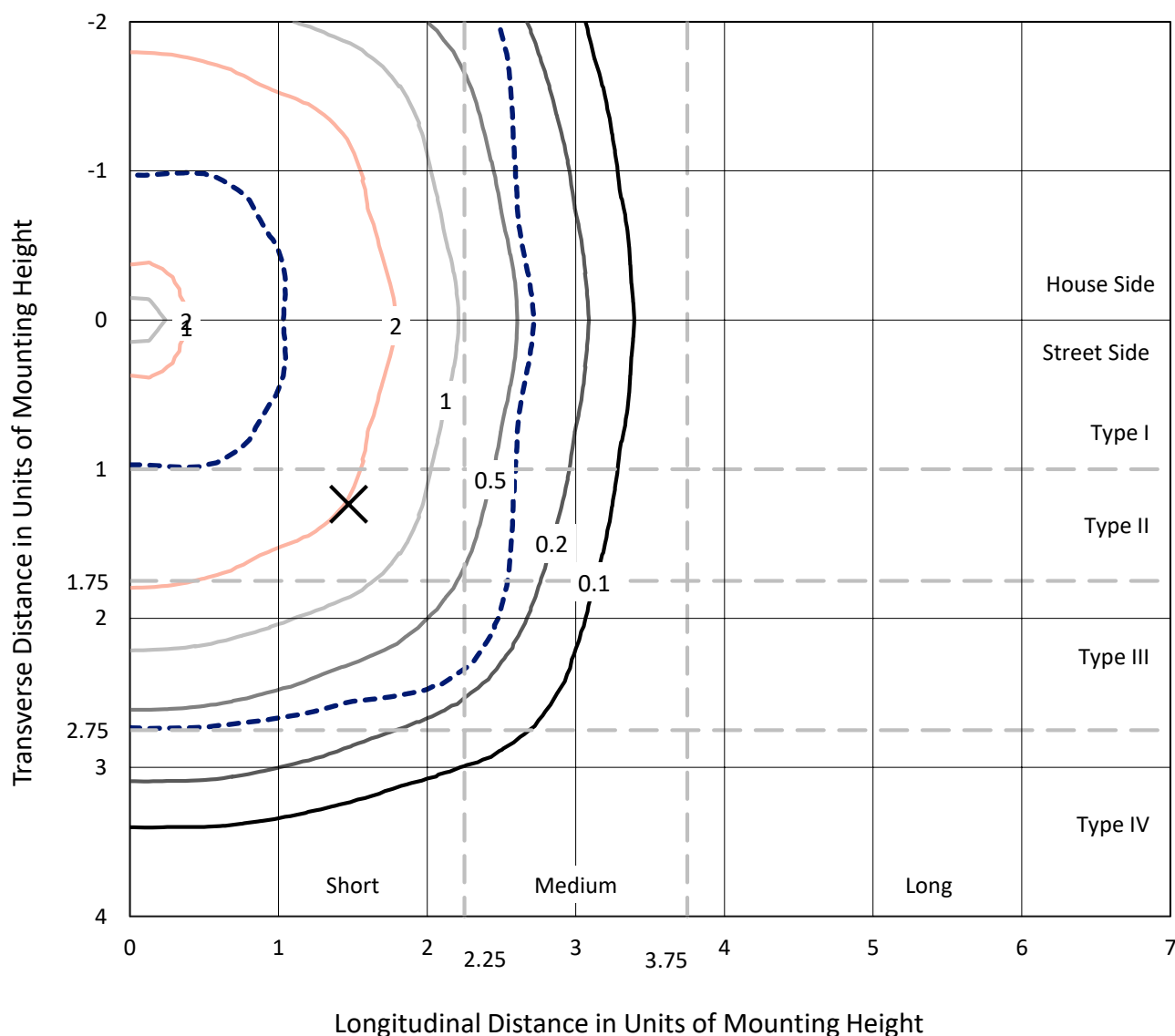
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

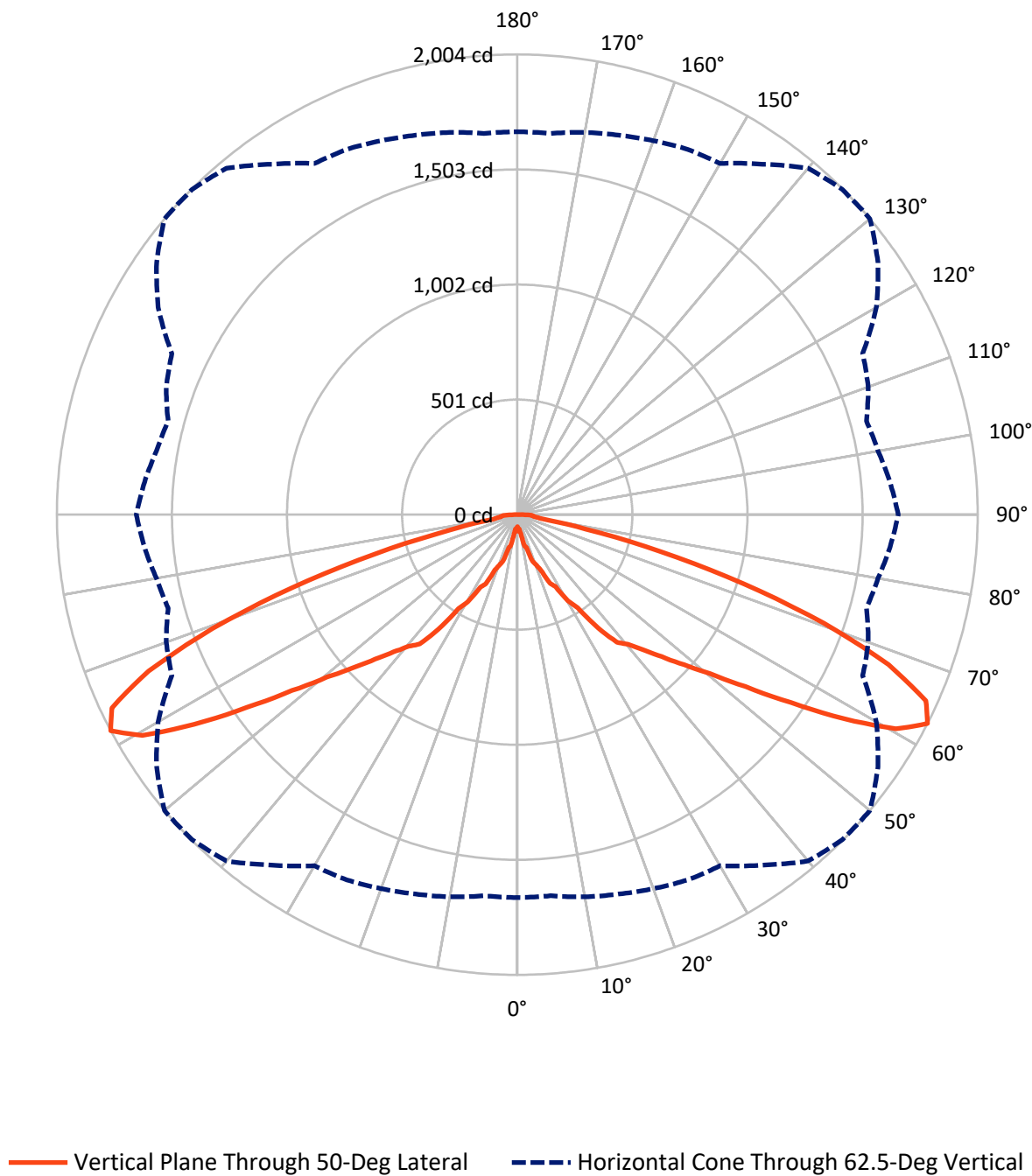


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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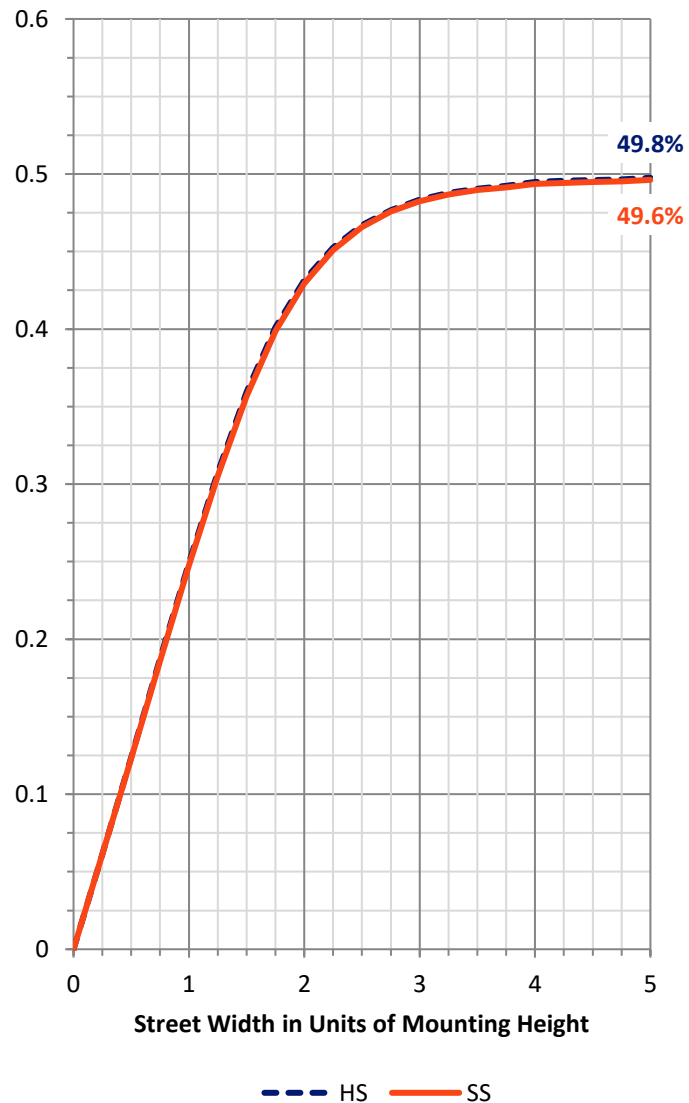
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2384.5	0.0	2384.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2384.5	0.0	2384.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4769.1	0.0	4769.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	0.2
10°-20°	45.9	1.0
20°-30°	152.9	3.2
30°-40°	391.3	8.2
40°-50°	725.1	15.2
50°-60°	1317.5	27.6
60°-70°	1553.0	32.6
70°-80°	509.4	10.7
80°-90°	66.8	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°	4769.1	100.0
0°-180°	4769.1	100.0

Coefficient of Utilization



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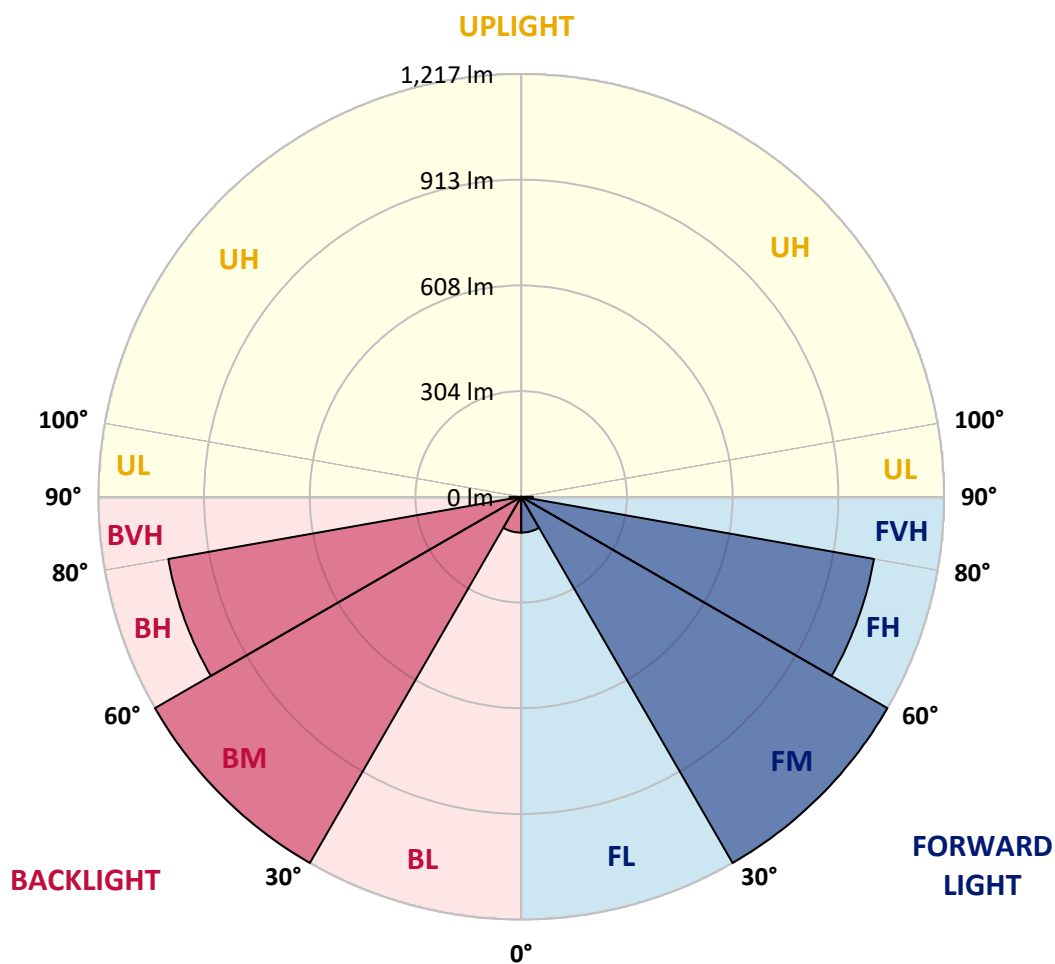
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	103.0	2.2			
FM	(30°-60°)	1216.9	25.5			
FH	(60°-80°)	1031.2	21.6			G1/1800
FVH	(80°-90°)	33.4	0.7			G1/100
BL	(0°-30°)	103.0	2.2	B0/110		
BM	(30°-60°)	1216.9	25.5	B2/2500		
BH	(60°-80°)	1031.2	21.6	B3/2500		G1/1800
BVH	(80°-90°)	33.4	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°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
2.5°	82.6	82.6	82.6	83.1	83.9	83.2	81.8	81.1	72.7	71.8	63.3
5°	60.6	60.8	61.2	61.0	61.2	62.9	61.8	62.9	61.4	63.5	73.7
7.5°	98.2	99.5	98.9	98.0	97.2	92.7	82.0	72.6	64.2	63.3	62.7
10°	105.4	105.9	105.4	105.0	104.8	104.8	104.4	101.2	100.1	97.8	83.6
12.5°	150.4	151.4	150.6	149.5	149.1	131.1	121.5	110.6	107.2	136.6	139.8
15°	159.2	161.0	159.2	158.2	157.8	155.2	153.1	176.8	174.5	148.9	148.0
17.5°	207.6	207.7	206.7	206.1	200.6	190.6	195.5	190.8	187.2	186.3	211.6
20°	237.6	233.8	226.6	215.8	209.6	233.8	236.5	229.6	213.0	223.8	232.5
22.5°	271.0	271.5	270.0	263.0	262.2	276.6	253.7	258.8	269.0	253.9	260.0
25°	334.6	334.4	329.3	305.6	300.9	295.6	295.0	302.2	286.7	309.0	331.2
27.5°	365.1	360.8	354.7	344.8	360.2	351.8	345.4	318.7	363.4	342.4	355.1
30°	446.8	444.3	432.6	426.3	422.2	393.7	383.1	407.6	396.9	401.1	435.4
32.5°	581.1	581.5	562.5	529.2	484.6	482.0	466.9	453.2	467.6	461.2	483.3
35°	703.0	687.0	647.0	635.1	611.6	601.0	585.1	563.1	573.5	570.3	607.0
37.5°	757.7	756.8	734.8	719.4	709.2	672.0	660.3	674.3	665.4	656.7	705.6
40°	874.6	872.7	848.8	825.7	802.0	746.5	728.5	716.6	707.3	709.2	742.1
42.5°	946.2	948.3	922.7	902.2	865.3	823.3	794.1	788.0	772.1	771.7	804.1
45°	1026.7	1025.8	1007.0	979.4	941.7	908.5	868.7	864.8	850.9	850.3	882.0
47.5°	1119.0	1116.0	1100.3	1075.6	1041.3	995.3	963.6	955.7	945.4	939.4	977.1
50°	1244.8	1244.1	1224.9	1194.4	1166.6	1121.7	1082.8	1063.7	1059.5	1051.8	1088.9
52.5°	1410.8	1407.6	1398.3	1358.3	1333.3	1261.7	1221.3	1204.8	1211.6	1204.4	1244.2
55°	1590.9	1582.8	1578.8	1542.5	1523.4	1454.7	1407.6	1400.4	1408.0	1414.4	1444.9
57.5°	1734.0	1729.3	1735.5	1712.4	1685.5	1641.8	1595.9	1616.9	1640.1	1649.5	1677.4
60°	1764.4	1767.4	1780.8	1782.4	1778.2	1769.6	1740.1	1789.9	1856.2	1878.4	1894.3
62.5°	1667.5	1666.2	1690.2	1710.6	1733.3	1755.4	1765.7	1862.9	1969.2	2002.0	2004.4
65°	1496.0	1497.4	1526.6	1547.8	1575.8	1611.6	1672.8	1778.0	1923.1	1964.0	1955.5
67.5°	1267.6	1278.0	1301.3	1336.7	1361.4	1403.0	1475.6	1579.4	1717.2	1755.2	1743.7
70°	988.5	1000.6	1025.2	1047.4	1084.3	1136.8	1179.6	1293.3	1403.2	1434.5	1416.7
72.5°	623.0	634.9	676.2	701.8	736.3	783.5	826.5	929.4	1030.7	1062.0	1029.6
75°	220.6	231.0	269.4	305.0	342.2	397.3	455.5	545.5	650.2	689.1	643.1
77.5°	86.4	88.3	95.3	100.0	114.6	137.9	171.5	222.1	305.4	342.0	304.5
80°	75.8	79.4	83.6	86.4	86.6	85.1	83.7	87.9	106.3	118.8	103.6
82.5°	65.6	69.7	77.7	82.8	83.4	81.3	79.0	76.1	73.5	70.3	75.6
85°	48.3	58.4	69.7	76.5	77.7	76.0	75.2	72.0	66.7	60.4	68.4
87.5°	19.5	29.8	54.6	64.8	64.4	58.9	60.6	61.6	54.6	40.0	58.0
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°	51.7	51.7	51.7	51.7	51.7	51.7	51.7	51.7
2.5°	64.0	57.8	55.5	52.7	52.1	51.5	51.5	51.2
5°	79.4	82.8	80.7	69.5	56.4	55.2	52.7	52.5
7.5°	62.9	62.7	72.0	79.6	74.1	55.7	55.1	54.6
10°	70.1	90.0	91.5	94.5	117.1	98.9	83.9	81.8
12.5°	136.6	112.4	98.2	101.2	108.0	117.1	89.6	86.0
15°	144.4	144.6	158.2	142.1	139.6	156.1	127.7	132.2
17.5°	184.2	182.8	182.1	153.5	150.4	149.5	153.3	144.0
20°	211.8	201.6	241.8	252.2	230.4	222.8	227.0	224.9
22.5°	283.8	290.8	270.4	268.7	264.0	290.3	297.8	286.7
25°	298.4	329.9	361.9	362.5	348.4	337.5	354.3	340.1
27.5°	392.2	384.6	395.3	387.3	427.4	416.8	415.9	401.5
30°	425.4	441.3	464.4	461.9	475.6	469.1	462.1	486.2
32.5°	504.9	505.5	525.6	575.6	595.5	611.2	598.9	605.6
35°	617.1	650.3	660.1	656.9	661.3	681.7	666.0	665.8
37.5°	709.0	708.8	703.5	695.9	706.5	721.7	724.7	711.1
40°	753.0	752.6	755.6	760.4	777.0	786.5	803.0	780.6
42.5°	814.6	811.5	823.0	835.2	849.4	858.7	883.7	859.4
45°	895.0	893.2	902.8	912.1	924.0	928.6	962.1	963.2
47.5°	986.8	991.3	979.2	989.4	1002.1	1012.5	1053.7	1059.7
50°	1097.6	1108.2	1079.4	1088.1	1104.2	1127.5	1159.6	1182.5
52.5°	1252.8	1245.8	1223.8	1217.2	1249.4	1290.9	1322.7	1360.0
55°	1453.8	1429.4	1404.8	1392.8	1428.4	1483.9	1516.2	1564.6
57.5°	1672.7	1630.8	1565.8	1575.1	1592.7	1638.7	1656.0	1731.8
60°	1848.1	1778.4	1677.2	1653.7	1647.4	1671.9	1719.5	1757.7
62.5°	1916.5	1805.4	1659.2	1626.2	1573.6	1595.1	1628.7	1658.6
65°	1840.5	1697.1	1551.2	1492.1	1431.8	1452.3	1470.1	1488.7
67.5°	1634.2	1494.2	1359.6	1279.1	1224.7	1226.6	1250.5	1249.0
70°	1330.7	1195.4	1082.1	1015.8	961.4	951.7	965.2	976.6
72.5°	935.4	825.7	742.4	679.2	620.4	615.4	600.4	615.4
75°	537.9	432.8	365.9	299.6	239.7	227.4	206.7	210.0
77.5°	220.6	154.4	119.4	96.6	89.0	86.8	88.1	87.2
80°	89.4	82.0	80.2	80.0	81.5	82.6	83.0	79.2
82.5°	79.8	79.6	78.4	77.7	78.2	78.6	73.4	70.3
85°	74.8	74.6	73.1	72.0	72.2	69.9	62.5	55.5
87.5°	66.5	62.7	59.9	63.5	64.8	59.5	39.8	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)