

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: P156921

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156921
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-7050
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5777.1 lumens
Efficiency: N/A
Efficacy: 110.9 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

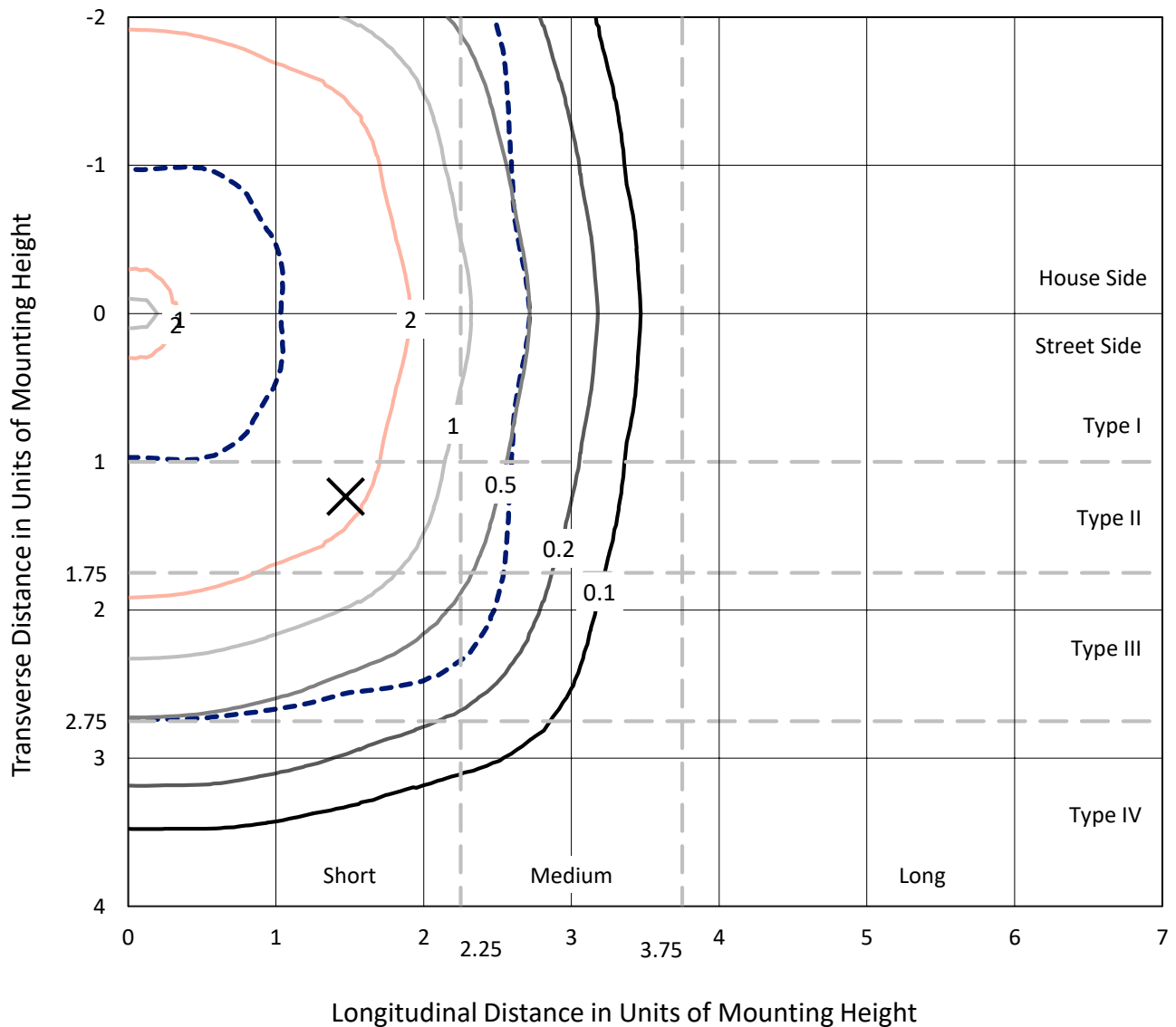
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

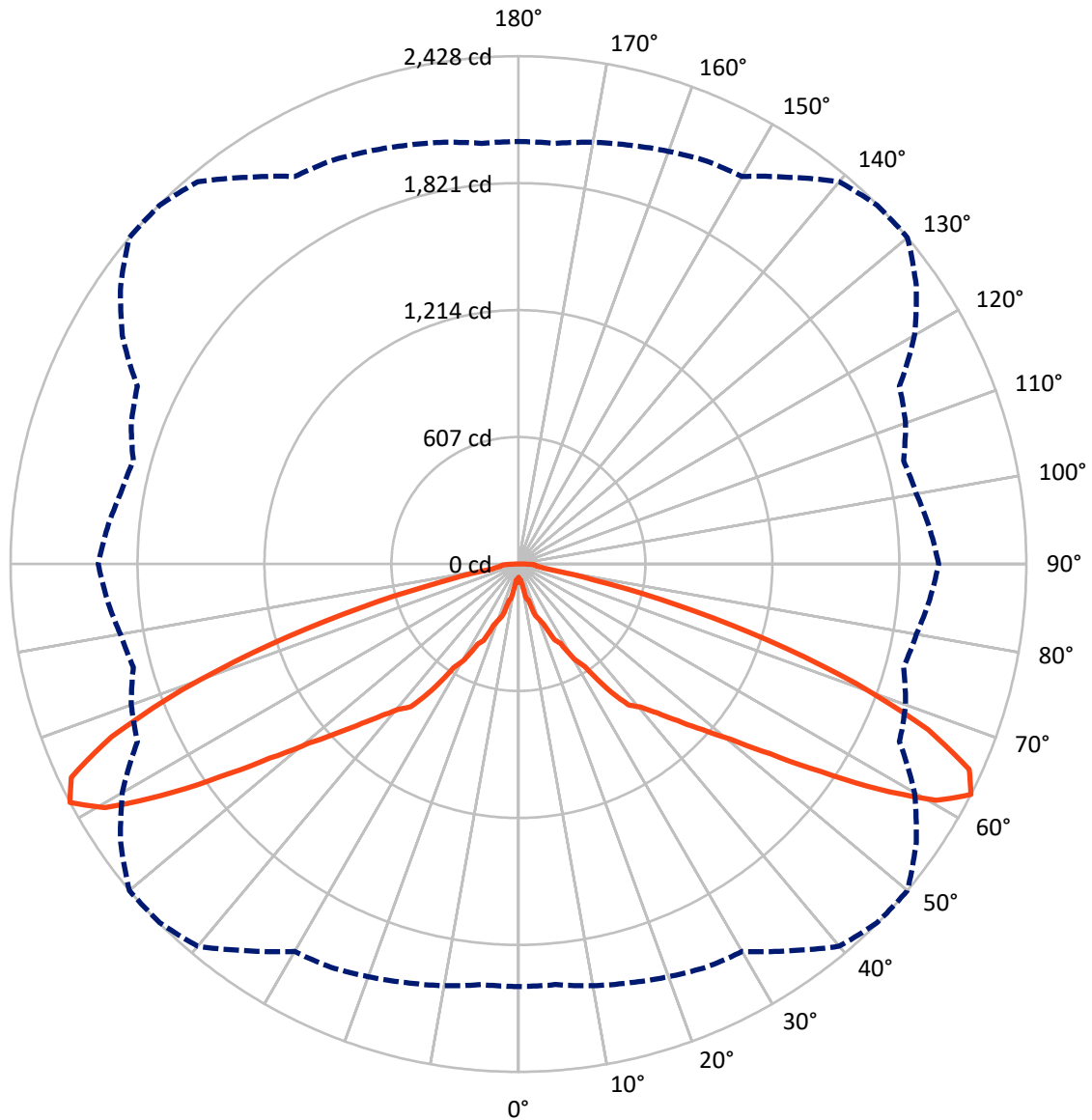


Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - Full Cutoff

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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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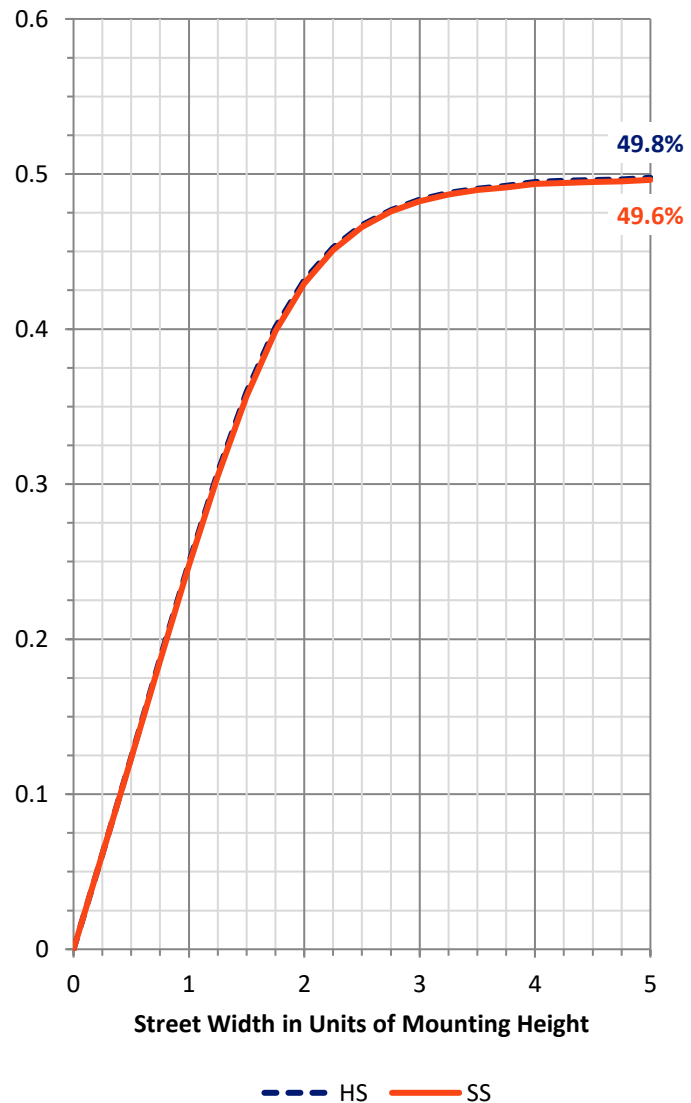
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2888.5	0.0	2888.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2888.5	0.0	2888.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5777.1	0.0	5777.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.2
10°-20°	55.6	1.0
20°-30°	185.2	3.2
30°-40°	474.0	8.2
40°-50°	878.4	15.2
50°-60°	1595.9	27.6
60°-70°	1881.2	32.6
70°-80°	617.0	10.7
80°-90°	80.9	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°	5777.1	100.0
0°-180°	5777.1	100.0



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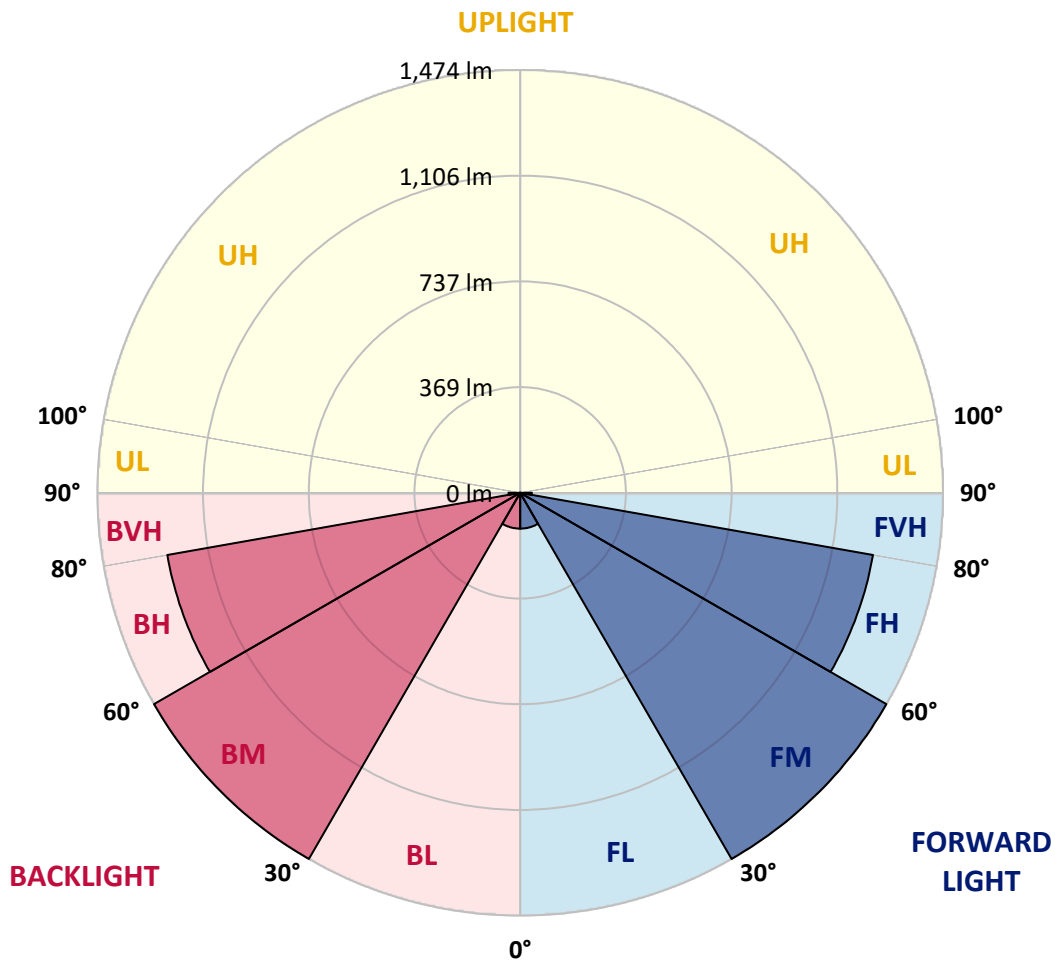
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	124.8	2.2			
FM	(30°-60°)	1474.1	25.5			
FH	(60°-80°)	1249.1	21.6			G1/1800
FVH	(80°-90°)	40.5	0.7			G1/100
BL	(0°-30°)	124.8	2.2	B1/500		
BM	(30°-60°)	1474.1	25.5	B2/2500		
BH	(60°-80°)	1249.1	21.6	B3/2500		G1/1800
BVH	(80°-90°)	40.5	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°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	100.1	100.1	100.1	100.6	101.6	100.8	99.1	98.3	87.9	87.0	76.7
5°	73.4	73.6	74.1	73.9	74.2	76.2	74.9	76.2	74.4	77.0	89.3
7.5°	119.0	120.6	119.8	118.8	117.8	112.4	99.3	88.0	77.7	76.7	75.9
10°	127.8	128.3	127.8	127.2	127.0	127.0	126.5	122.6	121.3	118.5	101.3
12.5°	182.2	183.4	182.4	181.1	180.6	158.8	147.2	133.9	129.8	165.5	169.3
15°	192.9	195.0	192.9	191.6	191.1	188.0	185.5	214.2	211.4	180.4	179.3
17.5°	251.4	251.7	250.4	249.6	242.9	230.9	236.8	231.2	226.8	225.7	256.2
20°	287.8	283.2	274.5	261.4	254.0	283.2	286.5	278.1	258.0	271.2	281.7
22.5°	328.4	328.9	327.1	318.6	317.6	335.0	307.3	313.5	325.8	307.6	315.0
25°	405.4	405.0	398.9	370.2	364.5	358.1	357.3	366.1	347.3	374.3	401.2
27.5°	442.2	437.1	429.7	417.6	436.4	426.1	418.4	386.1	440.2	414.8	430.2
30°	541.3	538.2	524.1	516.4	511.5	476.9	464.0	493.8	480.7	485.8	527.4
32.5°	703.9	704.4	681.3	641.0	587.0	583.9	565.6	549.0	566.4	558.7	585.4
35°	851.6	832.2	783.7	769.3	740.8	728.0	708.8	682.1	694.7	690.8	735.2
37.5°	917.8	916.8	890.2	871.4	859.1	814.0	799.8	816.8	806.0	795.5	854.8
40°	1059.4	1057.2	1028.1	1000.2	971.5	904.3	882.4	868.1	856.8	859.1	898.9
42.5°	1146.2	1148.7	1117.7	1092.8	1048.2	997.4	962.0	954.5	935.3	934.8	974.0
45°	1243.6	1242.6	1219.8	1186.4	1140.8	1100.5	1052.3	1047.6	1030.7	1030.0	1068.4
47.5°	1355.5	1351.9	1332.9	1302.9	1261.3	1205.6	1167.2	1157.7	1145.1	1137.9	1183.6
50°	1507.9	1507.1	1483.8	1446.8	1413.2	1358.8	1311.6	1288.5	1283.4	1274.1	1319.0
52.5°	1709.0	1705.1	1693.8	1645.4	1615.1	1528.4	1479.4	1459.4	1467.6	1458.9	1507.1
55°	1927.0	1917.3	1912.4	1868.5	1845.4	1762.1	1705.2	1696.4	1705.6	1713.3	1750.3
57.5°	2100.4	2094.8	2102.2	2074.3	2041.7	1988.8	1933.2	1958.6	1986.8	1998.1	2032.0
60°	2137.4	2141.0	2157.1	2159.2	2154.1	2143.6	2107.9	2168.1	2248.4	2275.4	2294.6
62.5°	2019.9	2018.4	2047.3	2072.2	2099.7	2126.4	2138.9	2256.6	2385.4	2425.2	2428.0
65°	1812.1	1813.9	1849.3	1875.0	1908.8	1952.2	2026.3	2153.8	2329.5	2379.0	2368.8
67.5°	1535.6	1548.1	1576.4	1619.2	1649.2	1699.5	1787.5	1913.2	2080.2	2126.0	2112.2
70°	1197.4	1212.1	1241.9	1268.8	1313.4	1377.0	1428.8	1566.6	1699.8	1737.7	1716.2
72.5°	754.7	769.1	819.1	850.1	891.9	949.2	1001.2	1125.9	1248.5	1286.5	1247.2
75°	267.3	279.9	326.3	369.4	414.5	481.2	551.8	660.8	787.5	834.7	779.1
77.5°	104.6	107.0	115.4	121.1	138.8	167.0	207.8	269.1	369.9	414.3	368.9
80°	91.8	96.2	101.3	104.6	104.9	103.1	101.3	106.5	128.8	143.9	125.4
82.5°	79.6	84.4	94.1	100.3	101.1	98.5	95.7	92.1	89.0	85.1	91.6
85°	58.4	70.8	84.4	92.6	94.2	92.1	91.0	87.2	80.8	73.1	82.8
87.5°	23.6	36.2	66.2	78.5	78.0	71.3	73.4	74.6	66.2	48.5	70.3
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°	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
2.5°	77.5	70.0	67.2	63.9	63.1	62.4	62.4	62.1
5°	96.2	100.3	97.7	84.2	68.2	67.0	63.8	63.6
7.5°	76.2	75.9	87.2	96.4	89.8	67.4	66.7	66.2
10°	84.9	109.0	110.8	114.4	141.9	119.8	101.6	99.0
12.5°	165.5	136.2	119.0	122.6	130.8	141.8	108.5	104.2
15°	175.0	175.2	191.6	172.1	169.0	189.0	154.7	160.0
17.5°	223.2	221.4	220.6	186.0	182.1	181.1	185.7	174.5
20°	256.5	244.2	293.0	305.5	279.1	269.9	275.0	272.4
22.5°	343.7	352.2	327.6	325.6	319.9	351.7	360.7	347.3
25°	361.5	399.6	438.4	439.2	422.0	408.9	429.2	412.0
27.5°	475.1	465.8	479.0	469.2	517.6	504.8	503.8	486.4
30°	515.4	534.6	562.6	559.5	576.2	568.2	559.8	589.0
32.5°	611.6	612.3	636.7	697.2	721.3	740.3	725.4	733.7
35°	747.5	787.8	799.6	795.7	801.2	825.8	806.8	806.5
37.5°	858.8	858.6	852.2	843.0	855.8	874.2	877.8	861.4
40°	912.2	911.7	915.3	921.2	941.2	952.8	972.8	945.6
42.5°	986.9	983.0	996.9	1011.7	1028.9	1040.2	1070.5	1041.0
45°	1084.1	1082.0	1093.6	1104.8	1119.2	1124.9	1165.4	1166.6
47.5°	1195.4	1200.8	1186.2	1198.5	1213.8	1226.4	1276.5	1283.6
50°	1329.6	1342.4	1307.5	1318.0	1337.5	1365.8	1404.8	1432.4
52.5°	1517.6	1509.1	1482.5	1474.5	1513.5	1563.8	1602.3	1647.4
55°	1761.0	1731.6	1701.8	1687.2	1730.3	1797.5	1836.7	1895.2
57.5°	2026.3	1975.5	1896.8	1908.0	1929.3	1985.0	2006.0	2097.8
60°	2238.7	2154.3	2031.7	2003.2	1995.5	2025.3	2083.0	2129.1
62.5°	2321.6	2186.9	2009.9	1969.8	1906.2	1932.2	1972.9	2009.1
65°	2229.5	2055.8	1879.1	1807.5	1734.4	1759.3	1780.8	1803.4
67.5°	1979.6	1810.0	1646.9	1549.4	1483.5	1485.8	1514.8	1513.0
70°	1612.0	1448.1	1310.9	1230.6	1164.6	1152.8	1169.2	1183.1
72.5°	1133.1	1000.2	899.4	822.7	751.6	745.4	727.2	745.4
75°	651.6	524.4	443.3	363.0	290.4	275.5	250.4	254.5
77.5°	267.3	187.0	144.7	117.0	107.7	105.2	106.7	105.7
80°	108.2	99.3	97.2	97.0	98.8	100.1	100.6	95.9
82.5°	96.7	96.4	94.9	94.2	94.6	95.2	89.0	85.2
85°	90.6	90.3	88.5	87.2	87.5	84.6	75.7	67.2
87.5°	80.5	75.9	72.6	77.0	78.5	72.1	48.2	39.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)