

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: P156951

Luminaire Tested: **UTLD-E02-LED-E-U-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156951
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33665)
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-5WQ-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5798.4 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-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

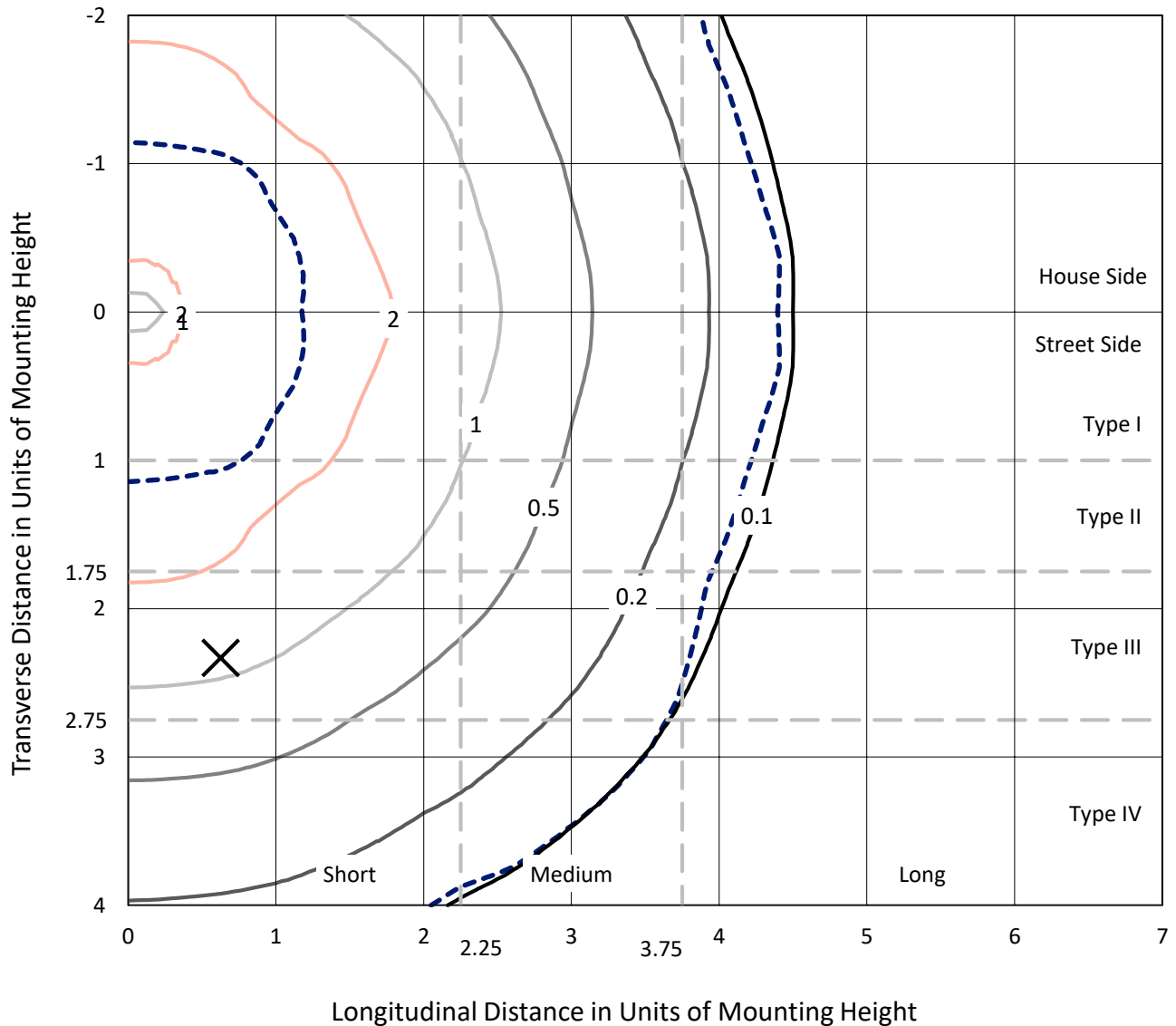


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

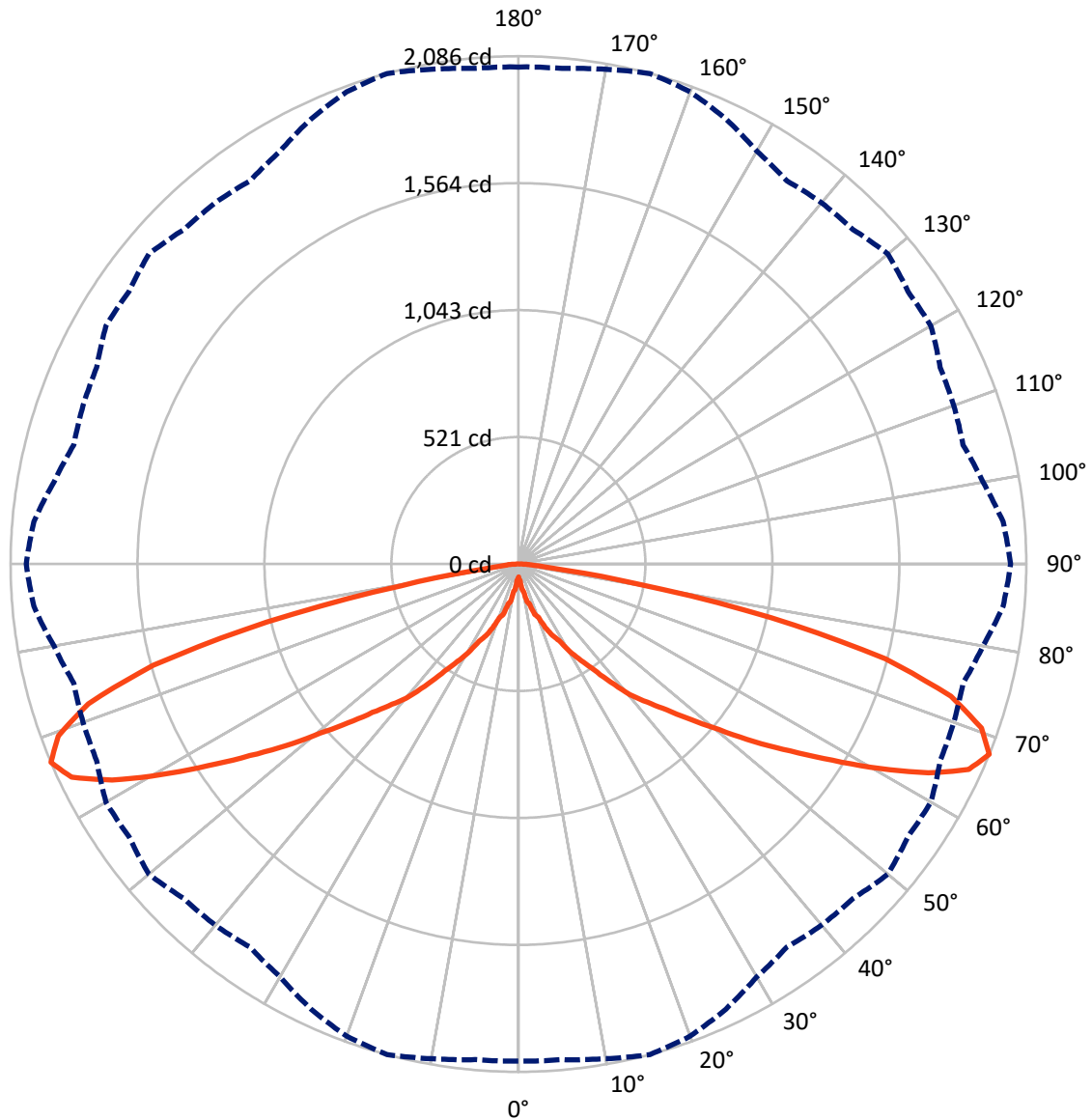


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 15-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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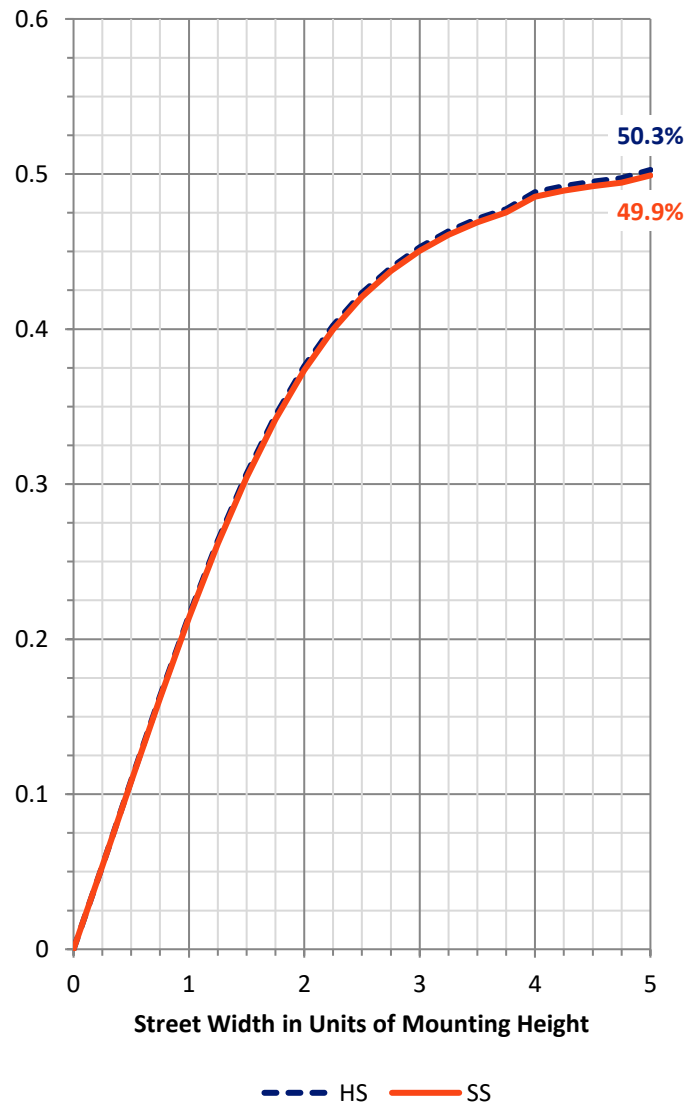
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2899.2	0.0	2899.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2899.2	0.0	2899.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	5798.4	0.0	5798.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.7	0.1
10°-20°	48.0	0.8
20°-30°	158.7	2.7
30°-40°	343.1	5.9
40°-50°	642.0	11.1
50°-60°	1164.7	20.1
60°-70°	1842.4	31.8
70°-80°	1448.7	25.0
80°-90°	143.1	2.5
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°	5798.4	100.0
0°-180°	5798.4	100.0



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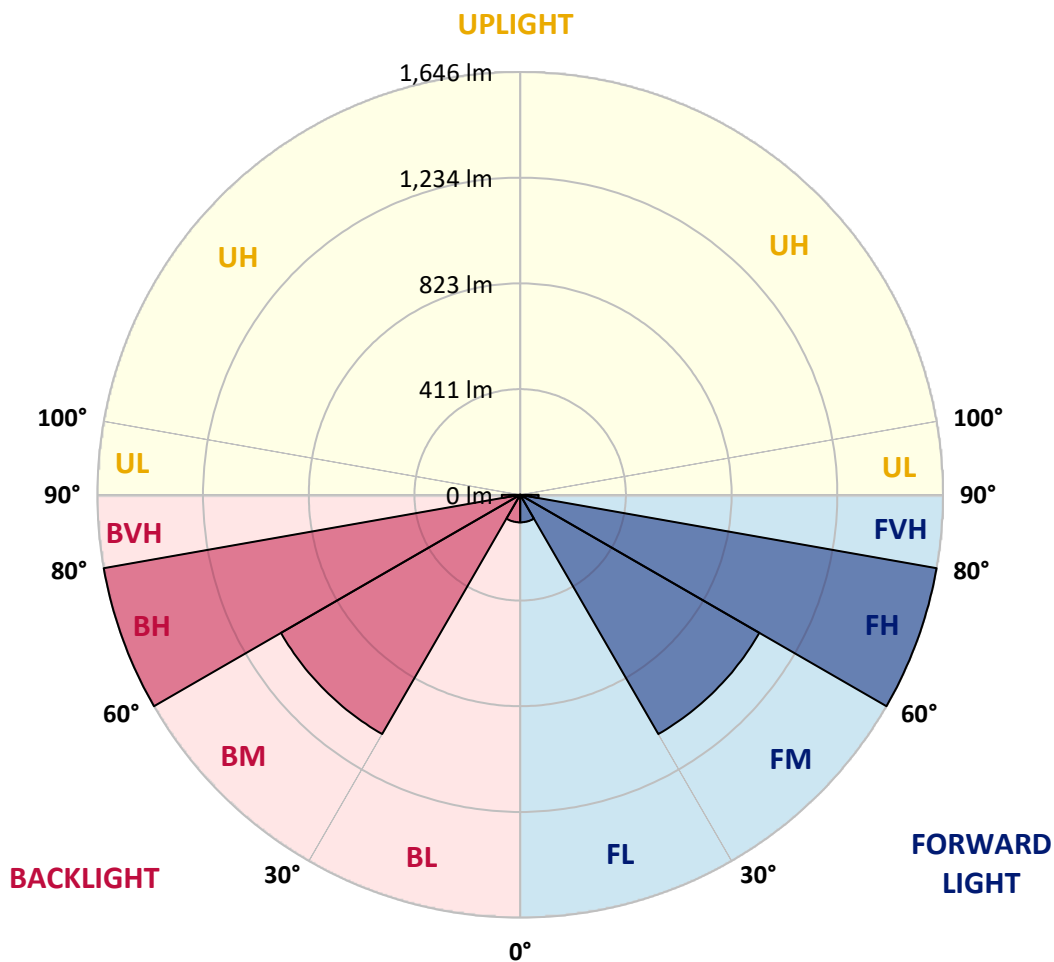
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	107.2	1.8			
FM	(30°-60°)	1075.0	18.5			
FH	(60°-80°)	1645.5	28.4			G1/1800
FVH	(80°-90°)	71.6	1.2			G1/100
BL	(0°-30°)	107.2	1.8	B0/110		
BM	(30°-60°)	1075.0	18.5	B2/2500		
BH	(60°-80°)	1645.5	28.4	B3/2500		G1/1800
BVH	(80°-90°)	71.6	1.2			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°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	83.6	83.4	83.4	83.4	84.4	81.8	78.0	75.2	73.4	73.1	71.3
5°	66.2	66.0	65.9	66.2	65.9	66.7	66.4	68.2	68.0	72.6	78.8
7.5°	106.2	106.7	106.5	105.2	102.6	95.2	89.5	84.9	71.3	69.5	67.4
10°	115.0	115.0	114.9	113.2	113.4	113.4	112.4	110.3	108.8	105.4	89.8
12.5°	159.0	159.6	159.8	158.8	155.5	140.1	135.7	120.8	117.8	137.8	142.1
15°	171.9	172.6	172.1	169.3	168.2	166.5	163.7	176.0	179.9	164.2	152.6
17.5°	220.1	220.8	219.8	218.0	213.7	200.4	204.5	200.6	198.3	195.0	206.2
20°	253.4	255.0	243.5	233.2	226.8	237.0	249.4	244.2	230.6	232.2	238.8
22.5°	289.4	289.4	288.3	283.0	282.9	296.5	274.0	269.3	286.0	266.3	258.8
25°	349.3	347.9	344.8	324.0	317.4	315.8	311.4	320.9	307.8	334.0	349.4
27.5°	371.5	369.9	362.2	355.8	372.4	367.1	360.7	336.3	387.1	362.2	370.5
30°	428.9	428.9	422.2	417.9	421.7	397.4	389.2	417.9	409.7	413.0	450.0
32.5°	503.8	504.4	495.6	471.2	448.9	453.3	449.4	451.5	464.4	461.0	482.5
35°	586.4	565.6	551.5	533.1	520.5	514.8	507.4	491.2	510.0	505.9	528.2
37.5°	634.6	636.7	625.2	614.4	606.2	570.3	554.9	561.3	562.0	551.5	590.3
40°	734.2	735.2	718.3	705.7	692.3	646.7	622.1	616.0	617.4	619.0	646.2
42.5°	799.8	799.8	786.5	775.2	752.1	722.1	697.0	684.4	687.2	684.2	713.4
45°	877.3	878.9	868.4	854.2	829.4	812.2	775.0	766.2	767.3	762.4	794.7
47.5°	975.8	975.6	971.4	955.8	935.3	905.5	879.6	858.1	860.4	857.3	890.9
50°	1091.2	1091.2	1088.7	1069.0	1056.9	1025.4	991.7	965.0	963.8	964.0	1002.3
52.5°	1220.0	1221.6	1225.4	1211.8	1193.6	1150.0	1109.8	1081.8	1080.2	1083.0	1127.9
55°	1363.7	1370.9	1369.8	1354.7	1343.2	1294.2	1240.6	1214.1	1207.0	1212.6	1257.2
57.5°	1524.8	1528.4	1532.5	1520.7	1492.4	1448.6	1375.7	1353.9	1342.2	1353.7	1400.6
60°	1703.4	1711.8	1710.8	1705.2	1673.1	1624.8	1525.3	1504.5	1497.9	1503.5	1555.0
62.5°	1891.1	1891.4	1902.2	1889.8	1859.3	1811.3	1698.2	1661.8	1652.3	1656.9	1712.3
65°	2022.4	2024.0	2036.0	2033.2	2009.6	1958.1	1874.7	1814.1	1815.2	1821.1	1872.4
67.5°	2041.4	2043.2	2063.0	2085.8	2063.2	2016.6	1957.8	1921.1	1936.8	1942.9	1981.2
70°	1965.0	1968.8	1992.4	2017.1	2012.4	1976.8	1924.5	1911.6	1927.3	1940.4	1976.5
72.5°	1815.2	1817.2	1834.7	1857.2	1839.3	1808.3	1748.5	1770.0	1767.7	1784.9	1820.6
75°	1540.7	1533.5	1551.2	1557.1	1526.6	1494.5	1445.2	1480.4	1465.3	1479.9	1498.1
77.5°	1035.4	1028.2	1035.1	1060.5	1038.9	1035.9	1023.0	1062.3	1068.7	1077.9	1079.2
80°	400.2	414.3	450.4	490.7	502.3	532.8	557.4	602.3	632.3	657.0	644.4
82.5°	79.0	86.7	104.9	127.2	152.4	183.2	220.4	258.6	295.8	315.3	299.9
85°	28.7	34.6	43.9	51.6	54.4	58.5	65.4	78.8	91.8	94.4	95.4
87.5°	7.7	13.4	24.9	33.6	33.9	30.5	32.3	33.8	29.7	23.6	32.0
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°	53.4	53.4	53.4	53.4	53.4	53.4	53.4	53.4
2.5°	69.2	64.1	59.0	56.2	55.2	54.1	53.4	52.8
5°	80.0	83.1	79.5	73.1	64.2	59.0	55.4	54.4
7.5°	68.2	68.2	78.7	82.4	73.1	65.4	57.7	56.4
10°	76.9	84.2	91.8	100.3	113.4	102.6	86.4	83.6
12.5°	139.8	118.8	101.8	101.9	115.4	116.7	93.6	90.8
15°	148.5	149.3	156.0	141.6	138.8	150.6	134.4	129.3
17.5°	188.0	185.5	180.9	159.6	148.8	152.6	154.4	149.3
20°	218.6	207.5	258.3	263.2	240.4	241.2	237.3	233.0
22.5°	301.4	303.7	285.2	284.8	267.3	297.6	327.6	314.5
25°	318.3	334.8	390.7	381.7	371.0	355.3	363.2	344.8
27.5°	414.6	404.3	415.1	404.3	433.2	418.9	410.2	405.8
30°	435.6	454.3	465.3	456.9	458.9	456.9	442.0	449.4
32.5°	498.2	489.7	506.6	520.5	529.7	531.8	506.7	521.2
35°	539.7	561.5	559.8	554.8	559.2	567.4	554.1	554.6
37.5°	597.2	602.6	598.2	596.9	599.2	603.8	605.9	598.2
40°	649.8	653.6	650.3	654.9	658.5	660.6	678.0	651.0
42.5°	723.7	718.1	722.9	729.1	727.8	727.5	743.4	729.0
45°	806.8	805.5	801.6	805.8	815.8	800.9	826.0	821.9
47.5°	903.2	903.2	896.6	900.4	916.6	905.3	927.4	934.3
50°	1015.3	1018.2	999.7	1010.0	1014.0	1016.6	1037.9	1056.9
52.5°	1140.8	1143.4	1117.7	1123.6	1120.5	1140.0	1163.4	1192.8
55°	1277.2	1272.9	1240.8	1251.6	1252.9	1286.5	1300.9	1349.4
57.5°	1413.2	1411.9	1389.9	1389.6	1409.4	1444.5	1456.6	1510.9
60°	1563.0	1563.3	1536.1	1542.2	1560.4	1594.8	1640.5	1685.9
62.5°	1718.0	1729.5	1706.2	1688.2	1708.2	1752.6	1821.3	1856.2
65°	1856.8	1880.1	1841.9	1841.6	1818.8	1891.6	1945.0	1988.1
67.5°	1952.6	1955.8	1911.1	1902.6	1890.4	1937.3	1997.8	2021.4
70°	1952.7	1921.4	1877.8	1871.4	1850.8	1869.1	1942.4	1956.3
72.5°	1797.5	1763.6	1704.1	1714.4	1691.0	1716.7	1774.7	1781.4
75°	1474.5	1429.1	1388.6	1405.0	1392.2	1438.6	1488.6	1477.6
77.5°	1051.5	995.6	942.7	942.2	943.5	955.0	989.7	973.8
80°	606.7	553.3	502.3	470.8	438.4	412.2	396.8	376.6
82.5°	267.0	215.0	175.7	141.6	120.3	97.2	85.4	73.4
85°	84.4	69.0	59.0	53.9	49.2	46.2	40.0	34.4
87.5°	38.0	37.2	34.9	35.9	35.9	31.0	21.6	17.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)