

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: P156935

Luminaire Tested: **UTLD-F03-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156935
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-F03-LED-E-U-5MQ
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6971.7 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 78.3
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

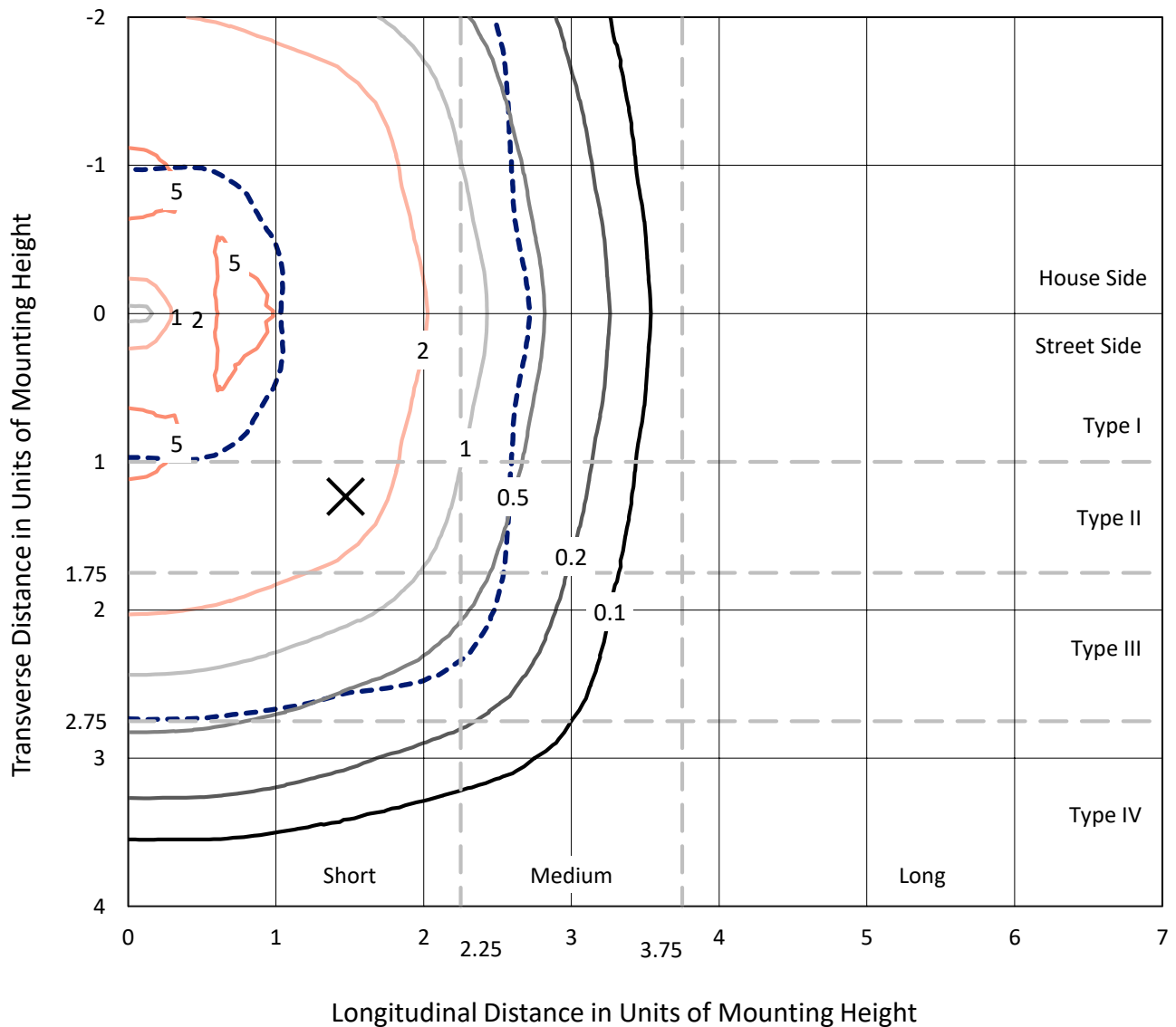


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

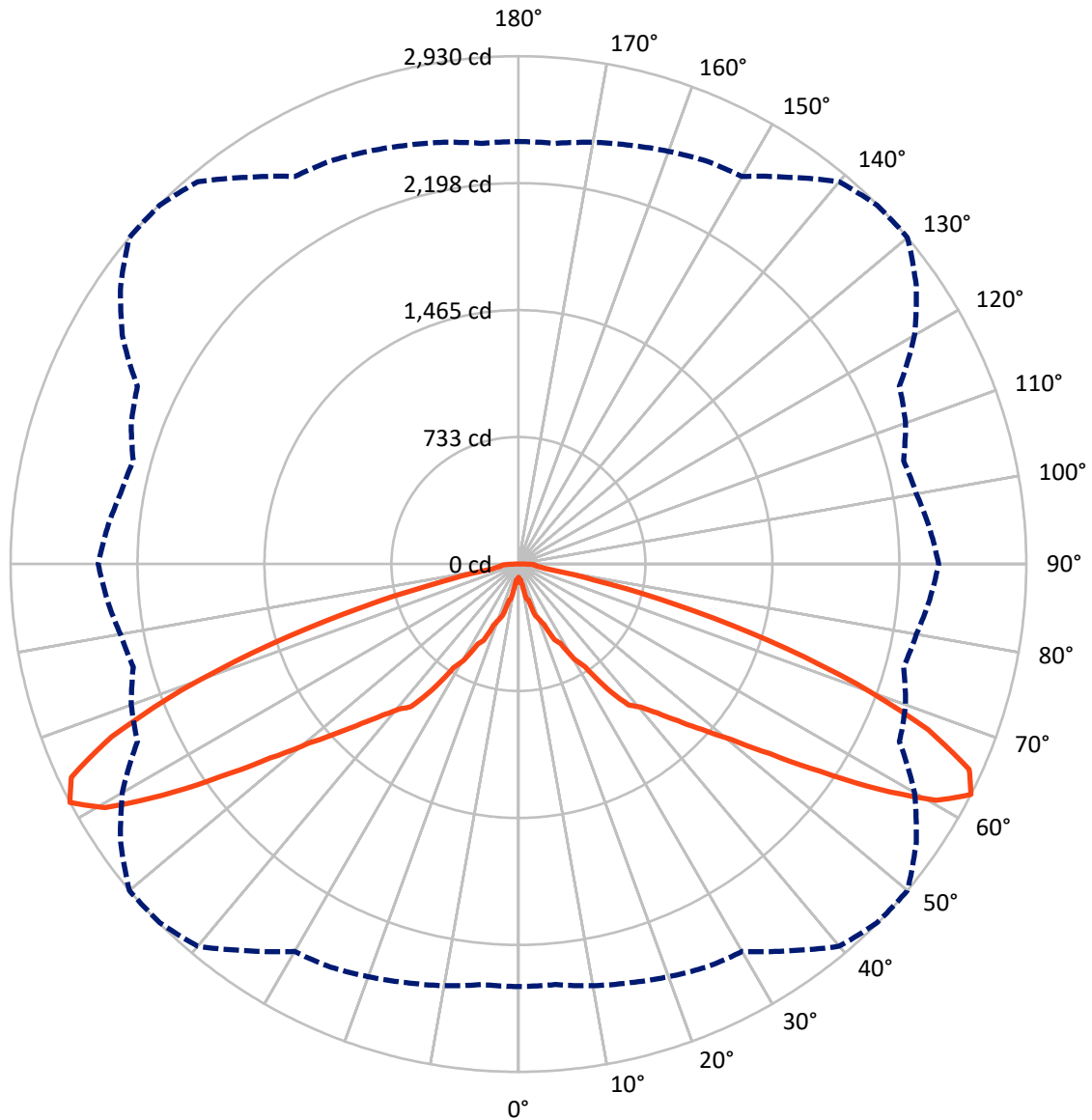


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Full Cutoff

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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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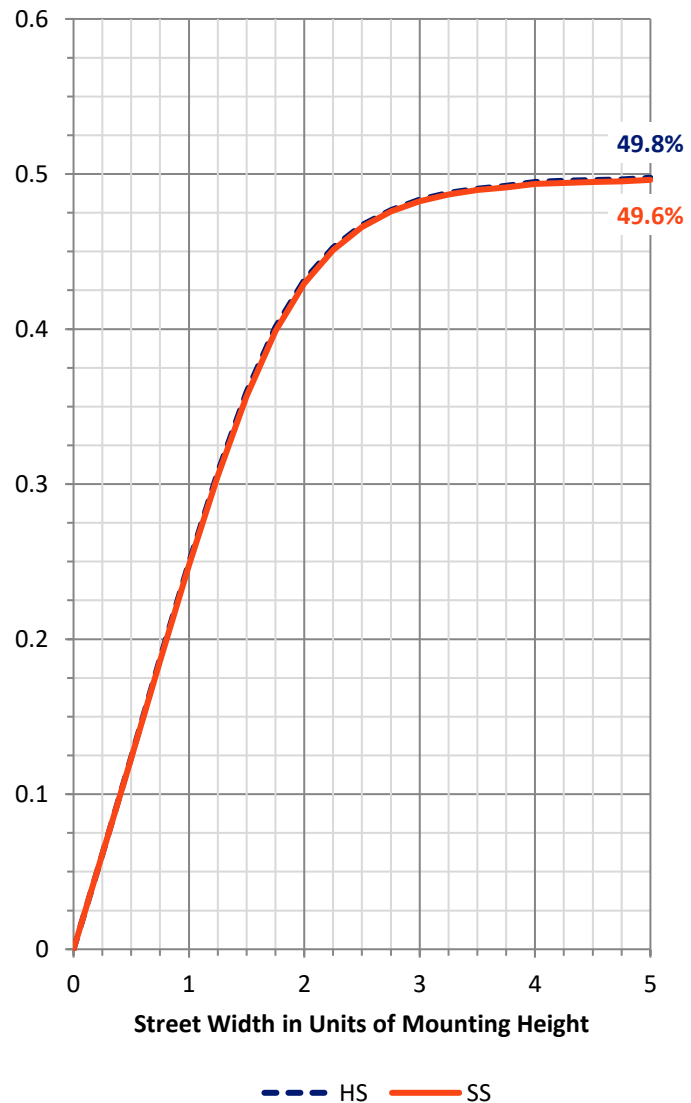
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3485.8	0.0	3485.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3485.8	0.0	3485.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6971.7	0.0	6971.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.6	0.2
10°-20°	67.2	1.0
20°-30°	223.5	3.2
30°-40°	572.0	8.2
40°-50°	1060.0	15.2
50°-60°	1926.0	27.6
60°-70°	2270.2	32.6
70°-80°	744.6	10.7
80°-90°	97.6	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°	6971.7	100.0
0°-180°	6971.7	100.0



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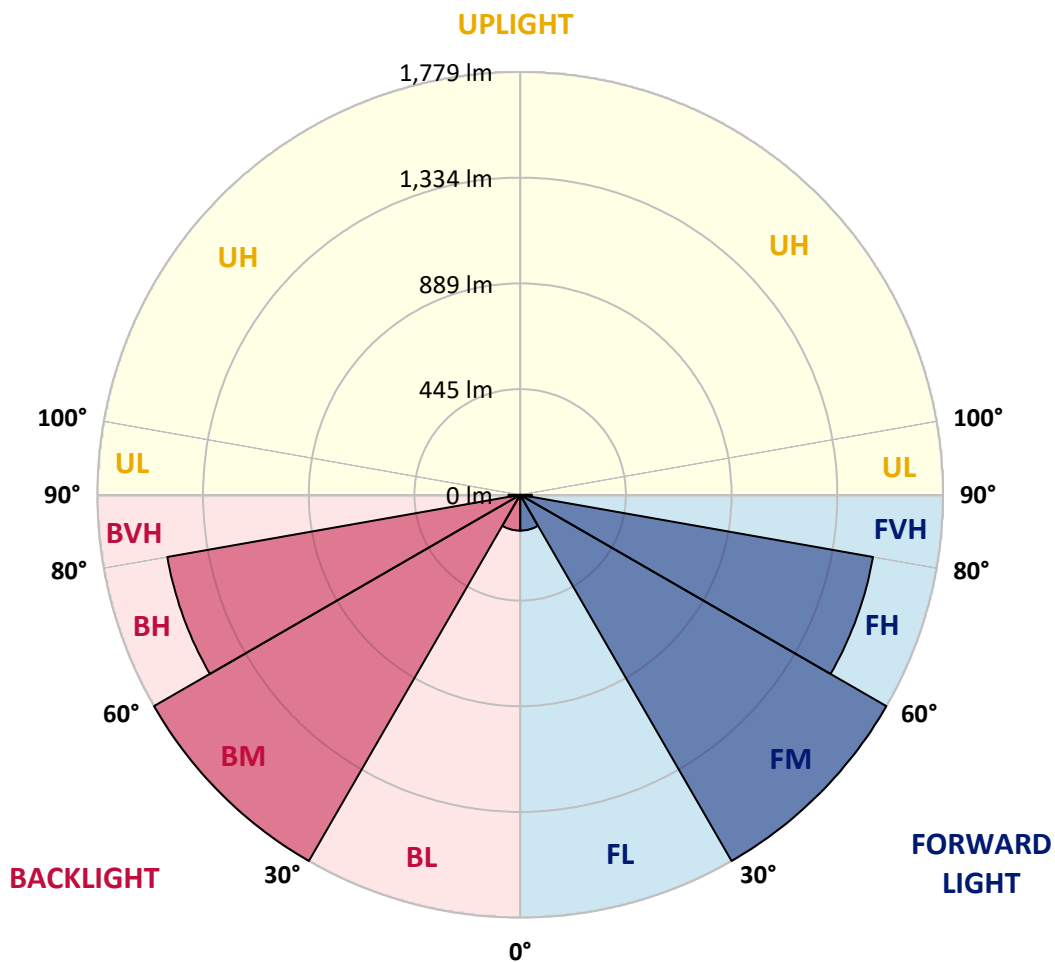
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	150.6	2.2			
FM	(30°-60°)	1779.0	25.5			
FH	(60°-80°)	1507.4	21.6			G1/1800
FVH	(80°-90°)	48.8	0.7			G1/100
BL	(0°-30°)	150.6	2.2	B1/500		
BM	(30°-60°)	1779.0	25.5	B2/2500		
BH	(60°-80°)	1507.4	21.6	B3/2500		G1/1800
BVH	(80°-90°)	48.8	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°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2.5°	120.7	120.7	120.7	121.4	122.6	121.6	119.5	118.6	106.2	105.0	92.6
5°	88.6	88.9	89.5	89.2	89.5	92.0	90.4	92.0	89.8	92.9	107.8
7.5°	143.6	145.5	144.6	143.3	142.1	135.6	119.8	106.2	93.8	92.6	91.6
10°	154.1	154.8	154.2	153.6	153.2	153.2	152.6	148.0	146.4	143.0	122.3
12.5°	219.8	221.4	220.1	218.6	218.0	191.6	177.7	161.6	156.6	199.7	204.3
15°	232.8	235.3	232.8	231.2	230.6	226.9	223.8	258.5	255.1	217.6	216.4
17.5°	303.4	303.7	302.2	301.2	293.2	278.6	285.8	278.9	273.6	272.4	309.2
20°	347.4	341.8	331.2	315.5	306.4	341.8	345.8	335.6	311.4	327.2	339.9
22.5°	396.2	396.9	394.7	384.5	383.2	404.3	370.9	378.3	393.2	371.2	380.2
25°	489.2	488.8	481.4	446.7	439.9	432.2	431.2	441.8	419.2	451.6	484.2
27.5°	533.7	527.5	518.6	504.0	526.6	514.2	504.9	465.9	531.2	500.6	519.2
30°	653.2	649.5	632.4	623.2	617.3	575.5	560.0	595.9	580.1	586.4	636.5
32.5°	849.4	850.1	822.2	773.7	708.3	704.6	682.6	662.5	683.5	674.2	706.4
35°	1027.8	1004.2	945.8	928.4	894.0	878.6	855.4	823.2	838.3	833.7	887.2
37.5°	1107.6	1106.4	1074.2	1051.6	1036.8	982.3	965.2	985.7	972.7	960.0	1031.5
40°	1278.5	1275.7	1240.8	1207.0	1172.3	1091.2	1064.9	1047.6	1034.0	1036.8	1084.7
42.5°	1383.2	1386.2	1348.8	1318.8	1264.9	1203.6	1160.9	1151.9	1128.7	1128.1	1175.4
45°	1500.8	1499.6	1472.0	1431.8	1376.6	1328.0	1269.8	1264.3	1243.8	1243.0	1289.4
47.5°	1635.8	1631.4	1608.6	1572.3	1522.1	1455.0	1408.6	1397.1	1382.0	1373.2	1428.4
50°	1819.6	1818.7	1790.6	1746.0	1705.4	1639.8	1582.9	1555.0	1548.8	1537.6	1591.8
52.5°	2062.4	2057.7	2044.1	1985.6	1949.0	1844.4	1785.3	1761.2	1771.0	1760.6	1818.7
55°	2325.5	2313.7	2307.9	2254.9	2227.0	2126.4	2057.7	2047.2	2058.4	2067.6	2112.2
57.5°	2534.8	2528.0	2536.9	2503.2	2463.9	2400.1	2332.9	2363.6	2397.6	2411.2	2452.1
60°	2579.4	2583.7	2603.2	2605.7	2599.5	2586.8	2543.8	2616.5	2713.4	2745.9	2769.1
62.5°	2437.6	2435.7	2470.7	2500.8	2533.8	2566.0	2581.2	2723.3	2878.7	2926.7	2930.1
65°	2186.8	2189.0	2231.7	2262.7	2303.5	2355.8	2445.3	2599.2	2811.2	2871.0	2858.6
67.5°	1853.1	1868.3	1902.3	1954.0	1990.2	2050.9	2157.1	2308.8	2510.4	2565.7	2549.0
70°	1445.1	1462.7	1498.6	1531.1	1585.0	1661.8	1724.3	1890.6	2051.2	2097.0	2071.0
72.5°	910.8	928.1	988.5	1025.9	1076.4	1145.4	1208.3	1358.7	1506.7	1552.5	1505.1
75°	322.6	337.7	393.8	445.8	500.2	580.8	665.9	797.4	950.4	1007.4	940.2
77.5°	126.3	129.1	139.3	146.1	167.5	201.5	250.8	324.8	446.4	500.0	445.2
80°	110.8	116.1	122.3	126.3	126.6	124.5	122.3	128.5	155.4	173.6	151.4
82.5°	96.0	101.8	113.6	121.0	122.0	118.9	115.5	111.1	107.4	102.8	110.5
85°	70.6	85.4	101.9	111.8	113.6	111.1	109.9	105.2	97.5	88.2	100.0
87.5°	28.5	43.7	79.9	94.7	94.1	86.0	88.6	90.1	79.9	58.5	84.8
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°	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
2.5°	93.5	84.5	81.1	77.1	76.2	75.2	75.2	74.9
5°	116.1	121.0	118.0	101.5	82.4	80.8	77.1	76.8
7.5°	92.0	91.6	105.2	116.4	108.3	81.4	80.5	79.9
10°	102.5	131.6	133.7	138.1	171.2	144.6	122.6	119.5
12.5°	199.7	164.4	143.6	148.0	157.9	171.2	131.0	125.7
15°	211.1	211.4	231.2	207.7	204.0	228.2	186.7	193.2
17.5°	269.3	267.2	266.2	224.4	219.8	218.6	224.1	210.6
20°	309.6	294.7	353.5	368.7	336.8	325.7	331.9	328.8
22.5°	414.8	425.0	395.3	392.8	386.0	424.4	435.3	419.2
25°	436.2	482.3	529.1	530.0	509.2	493.5	517.9	497.2
27.5°	573.3	562.2	578.0	566.2	624.7	609.2	608.0	587.0
30°	621.9	645.2	678.9	675.2	695.3	685.7	675.5	710.8
32.5°	738.0	739.0	768.3	841.4	870.6	893.4	875.5	885.4
35°	902.1	950.7	964.9	960.3	966.8	996.5	973.6	973.3
37.5°	1036.4	1036.1	1028.4	1017.2	1032.7	1055.0	1059.4	1039.5
40°	1100.8	1100.2	1104.6	1111.6	1135.8	1149.8	1173.9	1141.1
42.5°	1190.9	1186.3	1203.0	1221.0	1241.7	1255.3	1291.8	1256.2
45°	1308.2	1305.8	1319.7	1333.3	1350.6	1357.5	1406.4	1407.9
47.5°	1442.6	1449.1	1431.4	1446.3	1464.9	1480.0	1540.4	1549.1
50°	1604.5	1620.0	1577.9	1590.6	1614.1	1648.2	1695.2	1728.6
52.5°	1831.4	1821.2	1789.0	1779.4	1826.5	1887.2	1933.6	1988.1
55°	2125.2	2089.6	2053.7	2036.0	2088.0	2169.2	2216.5	2287.2
57.5°	2445.3	2384.0	2289.0	2302.6	2328.3	2395.5	2420.8	2531.7
60°	2701.7	2599.8	2451.8	2417.5	2408.2	2444.1	2513.7	2569.4
62.5°	2801.6	2639.1	2425.5	2377.2	2300.4	2331.7	2380.9	2424.6
65°	2690.5	2480.9	2267.6	2181.3	2093.0	2123.0	2149.0	2176.3
67.5°	2389.0	2184.3	1987.5	1869.8	1790.2	1793.0	1828.0	1825.8
70°	1945.4	1747.5	1581.9	1485.0	1405.4	1391.2	1411.1	1427.8
72.5°	1367.4	1207.0	1085.4	992.8	907.0	899.6	877.6	899.6
75°	786.3	632.8	534.9	438.0	350.4	332.5	302.2	307.1
77.5°	322.6	225.7	174.6	141.2	130.0	127.0	128.8	127.6
80°	130.6	119.8	117.3	117.0	119.2	120.7	121.4	115.8
82.5°	116.7	116.4	114.5	113.6	114.2	114.8	107.4	102.8
85°	109.3	109.0	106.8	105.2	105.6	102.2	91.3	81.1
87.5°	97.2	91.6	87.6	92.9	94.7	87.0	58.2	47.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)