

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: P156920

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156920
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5630.1 lumens
Efficiency: N/A
Efficacy: 108.1 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

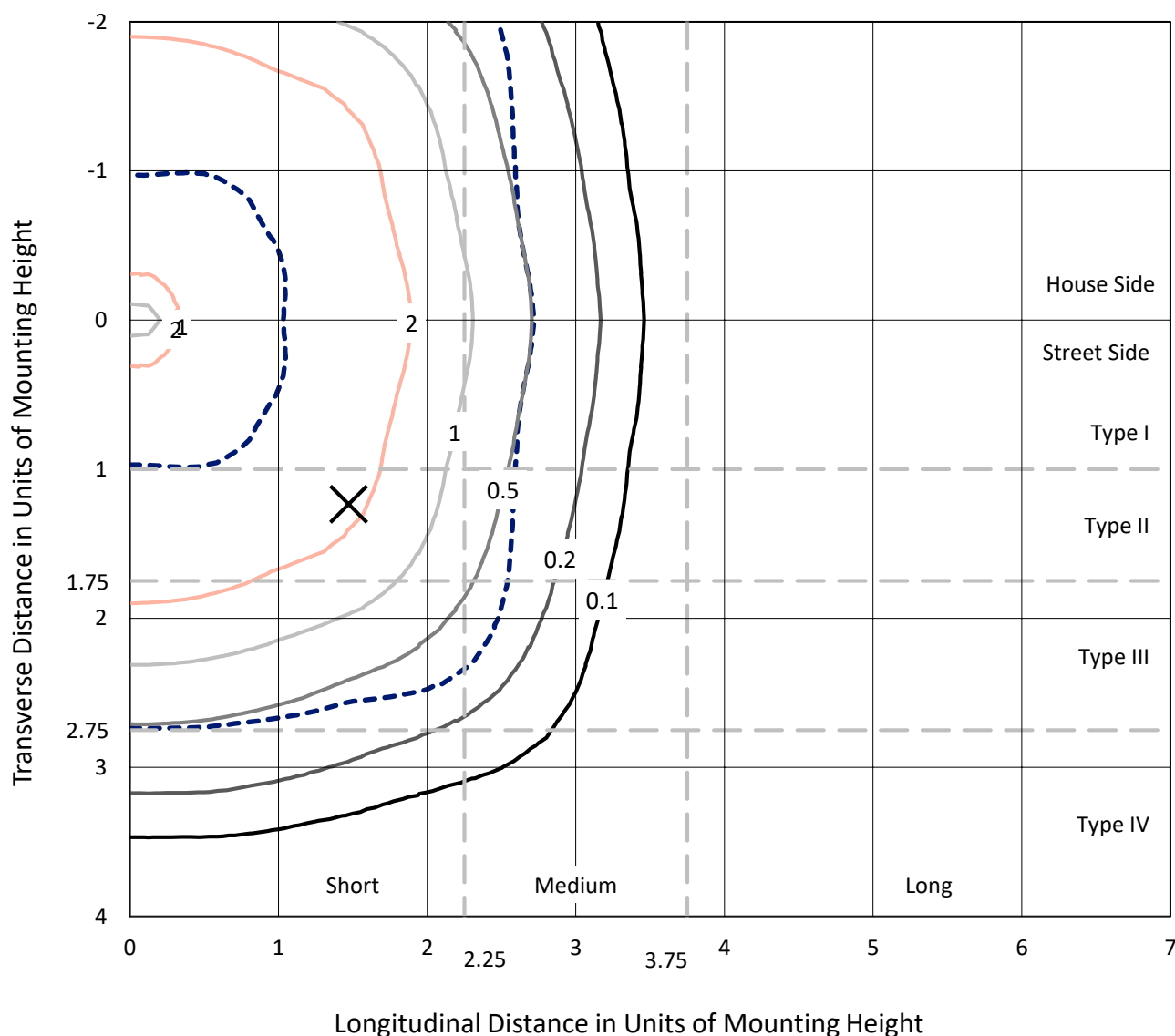


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

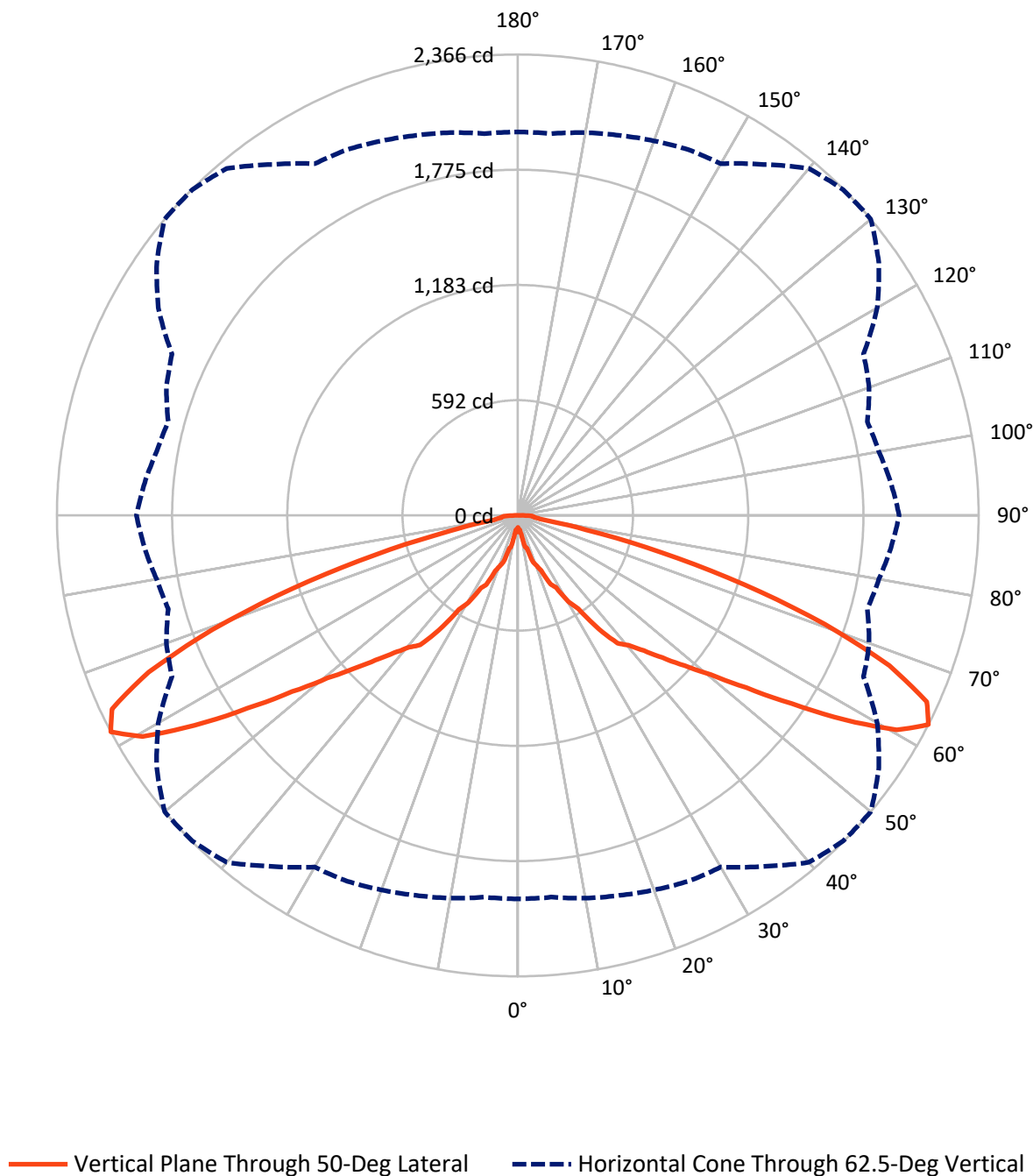


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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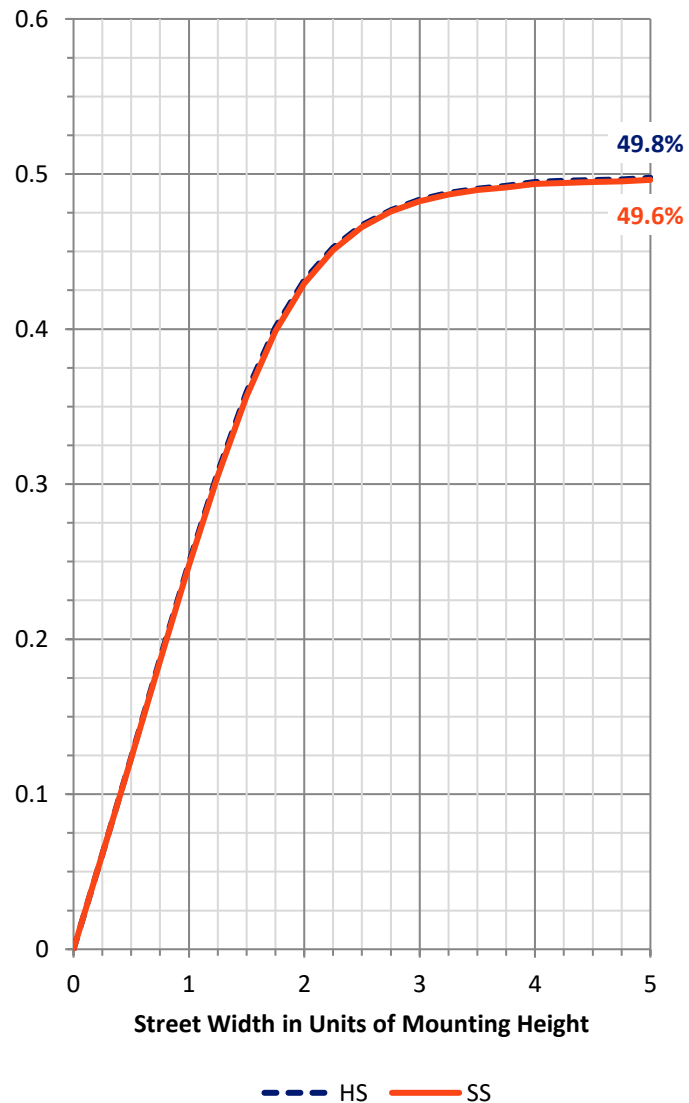
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.0	0.0	2815.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2815.0	0.0	2815.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5630.1	0.0	5630.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	0.2
10°-20°	54.2	1.0
20°-30°	180.5	3.2
30°-40°	461.9	8.2
40°-50°	856.0	15.2
50°-60°	1555.3	27.6
60°-70°	1833.3	32.6
70°-80°	601.3	10.7
80°-90°	78.9	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°	5630.1	100.0
0°-180°	5630.1	100.0

Coefficient of Utilization



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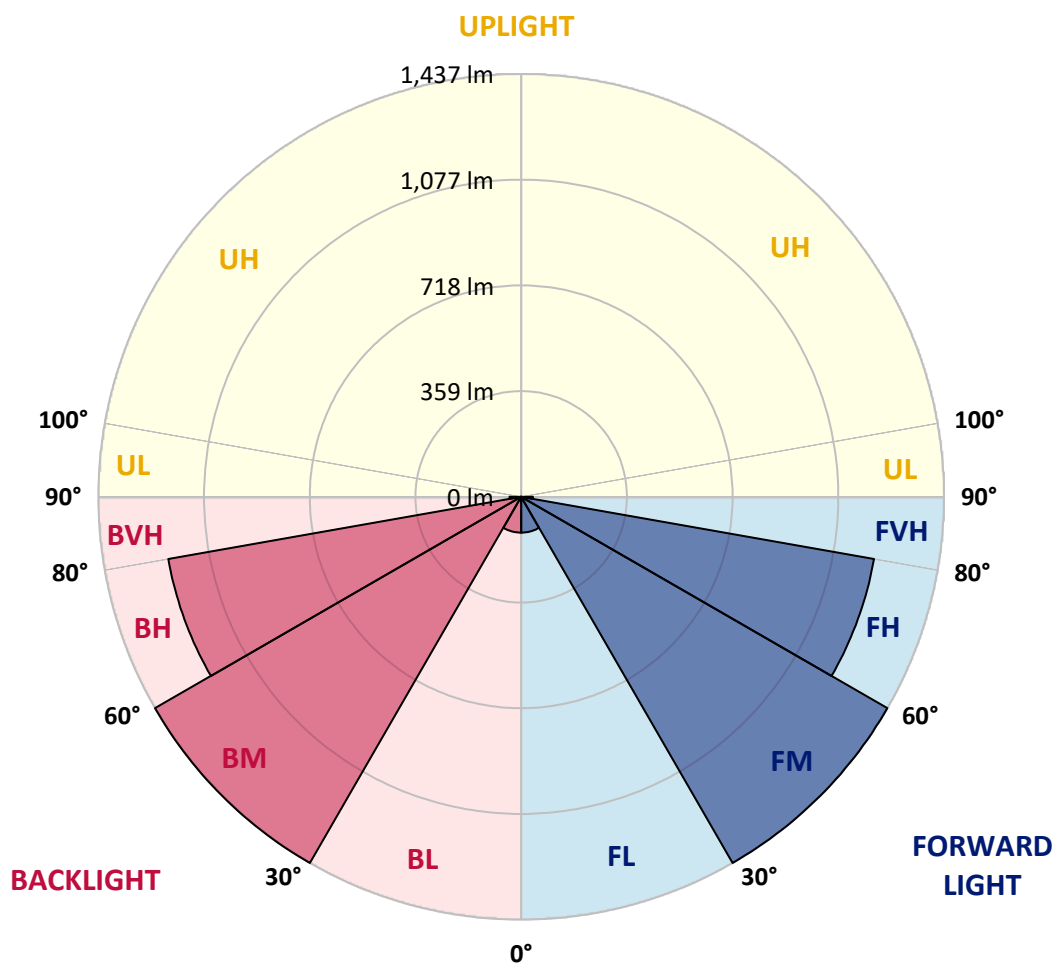
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	121.6	2.2			
FM	(30°-60°)	1436.6	25.5			
FH	(60°-80°)	1217.3	21.6			G1/1800
FVH	(80°-90°)	39.4	0.7			G1/100
BL	(0°-30°)	121.6	2.2	B1/500		
BM	(30°-60°)	1436.6	25.5	B2/2500		
BH	(60°-80°)	1217.3	21.6	B3/2500		G1/1800
BVH	(80°-90°)	39.4	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°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	97.5	97.5	97.5	98.0	99.0	98.2	96.5	95.8	85.8	84.8	74.8
5°	71.5	71.8	72.2	72.0	72.2	74.2	73.0	74.2	72.5	75.0	87.0
7.5°	116.0	117.5	116.8	115.8	114.8	109.5	96.8	85.8	75.8	74.8	74.0
10°	124.5	125.0	124.5	124.0	123.8	123.8	123.2	119.5	118.2	115.5	98.8
12.5°	177.5	178.8	177.8	176.5	176.0	154.8	143.5	130.5	126.5	161.2	165.0
15°	188.0	190.0	188.0	186.8	186.2	183.2	180.8	208.8	206.0	175.8	174.8
17.5°	245.0	245.2	244.0	243.2	236.8	225.0	230.8	225.2	221.0	220.0	249.8
20°	280.5	276.0	267.5	254.8	247.5	276.0	279.2	271.0	251.5	264.2	274.5
22.5°	320.0	320.5	318.8	310.5	309.5	326.5	299.5	305.5	317.5	299.8	307.0
25°	395.0	394.8	388.8	360.8	355.2	349.0	348.2	356.8	338.5	364.8	391.0
27.5°	431.0	426.0	418.8	407.0	425.2	415.2	407.8	376.2	429.0	404.2	419.2
30°	527.5	524.5	510.8	503.2	498.5	464.8	452.2	481.2	468.5	473.5	514.0
32.5°	686.0	686.5	664.0	624.8	572.0	569.0	551.2	535.0	552.0	544.5	570.5
35°	830.0	811.0	763.8	749.8	722.0	709.5	690.8	664.8	677.0	673.2	716.5
37.5°	894.5	893.5	867.5	849.2	837.2	793.2	779.5	796.0	785.5	775.2	833.0
40°	1032.5	1030.2	1002.0	974.8	946.8	881.2	860.0	846.0	835.0	837.2	876.0
42.5°	1117.0	1119.5	1089.2	1065.0	1021.5	972.0	937.5	930.2	911.5	911.0	949.2
45°	1212.0	1211.0	1188.8	1156.2	1111.8	1072.5	1025.5	1021.0	1004.5	1003.8	1041.2
47.5°	1321.0	1317.5	1299.0	1269.8	1229.2	1175.0	1137.5	1128.2	1116.0	1109.0	1153.5
50°	1469.5	1468.8	1446.0	1410.0	1377.2	1324.2	1278.2	1255.8	1250.8	1241.8	1285.5
52.5°	1665.5	1661.8	1650.8	1603.5	1574.0	1489.5	1441.8	1422.2	1430.2	1421.8	1468.8
55°	1878.0	1868.5	1863.8	1821.0	1798.5	1717.2	1661.8	1653.2	1662.2	1669.8	1705.8
57.5°	2047.0	2041.5	2048.8	2021.5	1989.8	1938.2	1884.0	1908.8	1936.2	1947.2	1980.2
60°	2083.0	2086.5	2102.2	2104.2	2099.2	2089.0	2054.2	2113.0	2191.2	2217.5	2236.2
62.5°	1968.5	1967.0	1995.2	2019.5	2046.2	2072.2	2084.5	2199.2	2324.8	2363.5	2366.2
65°	1766.0	1767.8	1802.2	1827.2	1860.2	1902.5	1974.8	2099.0	2270.2	2318.5	2308.5
67.5°	1496.5	1508.8	1536.2	1578.0	1607.2	1656.2	1742.0	1864.5	2027.2	2072.0	2058.5
70°	1167.0	1181.2	1210.2	1236.5	1280.0	1342.0	1392.5	1526.8	1656.5	1693.5	1672.5
72.5°	735.5	749.5	798.2	828.5	869.2	925.0	975.8	1097.2	1216.8	1253.8	1215.5
75°	260.5	272.8	318.0	360.0	404.0	469.0	537.8	644.0	767.5	813.5	759.2
77.5°	102.0	104.2	112.5	118.0	135.2	162.8	202.5	262.2	360.5	403.8	359.5
80°	89.5	93.8	98.8	102.0	102.2	100.5	98.8	103.8	125.5	140.2	122.2
82.5°	77.5	82.2	91.8	97.8	98.5	96.0	93.2	89.8	86.8	83.0	89.2
85°	57.0	69.0	82.2	90.2	91.8	89.8	88.8	85.0	78.8	71.2	80.8
87.5°	23.0	35.2	64.5	76.5	76.0	69.5	71.5	72.8	64.5	47.2	68.5
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°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
2.5°	75.5	68.2	65.5	62.2	61.5	60.8	60.8	60.5
5°	93.8	97.8	95.2	82.0	66.5	65.2	62.2	62.0
7.5°	74.2	74.0	85.0	94.0	87.5	65.8	65.0	64.5
10°	82.8	106.2	108.0	111.5	138.2	116.8	99.0	96.5
12.5°	161.2	132.8	116.0	119.5	127.5	138.2	105.8	101.5
15°	170.5	170.8	186.8	167.8	164.8	184.2	150.8	156.0
17.5°	217.5	215.8	215.0	181.2	177.5	176.5	181.0	170.0
20°	250.0	238.0	285.5	297.8	272.0	263.0	268.0	265.5
22.5°	335.0	343.2	319.2	317.2	311.8	342.8	351.5	338.5
25°	352.2	389.5	427.2	428.0	411.2	398.5	418.2	401.5
27.5°	463.0	454.0	466.8	457.2	504.5	492.0	491.0	474.0
30°	502.2	521.0	548.2	545.2	561.5	553.8	545.5	574.0
32.5°	596.0	596.8	620.5	679.5	703.0	721.5	707.0	715.0
35°	728.5	767.8	779.2	775.5	780.8	804.8	786.2	786.0
37.5°	837.0	836.8	830.5	821.5	834.0	852.0	855.5	839.5
40°	889.0	888.5	892.0	897.8	917.2	928.5	948.0	921.5
42.5°	961.8	958.0	971.5	986.0	1002.8	1013.8	1043.2	1014.5
45°	1056.5	1054.5	1065.8	1076.8	1090.8	1096.2	1135.8	1137.0
47.5°	1165.0	1170.2	1156.0	1168.0	1183.0	1195.2	1244.0	1251.0
50°	1295.8	1308.2	1274.2	1284.5	1303.5	1331.0	1369.0	1396.0
52.5°	1479.0	1470.8	1444.8	1437.0	1475.0	1524.0	1561.5	1605.5
55°	1716.2	1687.5	1658.5	1644.2	1686.2	1751.8	1790.0	1847.0
57.5°	1974.8	1925.2	1848.5	1859.5	1880.2	1934.5	1955.0	2044.5
60°	2181.8	2099.5	1980.0	1952.2	1944.8	1973.8	2030.0	2075.0
62.5°	2262.5	2131.2	1958.8	1919.8	1857.8	1883.0	1922.8	1958.0
65°	2172.8	2003.5	1831.2	1761.5	1690.2	1714.5	1735.5	1757.5
67.5°	1929.2	1764.0	1605.0	1510.0	1445.8	1448.0	1476.2	1474.5
70°	1571.0	1411.2	1277.5	1199.2	1135.0	1123.5	1139.5	1153.0
72.5°	1104.2	974.8	876.5	801.8	732.5	726.5	708.8	726.5
75°	635.0	511.0	432.0	353.8	283.0	268.5	244.0	248.0
77.5°	260.5	182.2	141.0	114.0	105.0	102.5	104.0	103.0
80°	105.5	96.8	94.8	94.5	96.2	97.5	98.0	93.5
82.5°	94.2	94.0	92.5	91.8	92.2	92.8	86.8	83.0
85°	88.2	88.0	86.2	85.0	85.2	82.5	73.8	65.5
87.5°	78.5	74.0	70.8	75.0	76.5	70.2	47.0	38.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)