

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: P156953

Luminaire Tested: **UTLD-F02-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156953
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-F02-LED-E-U-5WQ-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3937.2 lumens
Efficiency: N/A
Efficacy: 71.6 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): 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

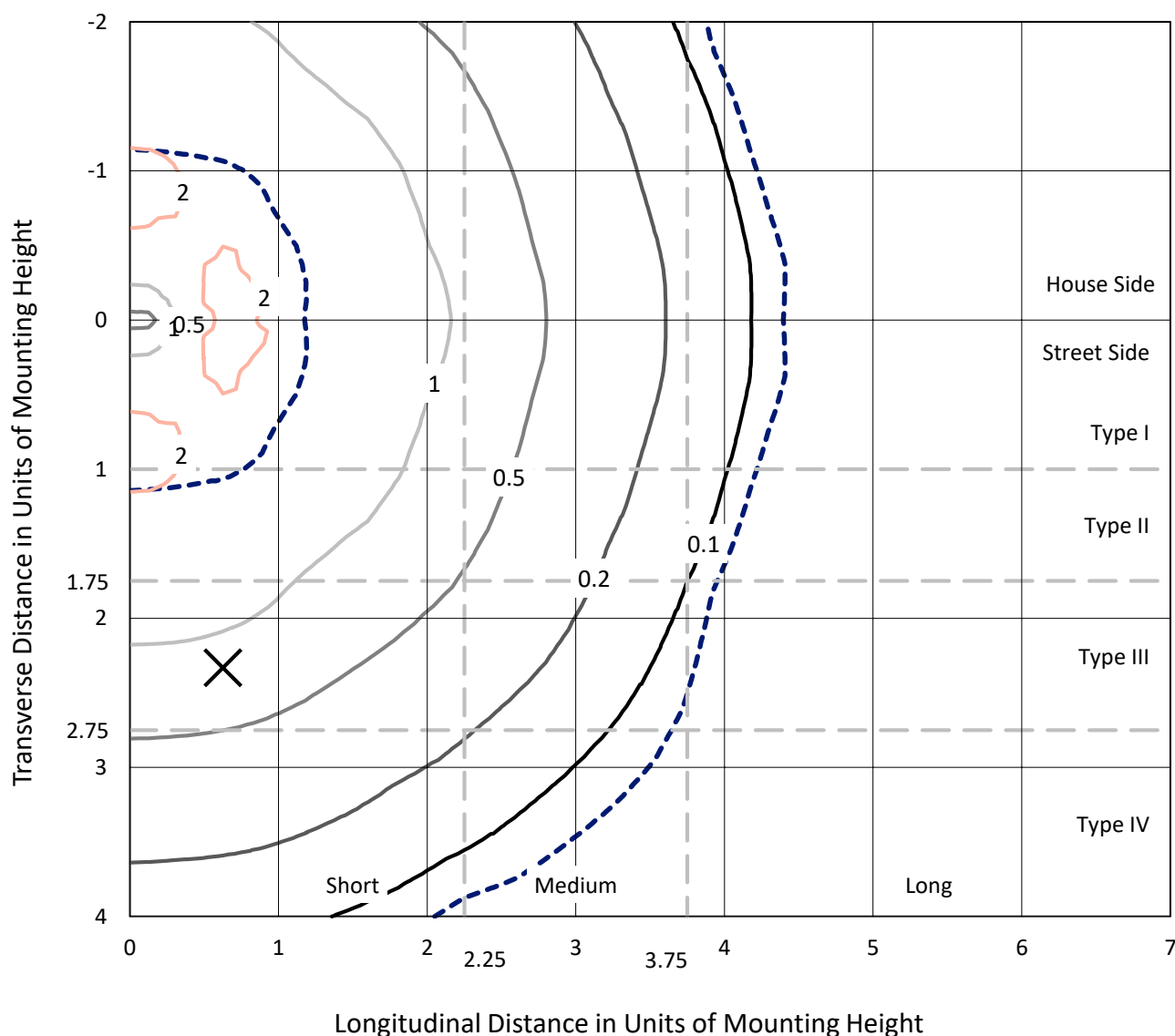


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

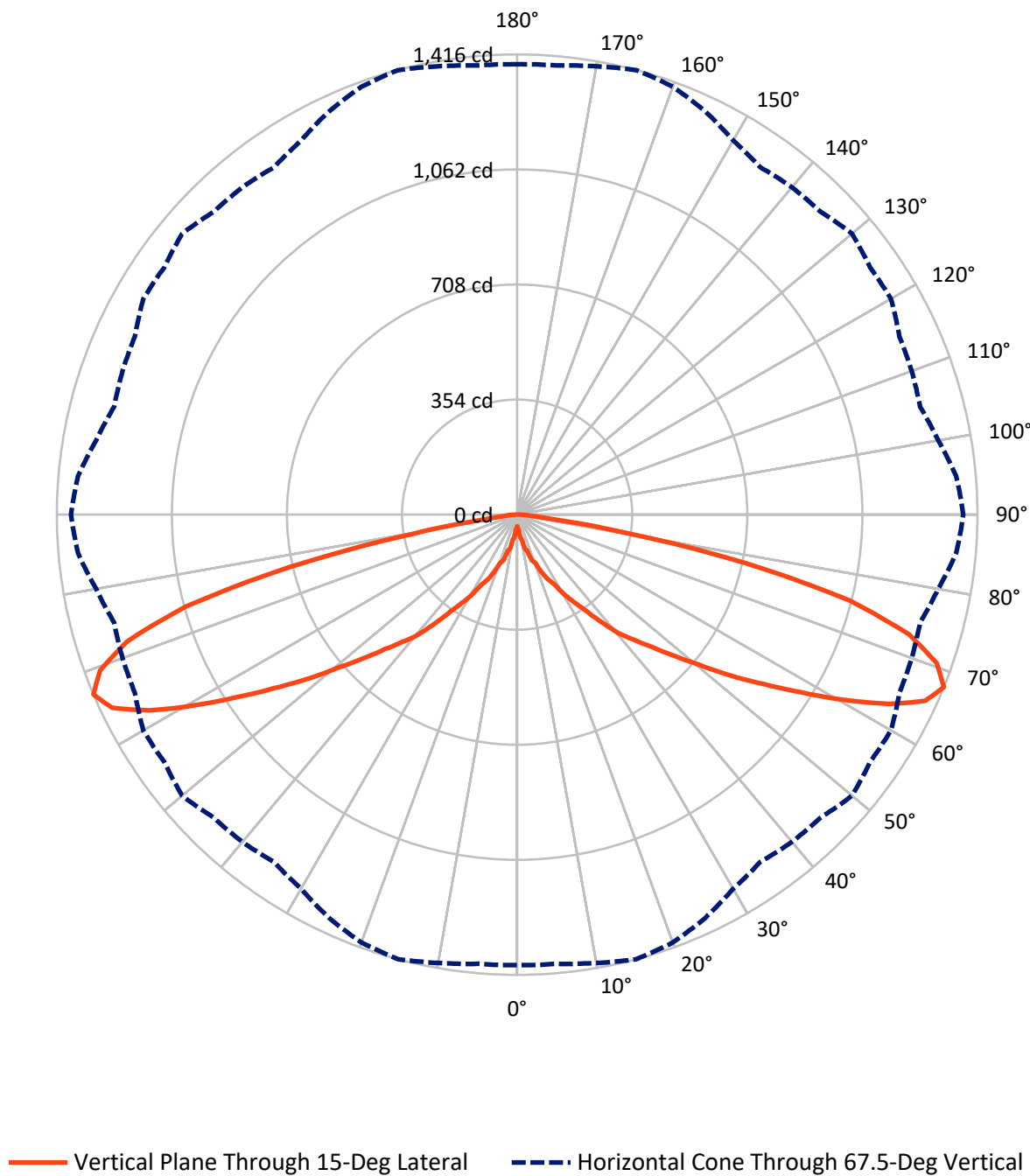


Based on 10 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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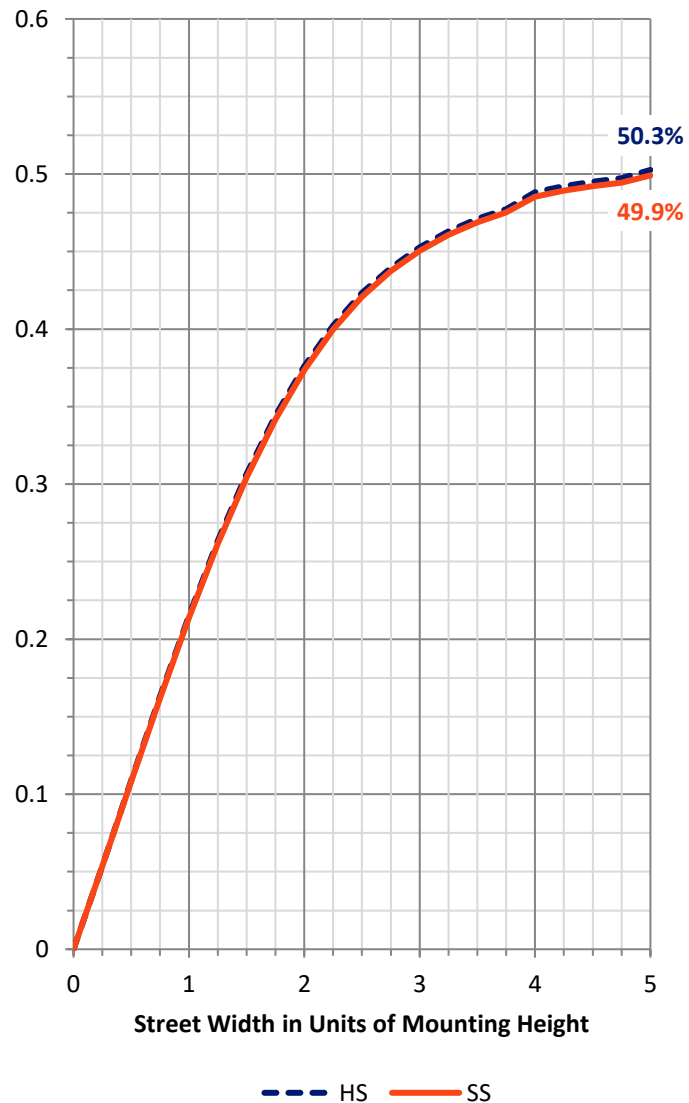
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.6	0.0	1968.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1968.6	0.0	1968.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	3937.2	0.0	3937.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.2	0.1
10°-20°	32.6	0.8
20°-30°	107.7	2.7
30°-40°	233.0	5.9
40°-50°	436.0	11.1
50°-60°	790.9	20.1
60°-70°	1251.0	31.8
70°-80°	983.7	25.0
80°-90°	97.2	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°	3937.2	100.0
0°-180°	3937.2	100.0

Coefficient of Utilization



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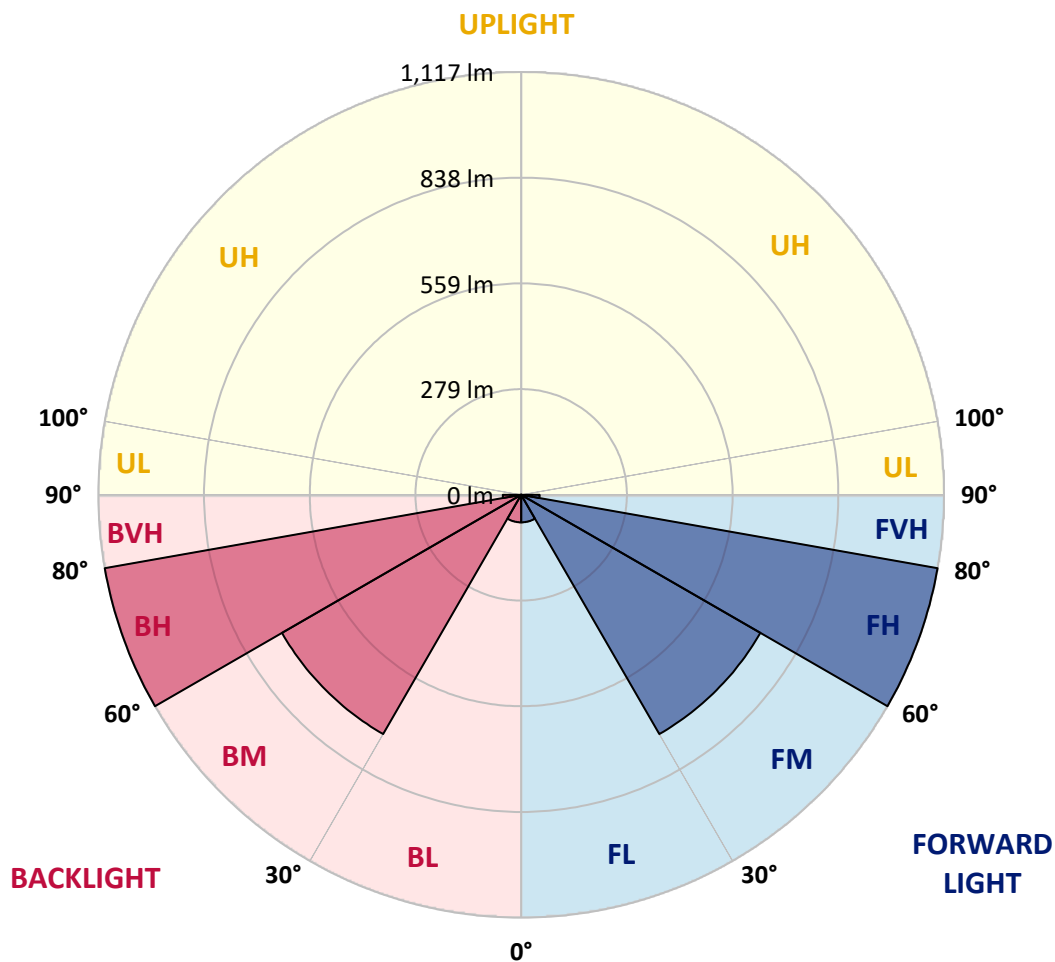
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	72.8	1.8			
FM	(30°-60°)	729.9	18.5			
FH	(60°-80°)	1117.3	28.4			G1/1800
FVH	(80°-90°)	48.6	1.2			G1/100
BL	(0°-30°)	72.8	1.8	B0/110		
BM	(30°-60°)	729.9	18.5	B1/1000		
BH	(60°-80°)	1117.3	28.4	B3/2500		G1/1800
BVH	(80°-90°)	48.6	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°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	56.8	56.6	56.6	56.6	57.3	55.6	53.0	51.0	49.8	49.6	48.4
5°	45.0	44.8	44.8	45.0	44.8	45.3	45.1	46.3	46.2	49.3	53.4
7.5°	72.1	72.4	72.3	71.4	69.6	64.6	60.8	57.6	48.4	47.2	45.8
10°	78.0	78.0	78.0	76.8	77.0	77.0	76.3	74.9	73.8	71.6	61.0
12.5°	108.0	108.3	108.5	107.8	105.6	95.1	92.2	82.1	80.0	93.6	96.5
15°	116.7	117.2	116.9	115.0	114.2	113.0	111.1	119.5	122.1	111.5	103.6
17.5°	149.4	150.0	149.3	148.1	145.1	136.0	138.9	136.2	134.7	132.4	140.0
20°	172.1	173.2	165.3	158.3	154.0	161.0	169.3	165.8	156.6	157.6	162.2
22.5°	196.5	196.5	195.8	192.1	192.1	201.4	186.0	182.9	194.2	180.8	175.8
25°	237.2	236.2	234.1	220.0	215.4	214.4	211.4	217.9	209.0	226.8	237.2
27.5°	252.2	251.2	246.0	241.6	252.9	249.3	244.9	228.4	262.8	245.9	251.5
30°	291.2	291.2	286.7	283.8	286.4	269.8	264.2	283.8	278.2	280.4	305.5
32.5°	342.0	342.4	336.5	320.0	304.8	307.8	305.2	306.6	315.2	313.0	327.6
35°	398.2	384.1	374.5	362.0	353.4	349.6	344.5	333.5	346.3	343.5	358.6
37.5°	431.0	432.3	424.5	417.2	411.6	387.2	376.8	381.1	381.6	374.5	400.8
40°	498.5	499.2	487.7	479.2	470.1	439.1	422.4	418.2	419.2	420.3	438.8
42.5°	543.1	543.1	534.0	526.4	510.7	490.3	473.2	464.7	466.6	464.6	484.4
45°	595.7	596.8	589.6	580.1	563.2	551.4	526.2	520.3	521.0	517.7	539.6
47.5°	662.6	662.4	659.6	649.0	635.1	614.8	597.2	582.6	584.2	582.1	605.0
50°	741.0	741.0	739.2	725.8	717.6	696.2	673.4	655.2	654.4	654.6	680.5
52.5°	828.4	829.4	832.1	822.9	810.4	780.8	753.5	734.5	733.5	735.4	765.9
55°	926.0	930.8	930.2	919.9	912.0	878.8	842.4	824.4	819.5	823.4	853.7
57.5°	1035.4	1037.8	1040.6	1032.6	1013.4	983.6	934.1	919.3	911.3	919.2	951.0
60°	1156.6	1162.4	1161.6	1157.8	1136.0	1103.3	1035.7	1021.6	1017.0	1020.9	1055.9
62.5°	1284.1	1284.3	1291.6	1283.2	1262.5	1229.9	1153.1	1128.4	1121.9	1125.1	1162.7
65°	1373.2	1374.3	1382.5	1380.6	1364.6	1329.6	1272.9	1231.8	1232.5	1236.5	1271.4
67.5°	1386.1	1387.4	1400.8	1416.3	1401.0	1369.3	1329.4	1304.5	1315.1	1319.2	1345.2
70°	1334.2	1336.9	1352.9	1369.6	1366.5	1342.3	1306.7	1298.0	1308.6	1317.6	1342.1
72.5°	1232.5	1233.9	1245.8	1261.1	1248.9	1227.8	1187.3	1201.9	1200.3	1212.0	1236.2
75°	1046.2	1041.3	1053.3	1057.3	1036.6	1014.8	981.3	1005.2	995.0	1004.9	1017.2
77.5°	703.0	698.1	702.8	720.1	705.4	703.4	694.6	721.3	725.6	731.9	732.8
80°	271.7	281.3	305.8	333.2	341.0	361.8	378.5	409.0	429.4	446.1	437.6
82.5°	53.6	58.9	71.2	86.4	103.5	124.4	149.6	175.6	200.8	214.0	203.6
85°	19.5	23.5	29.8	35.0	36.9	39.7	44.4	53.5	62.4	64.1	64.8
87.5°	5.2	9.1	16.9	22.8	23.0	20.7	22.0	23.0	20.2	16.0	21.8
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°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	47.0	43.5	40.0	38.1	37.4	36.7	36.2	35.8
5°	54.3	56.4	54.0	49.6	43.6	40.0	37.6	36.9
7.5°	46.3	46.3	53.5	55.9	49.6	44.4	39.2	38.3
10°	52.2	57.1	62.4	68.1	77.0	69.7	58.7	56.8
12.5°	94.9	80.6	69.2	69.2	78.4	79.2	63.6	61.6
15°	100.8	101.4	105.9	96.1	94.2	102.3	91.3	87.8
17.5°	127.7	125.9	122.8	108.4	101.0	103.6	104.9	101.4
20°	148.4	140.9	175.4	178.7	163.2	163.7	161.1	158.2
22.5°	204.7	206.2	193.7	193.4	181.5	202.0	222.4	213.6
25°	216.2	227.3	265.3	259.2	251.9	241.2	246.7	234.1
27.5°	281.5	274.5	281.8	274.5	294.2	284.4	278.5	275.6
30°	295.8	308.5	316.0	310.2	311.6	310.2	300.2	305.2
32.5°	338.3	332.5	344.0	353.4	359.7	361.1	344.0	354.0
35°	366.5	381.3	380.1	376.8	379.7	385.3	376.2	376.6
37.5°	405.5	409.2	406.2	405.3	406.9	410.0	411.4	406.2
40°	441.2	443.8	441.6	444.7	447.1	448.6	460.4	442.0
42.5°	491.4	487.6	490.8	495.0	494.2	494.0	504.8	495.0
45°	547.8	547.0	544.3	547.1	553.9	543.8	560.9	558.1
47.5°	613.3	613.3	608.8	611.4	622.4	614.7	629.7	634.3
50°	689.4	691.3	678.8	685.8	688.6	690.3	704.8	717.6
52.5°	774.6	776.3	759.0	762.9	760.8	774.1	789.9	810.0
55°	867.3	864.3	842.5	849.8	850.7	873.6	883.3	916.2
57.5°	959.6	958.7	943.7	943.6	957.0	980.8	989.0	1026.0
60°	1061.3	1061.5	1043.0	1047.2	1059.6	1082.9	1113.9	1144.8
62.5°	1166.5	1174.3	1158.5	1146.3	1159.9	1190.0	1236.7	1260.4
65°	1260.7	1276.6	1250.6	1250.4	1235.0	1284.4	1320.7	1349.9
67.5°	1325.9	1328.0	1297.7	1291.9	1283.6	1315.4	1356.5	1372.6
70°	1325.9	1304.6	1275.0	1270.7	1256.8	1269.1	1318.9	1328.4
72.5°	1220.5	1197.5	1157.1	1164.1	1148.2	1165.6	1205.0	1209.5
75°	1001.2	970.4	942.8	954.0	945.3	976.8	1010.8	1003.3
77.5°	714.0	676.0	640.1	639.8	640.7	648.5	672.0	661.2
80°	412.0	375.7	341.1	319.6	297.7	279.9	269.5	255.7
82.5°	181.3	146.0	119.3	96.1	81.7	66.0	58.0	49.8
85°	57.3	46.8	40.0	36.6	33.4	31.4	27.2	23.4
87.5°	25.8	25.3	23.7	24.4	24.4	21.1	14.6	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)