

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: P156925

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156925
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4647.8 lumens
Efficiency: N/A
Efficacy: 84.5 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

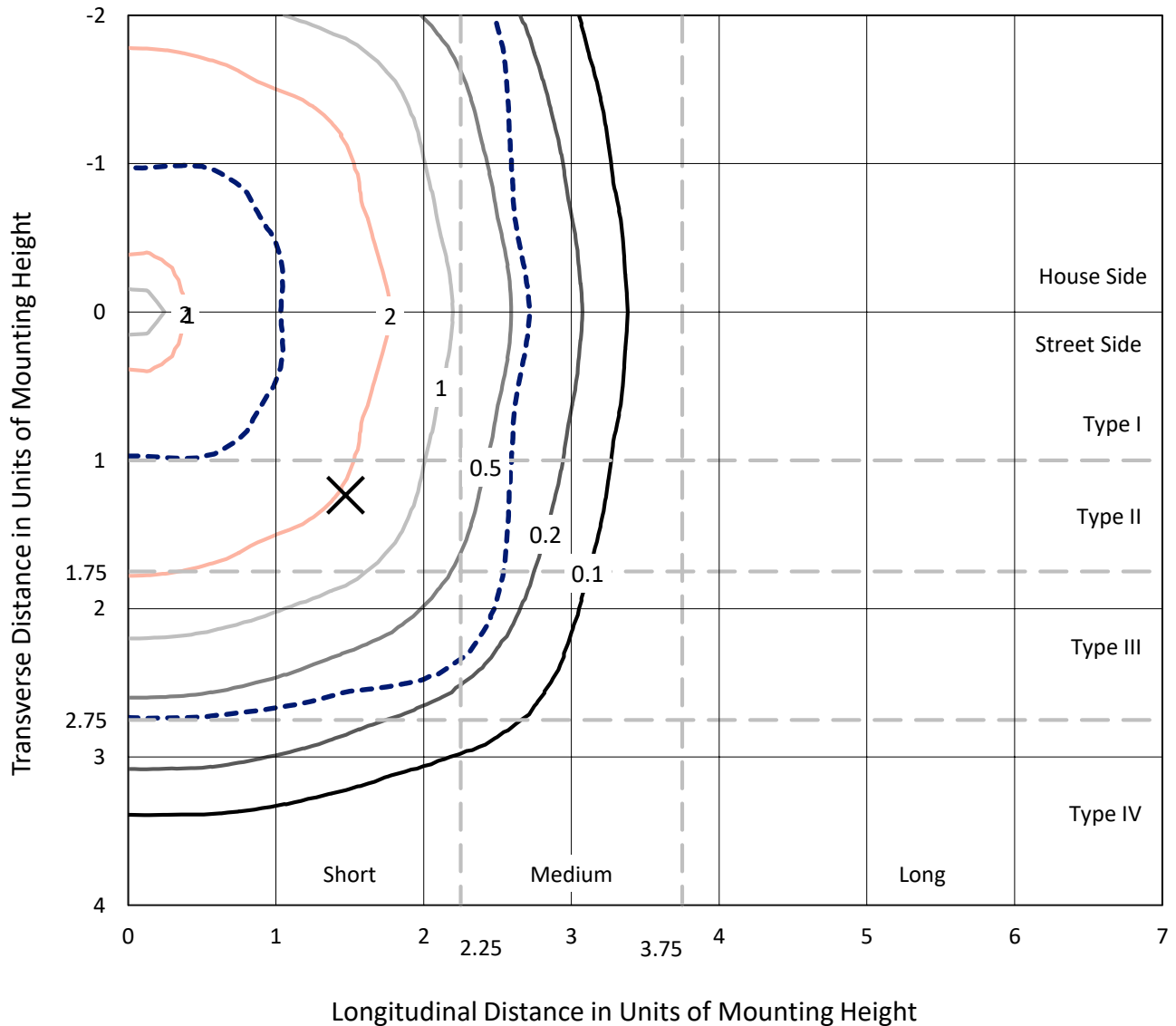


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

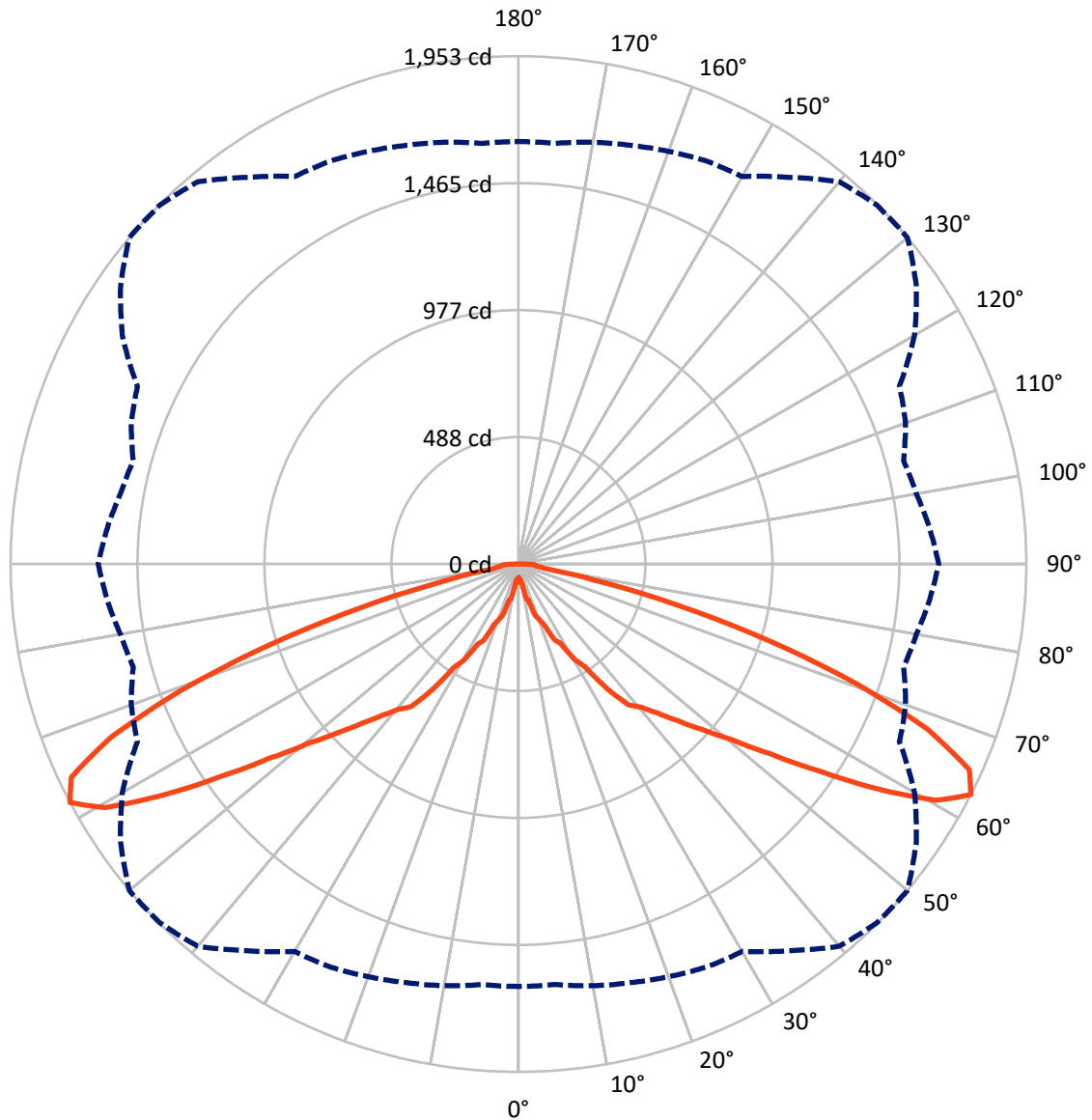


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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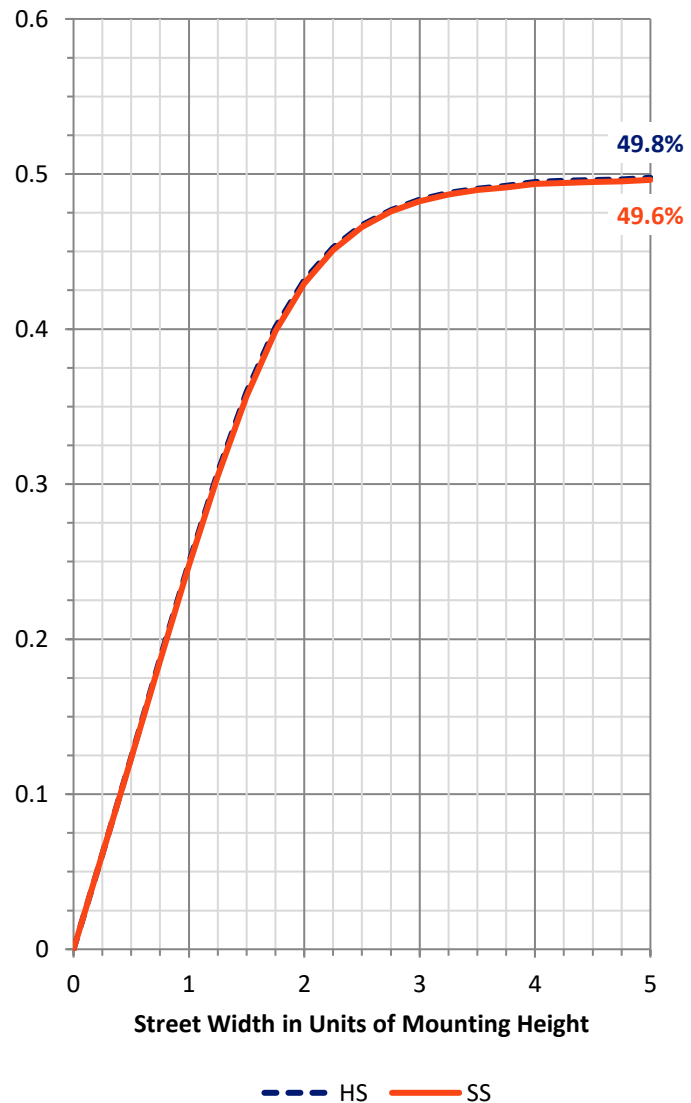
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2323.9	0.0	2323.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2323.9	0.0	2323.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	4647.8	0.0	4647.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	0.2
10°-20°	44.8	1.0
20°-30°	149.0	3.2
30°-40°	381.3	8.2
40°-50°	706.7	15.2
50°-60°	1284.0	27.6
60°-70°	1513.5	32.6
70°-80°	496.4	10.7
80°-90°	65.1	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°	4647.8	100.0
0°-180°	4647.8	100.0



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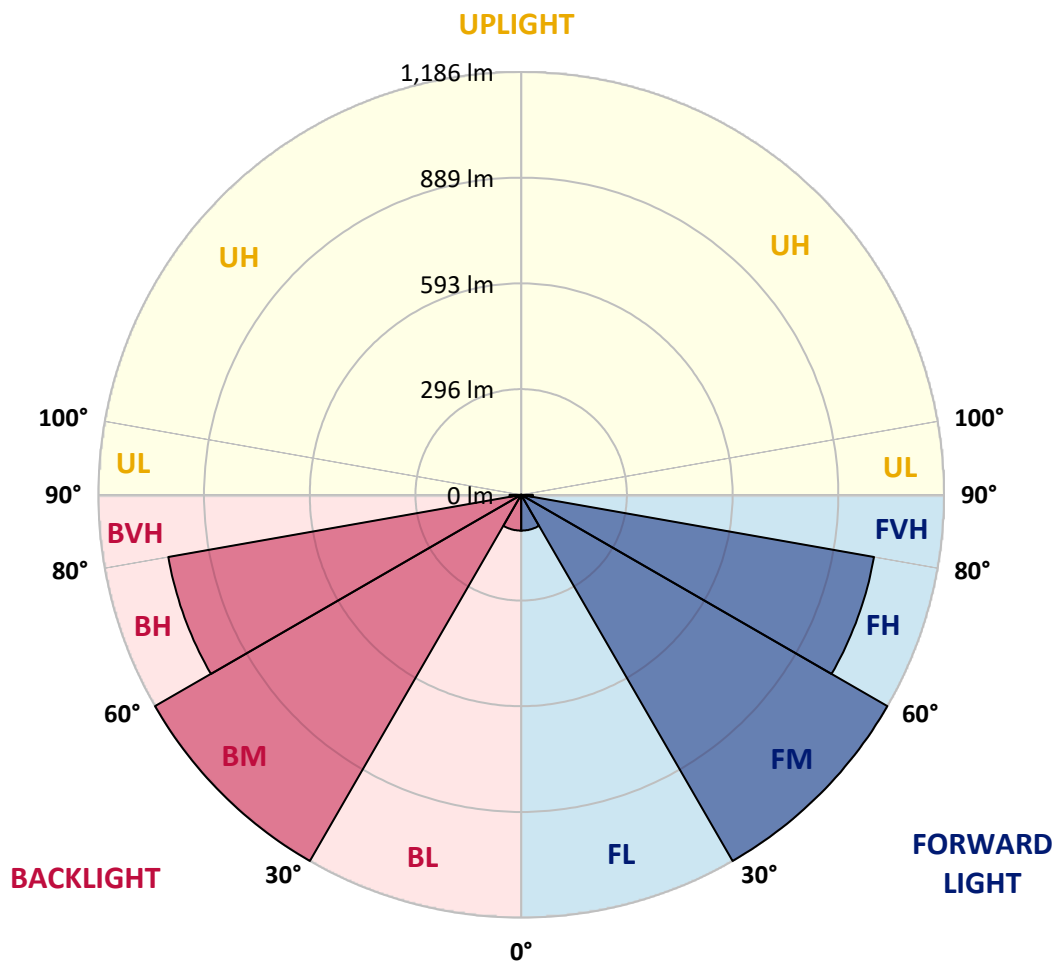
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	100.4	2.2			
FM (30°-60°)	1186.0	25.5			
FH (60°-80°)	1004.9	21.6			G1/1800
FVH (80°-90°)	32.5	0.7			G1/100
BL (0°-30°)	100.4	2.2	B0/110		
BM (30°-60°)	1186.0	25.5	B2/2500		
BH (60°-80°)	1004.9	21.6	B3/2500		G1/1800
BVH (80°-90°)	32.5	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°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
2.5°	80.5	80.5	80.5	80.9	81.7	81.1	79.6	79.0	70.8	70.0	61.7
5°	59.0	59.2	59.6	59.4	59.6	61.3	60.2	61.3	59.9	61.9	71.8
7.5°	95.8	97.0	96.4	95.6	94.7	90.4	79.9	70.8	62.5	61.7	61.1
10°	102.8	103.2	102.8	102.4	102.1	102.1	101.8	98.6	97.6	95.4	81.5
12.5°	146.6	147.6	146.7	145.7	145.3	127.7	118.5	107.8	104.4	133.1	136.2
15°	155.2	156.9	155.2	154.2	153.8	151.3	149.2	172.4	170.1	145.1	144.2
17.5°	202.2	202.4	201.4	200.8	195.5	185.8	190.5	186.0	182.5	181.6	206.2
20°	231.6	227.8	220.8	210.3	204.3	227.8	230.5	223.7	207.6	218.2	226.6
22.5°	264.2	264.6	263.2	256.3	255.5	269.6	247.3	252.2	262.1	247.5	253.4
25°	326.0	325.9	321.0	297.8	293.2	288.1	287.5	294.5	279.4	301.1	322.8
27.5°	355.8	351.7	345.7	336.0	351.1	342.8	336.6	310.6	354.2	333.7	346.1
30°	435.5	433.0	421.6	415.4	411.6	383.6	373.4	397.3	386.7	390.9	424.3
32.5°	566.3	566.7	548.1	515.7	472.2	469.7	455.1	441.7	455.7	449.5	471.0
35°	685.2	669.5	630.5	618.9	596.0	585.7	570.2	548.8	558.9	555.8	591.5
37.5°	738.4	737.6	716.1	701.1	691.2	654.8	643.5	657.1	648.4	640.0	687.6
40°	852.4	850.5	827.2	804.7	781.6	727.5	710.0	698.4	689.3	691.2	723.2
42.5°	922.1	924.2	899.2	879.2	843.3	802.4	774.0	768.0	752.4	752.1	783.6
45°	1000.5	999.7	981.4	954.5	917.8	885.4	846.6	842.9	829.3	828.6	859.6
47.5°	1090.5	1087.6	1072.4	1048.2	1014.8	970.0	939.0	931.4	921.3	915.5	952.2
50°	1213.1	1212.5	1193.7	1164.0	1137.0	1093.2	1055.2	1036.6	1032.5	1025.1	1061.2
52.5°	1375.0	1371.8	1362.7	1323.8	1299.4	1229.6	1190.2	1174.1	1180.7	1173.7	1212.5
55°	1550.4	1542.5	1538.6	1503.3	1484.7	1417.6	1371.8	1364.8	1372.2	1378.4	1408.1
57.5°	1689.8	1685.3	1691.3	1668.8	1642.6	1600.1	1555.3	1575.7	1598.4	1607.5	1634.7
60°	1719.6	1722.5	1735.5	1737.1	1733.0	1724.5	1695.8	1744.3	1808.9	1830.6	1846.1
62.5°	1625.0	1623.8	1647.2	1667.2	1689.2	1710.7	1720.8	1815.5	1919.2	1951.1	1953.4
65°	1457.8	1459.4	1487.8	1508.4	1535.7	1570.6	1630.2	1732.8	1874.2	1914.0	1905.7
67.5°	1235.4	1245.5	1268.2	1302.7	1326.8	1367.3	1438.0	1539.2	1673.5	1710.5	1699.3
70°	963.4	975.2	999.1	1020.8	1056.7	1107.8	1149.6	1260.4	1367.5	1398.0	1380.7
72.5°	607.2	618.7	659.0	684.0	717.6	763.6	805.5	905.8	1004.5	1035.0	1003.4
75°	215.0	225.2	262.5	297.2	333.5	387.2	443.9	531.6	633.6	671.6	626.8
77.5°	84.2	86.1	92.9	97.4	111.6	134.4	167.2	216.5	297.6	333.3	296.8
80°	73.9	77.4	81.5	84.2	84.4	83.0	81.5	85.6	103.6	115.8	100.9
82.5°	64.0	67.9	75.8	80.7	81.3	79.2	77.0	74.1	71.6	68.5	73.6
85°	47.0	57.0	67.9	74.5	75.7	74.1	73.3	70.2	65.0	58.8	66.7
87.5°	19.0	29.1	53.2	63.2	62.7	57.4	59.0	60.0	53.2	39.0	56.6
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°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
2.5°	62.3	56.4	54.1	51.4	50.8	50.2	50.2	50.0
5°	77.4	80.7	78.6	67.7	54.9	53.8	51.4	51.2
7.5°	61.3	61.1	70.2	77.6	72.2	54.3	53.7	53.2
10°	68.3	87.7	89.2	92.1	114.1	96.4	81.7	79.6
12.5°	133.1	109.6	95.8	98.6	105.3	114.1	87.3	83.8
15°	140.8	141.0	154.2	138.5	136.0	152.1	124.4	128.8
17.5°	179.6	178.1	177.5	149.6	146.6	145.7	149.4	140.3
20°	206.4	196.5	235.7	245.8	224.5	217.1	221.2	219.2
22.5°	276.5	283.4	263.5	261.9	257.3	283.0	290.2	279.4
25°	290.8	321.5	352.7	353.3	339.5	329.0	345.3	331.4
27.5°	382.2	374.8	385.3	377.5	416.5	406.2	405.3	391.3
30°	414.6	430.1	452.6	450.1	463.5	457.1	450.3	473.8
32.5°	492.0	492.6	512.2	560.9	580.4	595.6	583.6	590.2
35°	601.4	633.8	643.3	640.2	644.5	664.3	649.1	648.9
37.5°	691.0	690.8	685.6	678.2	688.5	703.3	706.2	693.0
40°	733.9	733.5	736.4	741.1	757.2	766.5	782.6	760.7
42.5°	793.9	790.9	802.0	814.0	827.8	836.9	861.2	837.5
45°	872.2	870.5	879.8	888.8	900.4	905.0	937.6	938.6
47.5°	961.8	966.0	954.3	964.2	976.6	986.7	1027.0	1032.8
50°	1069.6	1080.0	1051.9	1060.4	1076.0	1098.8	1130.2	1152.4
52.5°	1221.0	1214.2	1192.7	1186.3	1217.6	1258.1	1289.0	1325.4
55°	1416.8	1393.1	1369.2	1357.4	1392.1	1446.1	1477.7	1524.8
57.5°	1630.2	1589.3	1526.0	1535.1	1552.2	1597.0	1613.9	1687.8
60°	1801.1	1733.2	1634.6	1611.6	1605.5	1629.4	1675.8	1713.0
62.5°	1867.8	1759.4	1617.0	1584.8	1533.6	1554.5	1587.3	1616.4
65°	1793.6	1654.0	1511.8	1454.1	1395.4	1415.4	1432.7	1450.8
67.5°	1592.6	1456.2	1325.0	1246.5	1193.5	1195.4	1218.6	1217.2
70°	1296.9	1165.0	1054.6	990.0	937.0	927.5	940.7	951.8
72.5°	911.6	804.7	723.6	661.9	604.7	599.7	585.1	599.7
75°	524.2	421.8	356.6	292.0	233.6	221.6	201.4	204.7
77.5°	215.0	150.4	116.4	94.1	86.7	84.6	85.8	85.1
80°	87.1	79.9	78.2	78.0	79.5	80.5	80.9	77.2
82.5°	77.8	77.6	76.4	75.7	76.2	76.6	71.6	68.6
85°	72.8	72.6	71.2	70.2	70.4	68.1	60.9	54.1
87.5°	64.8	61.1	58.4	61.9	63.2	58.0	38.8	31.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)