

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: P156919

Luminaire Tested: **UTLD-E02-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156919
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-7030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5142.3 lumens
Efficiency: N/A
Efficacy: 98.7 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

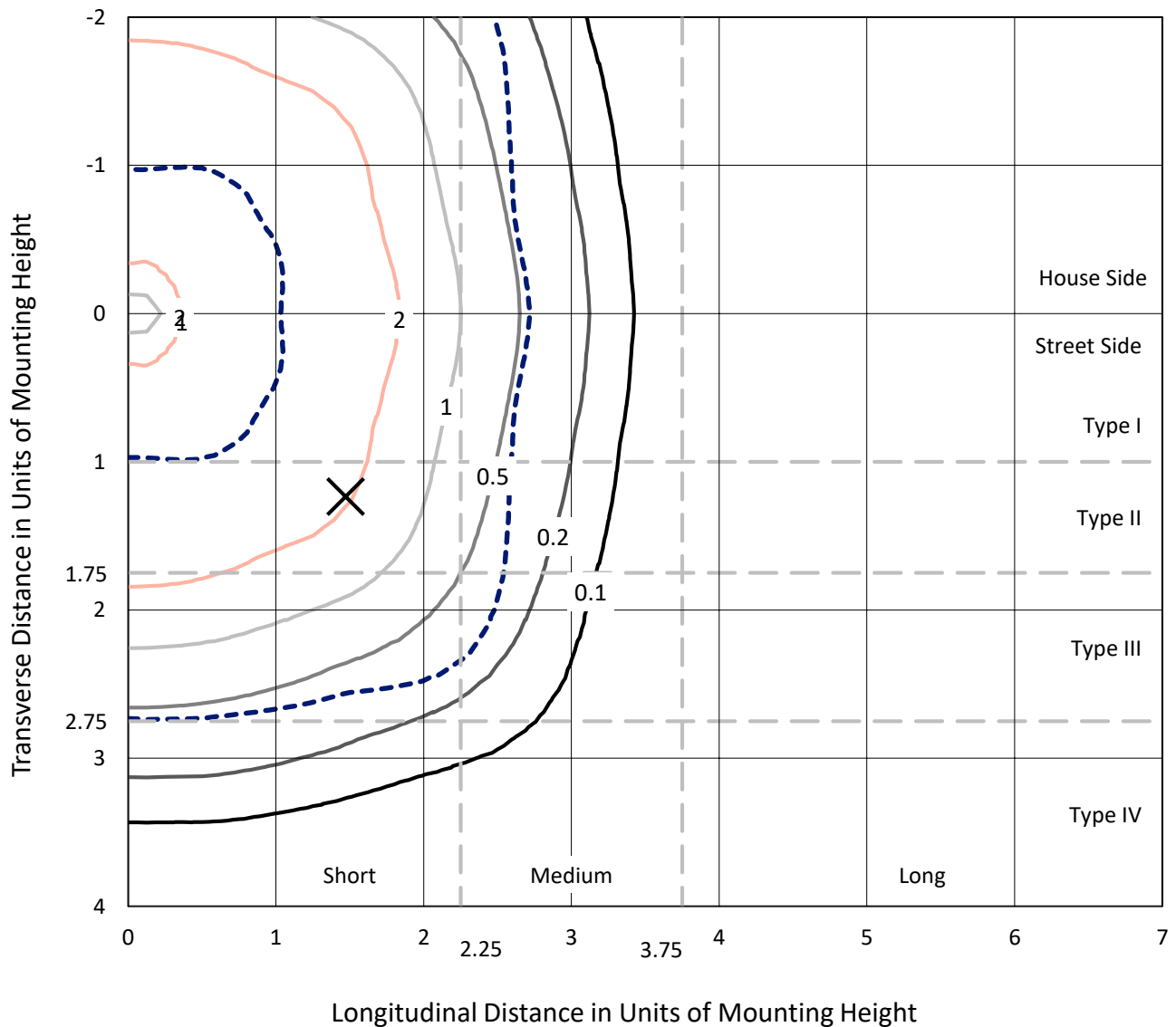
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P156919
 CATALOG NUMBER: UTLD-E02-LED-E-U-5MQ-7030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

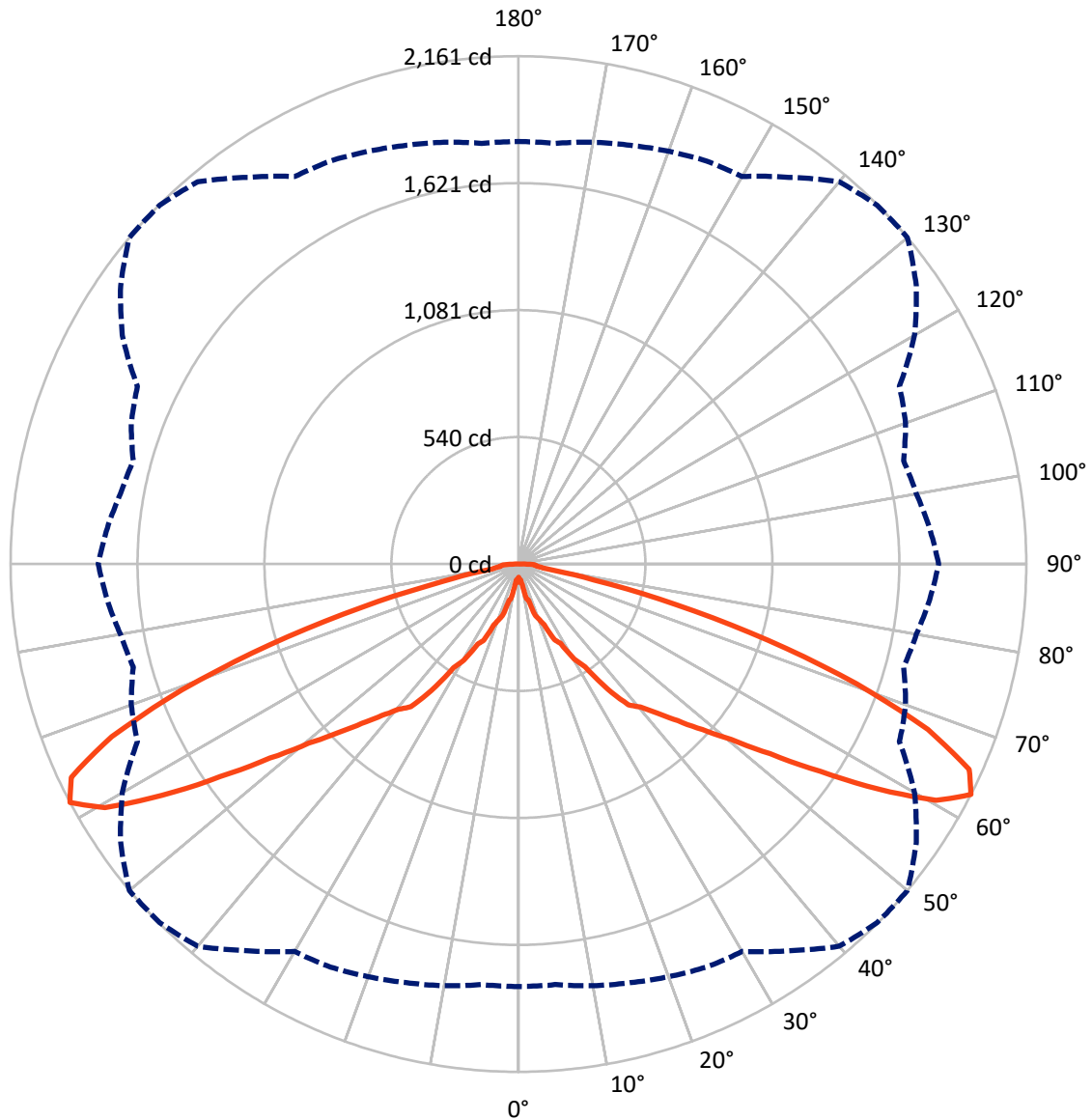


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P156919

CATALOG NUMBER: UTLD-E02-LED-E-U-5MQ-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P156919

CATALOG NUMBER: UTLD-E02-LED-E-U-5MQ-7030

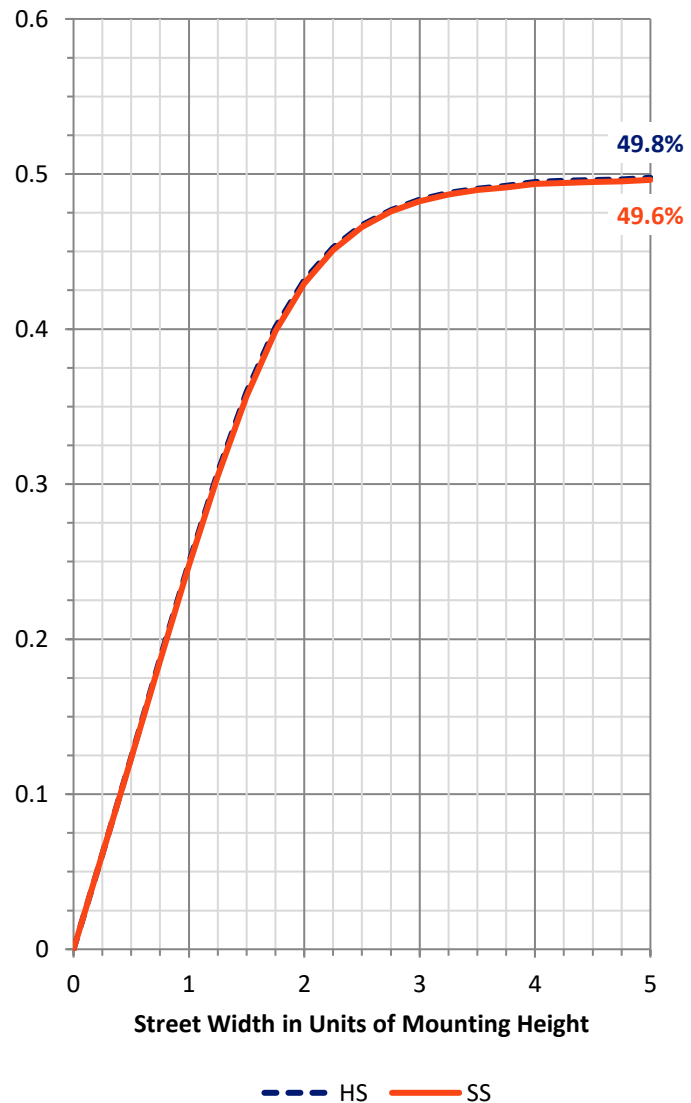
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2571.1	0.0	2571.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2571.1	0.0	2571.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	5142.3	0.0	5142.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	0.2
10°-20°	49.5	1.0
20°-30°	164.8	3.2
30°-40°	421.9	8.2
40°-50°	781.8	15.2
50°-60°	1420.6	27.6
60°-70°	1674.5	32.6
70°-80°	549.2	10.7
80°-90°	72.0	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°	5142.3	100.0
0°-180°	5142.3	100.0



REPORT NUMBER: P156919

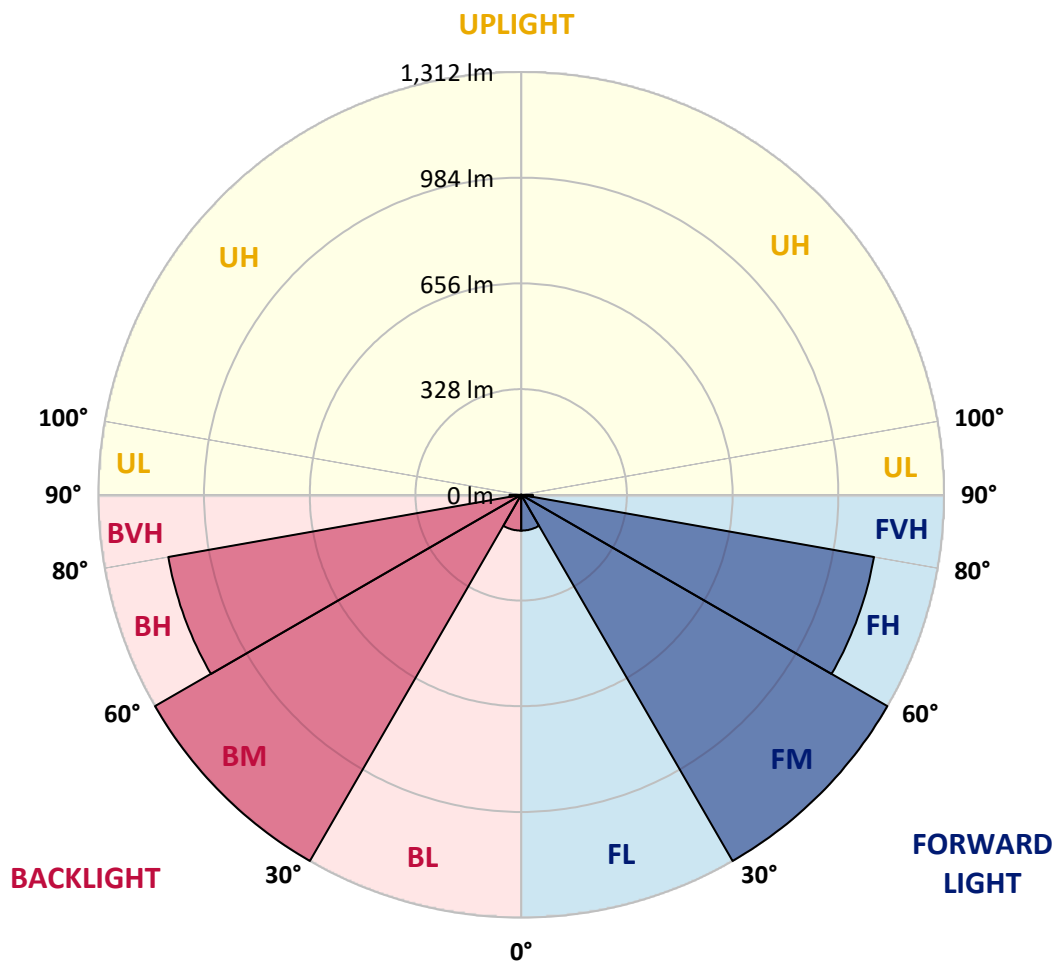
CATALOG NUMBER: UTLD-E02-LED-E-U-5MQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.1	2.2			
FM	(30°-60°)	1312.2	25.5			
FH	(60°-80°)	1111.9	21.6			G1/1800
FVH	(80°-90°)	36.0	0.7			G1/100
BL	(0°-30°)	111.1	2.2	B1/500		
BM	(30°-60°)	1312.2	25.5	B2/2500		
BH	(60°-80°)	1111.9	21.6	B3/2500		G1/1800
BVH	(80°-90°)	36.0	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





REPORT NUMBER: P156919

CATALOG NUMBER: UTLD-E02-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	89.0	89.0	89.0	89.5	90.4	89.7	88.2	87.5	78.3	77.4	68.3
5°	65.3	65.5	66.0	65.8	66.0	67.8	66.7	67.8	66.2	68.5	79.4
7.5°	106.0	107.3	106.6	105.7	104.8	100.0	88.4	78.4	69.2	68.2	67.6
10°	113.7	114.2	113.7	113.2	113.0	113.0	112.6	109.2	108.0	105.5	90.2
12.5°	162.1	163.2	162.3	161.2	160.8	141.4	131.1	119.2	115.6	147.3	150.7
15°	171.7	173.5	171.7	170.6	170.1	167.4	165.0	190.6	188.2	160.5	159.6
17.5°	223.8	224.0	222.8	222.2	216.2	205.5	210.7	205.8	201.9	200.9	228.1
20°	256.2	252.1	244.3	232.7	226.0	252.1	255.0	247.5	229.7	241.3	250.7
22.5°	292.3	292.8	291.1	283.6	282.7	298.2	273.6	279.0	290.0	273.8	280.4
25°	360.8	360.6	355.1	329.5	324.5	318.7	318.0	325.8	309.2	333.1	357.1
27.5°	393.6	389.0	382.4	371.8	388.4	379.3	372.4	343.6	391.8	369.2	382.9
30°	481.8	479.0	466.5	459.6	455.3	424.5	413.0	439.5	427.9	432.5	469.4
32.5°	626.6	627.0	606.5	570.6	522.4	519.7	503.4	488.6	504.2	497.3	521.1
35°	758.0	740.7	697.6	684.8	659.4	648.0	630.9	607.2	618.3	614.9	654.4
37.5°	817.0	816.1	792.3	775.7	764.7	724.5	712.0	727.0	717.4	708.1	760.8
40°	943.0	941.0	915.2	890.3	864.7	804.9	785.5	772.7	762.7	764.7	800.1
42.5°	1020.2	1022.5	994.8	972.7	933.0	887.8	856.3	849.6	832.5	832.1	867.0
45°	1107.0	1106.1	1085.8	1056.0	1015.4	979.6	936.6	932.6	917.5	916.8	951.0
47.5°	1206.6	1203.4	1186.4	1159.7	1122.7	1073.2	1038.9	1030.5	1019.3	1012.9	1053.5
50°	1342.2	1341.5	1320.7	1287.8	1257.9	1209.5	1167.5	1147.0	1142.4	1134.2	1174.1
52.5°	1521.2	1517.8	1507.7	1464.5	1437.6	1360.4	1316.8	1299.0	1306.3	1298.6	1341.5
55°	1715.3	1706.6	1702.3	1663.2	1642.7	1568.5	1517.8	1510.0	1518.2	1525.1	1558.0
57.5°	1869.6	1864.6	1871.2	1846.3	1817.3	1770.3	1720.7	1743.4	1768.4	1778.5	1808.7
60°	1902.5	1905.7	1920.1	1921.9	1917.4	1908.0	1876.2	1929.9	2001.4	2025.4	2042.5
62.5°	1798.0	1796.6	1822.4	1844.5	1869.0	1892.7	1903.9	2008.7	2123.3	2158.7	2161.2
65°	1613.0	1614.6	1646.1	1668.9	1699.0	1737.6	1803.6	1917.1	2073.5	2117.6	2108.5
67.5°	1366.8	1378.0	1403.2	1441.3	1468.0	1512.8	1591.0	1703.0	1851.6	1892.5	1880.2
70°	1065.8	1078.9	1105.4	1129.4	1169.1	1225.7	1271.8	1394.5	1512.9	1546.8	1527.6
72.5°	671.8	684.6	729.1	756.7	793.9	844.8	891.2	1002.2	1111.3	1145.1	1110.2
75°	237.9	249.1	290.4	328.8	369.0	428.4	491.2	588.2	701.0	743.0	693.4
77.5°	93.2	95.2	102.8	107.8	123.6	148.6	185.0	239.5	329.3	368.8	328.4
80°	81.8	85.6	90.2	93.2	93.4	91.8	90.2	94.8	114.6	128.1	111.6
82.5°	70.8	75.1	83.8	89.3	90.0	87.7	85.2	82.0	79.2	75.8	81.5
85°	52.0	63.0	75.1	82.4	83.8	82.0	81.0	77.6	71.9	65.1	73.8
87.5°	21.0	32.2	58.9	69.9	69.4	63.5	65.3	66.4	58.9	43.2	62.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P156919

CATALOG NUMBER: UTLD-E02-LED-E-U-5MQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	55.7	55.7	55.7	55.7	55.7	55.7	55.7	55.7
2.5°	69.0	62.3	59.8	56.8	56.2	55.5	55.5	55.2
5°	85.6	89.3	87.0	74.9	60.7	59.6	56.8	56.6
7.5°	67.8	67.6	77.6	85.9	79.9	60.0	59.4	59.0
10°	75.6	97.0	98.6	101.8	126.3	106.6	90.4	88.1
12.5°	147.3	121.2	106.0	109.1	116.5	126.3	96.6	92.7
15°	155.7	156.0	170.5	153.2	150.5	168.3	137.7	142.5
17.5°	198.7	197.0	196.4	165.6	162.1	161.2	165.3	155.3
20°	228.3	217.4	260.8	272.0	248.4	240.2	244.8	242.5
22.5°	306.0	313.5	291.6	289.8	284.8	313.0	321.0	309.2
25°	321.8	355.8	390.2	390.9	375.6	364.0	382.0	366.7
27.5°	422.9	414.7	426.3	417.6	460.8	449.4	448.5	432.9
30°	458.7	475.8	500.7	498.0	512.8	505.8	498.2	524.2
32.5°	544.4	545.1	566.8	620.6	642.1	659.0	645.8	653.0
35°	665.4	701.2	711.8	708.3	713.1	735.0	718.1	717.9
37.5°	764.5	764.2	758.5	750.3	761.7	778.2	781.4	766.8
40°	811.9	811.5	814.7	820.0	837.8	848.0	865.8	841.6
42.5°	878.4	875.0	887.3	900.6	915.9	925.9	952.8	926.6
45°	965.0	963.1	973.4	983.4	996.2	1001.3	1037.4	1038.5
47.5°	1064.0	1068.9	1055.9	1066.8	1080.5	1091.6	1136.2	1142.6
50°	1183.4	1194.9	1163.8	1173.2	1190.6	1215.7	1250.4	1275.0
52.5°	1350.8	1343.3	1319.6	1312.5	1347.2	1391.9	1426.2	1466.4
55°	1567.6	1541.3	1514.8	1501.8	1540.2	1599.9	1634.9	1687.0
57.5°	1803.6	1758.4	1688.3	1698.4	1717.3	1766.8	1785.6	1867.4
60°	1992.7	1917.6	1808.4	1783.1	1776.2	1802.7	1854.1	1895.2
62.5°	2066.5	1946.6	1789.0	1753.4	1696.8	1719.8	1756.2	1788.3
65°	1984.4	1829.9	1672.6	1608.9	1543.8	1565.9	1585.2	1605.2
67.5°	1762.1	1611.2	1465.9	1379.2	1320.5	1322.5	1348.3	1346.8
70°	1434.9	1289.0	1166.8	1095.3	1036.6	1026.2	1040.8	1053.0
72.5°	1008.6	890.3	800.6	732.3	669.0	663.6	647.4	663.6
75°	580.0	466.7	394.6	323.1	258.5	245.2	222.8	226.5
77.5°	237.9	166.5	128.8	104.2	95.9	93.6	95.0	94.0
80°	96.4	88.4	86.6	86.3	87.9	89.1	89.5	85.4
82.5°	86.1	85.8	84.5	83.8	84.2	84.7	79.2	75.8
85°	80.6	80.4	78.8	77.6	77.9	75.4	67.4	59.8
87.5°	71.7	67.6	64.6	68.5	69.9	64.1	43.0	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)