

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: P156923

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156923
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-8030
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.7 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - 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



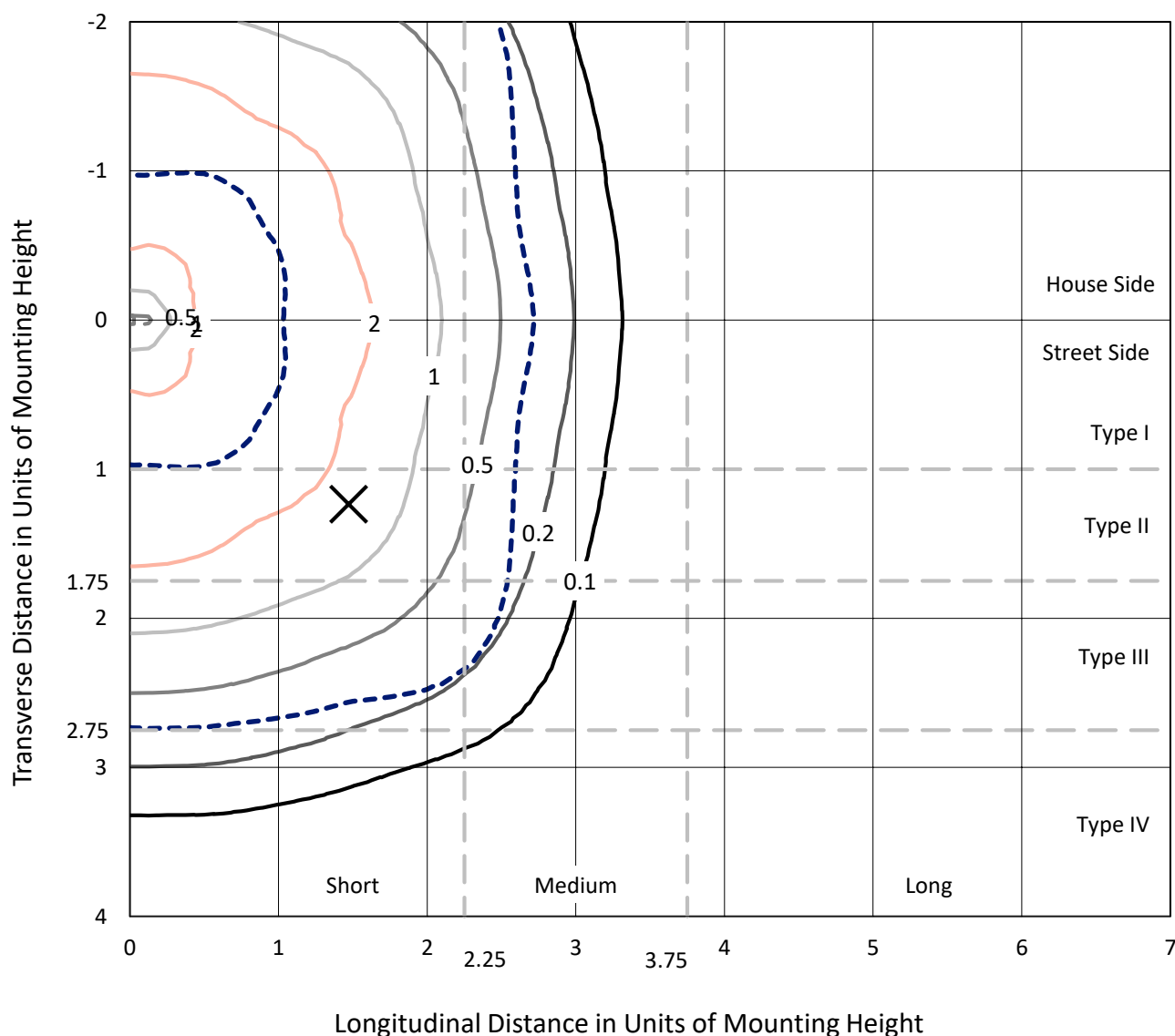
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

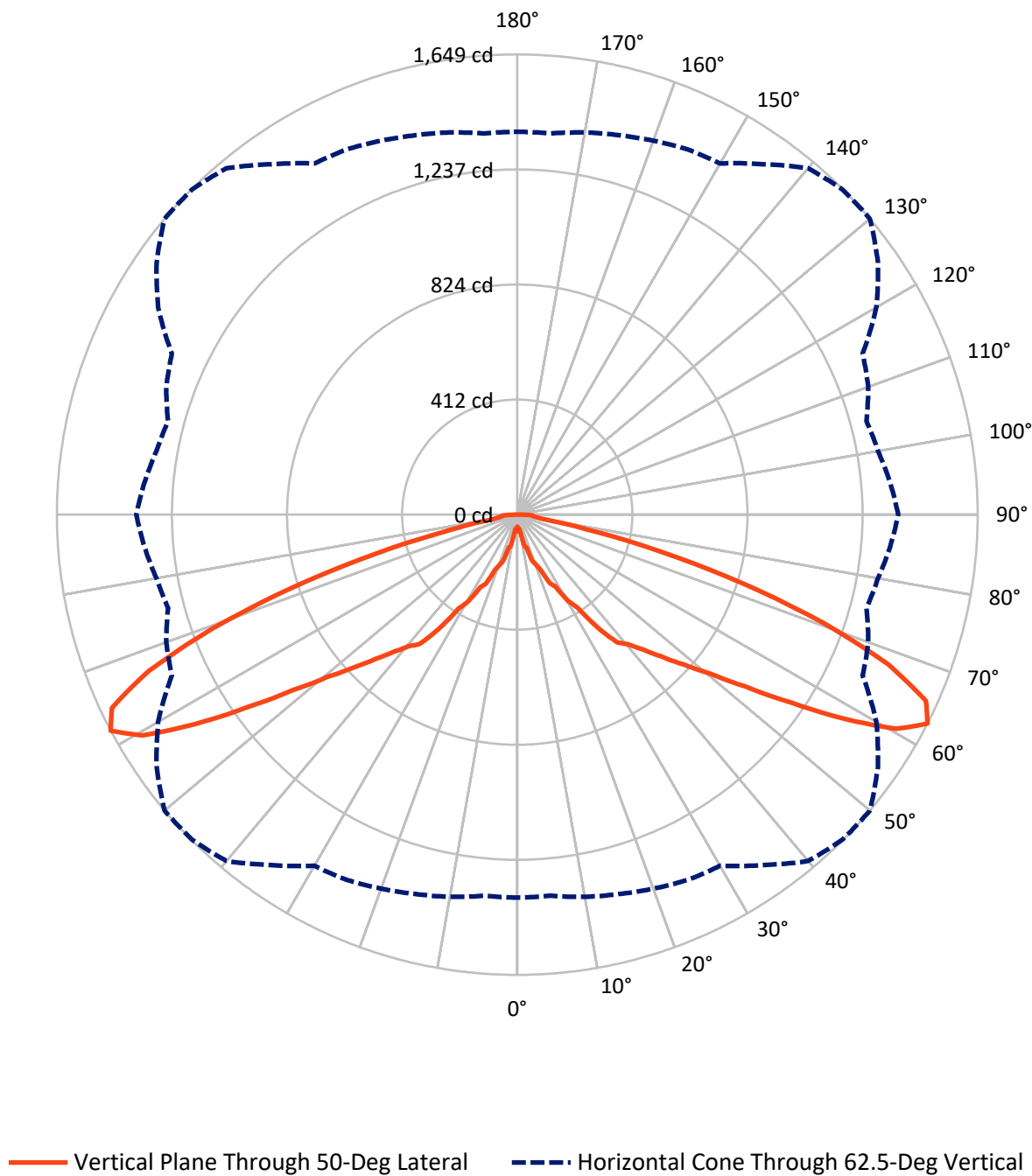


Based on 10 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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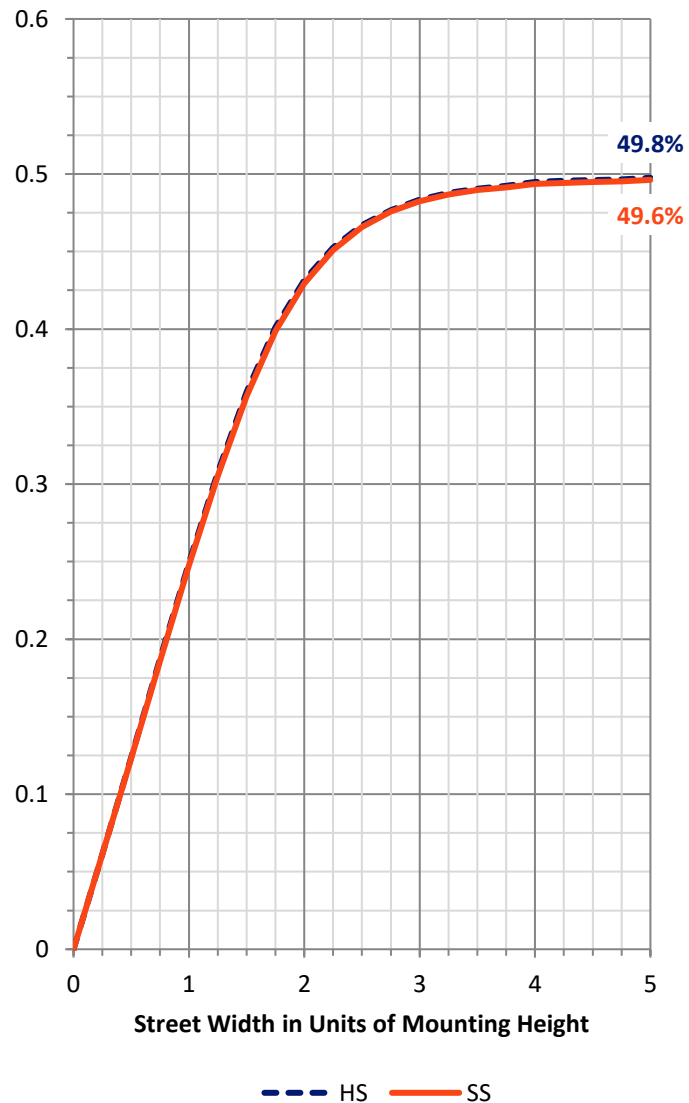
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1961.3	0.0	1961.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1961.3	0.0	1961.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	3922.7	0.0	3922.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.0	0.2
10°-20°	37.8	1.0
20°-30°	125.7	3.2
30°-40°	321.8	8.2
40°-50°	596.4	15.2
50°-60°	1083.7	27.6
60°-70°	1277.4	32.6
70°-80°	419.0	10.7
80°-90°	54.9	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°	3922.7	100.0
0°-180°	3922.7	100.0

Coefficient of Utilization



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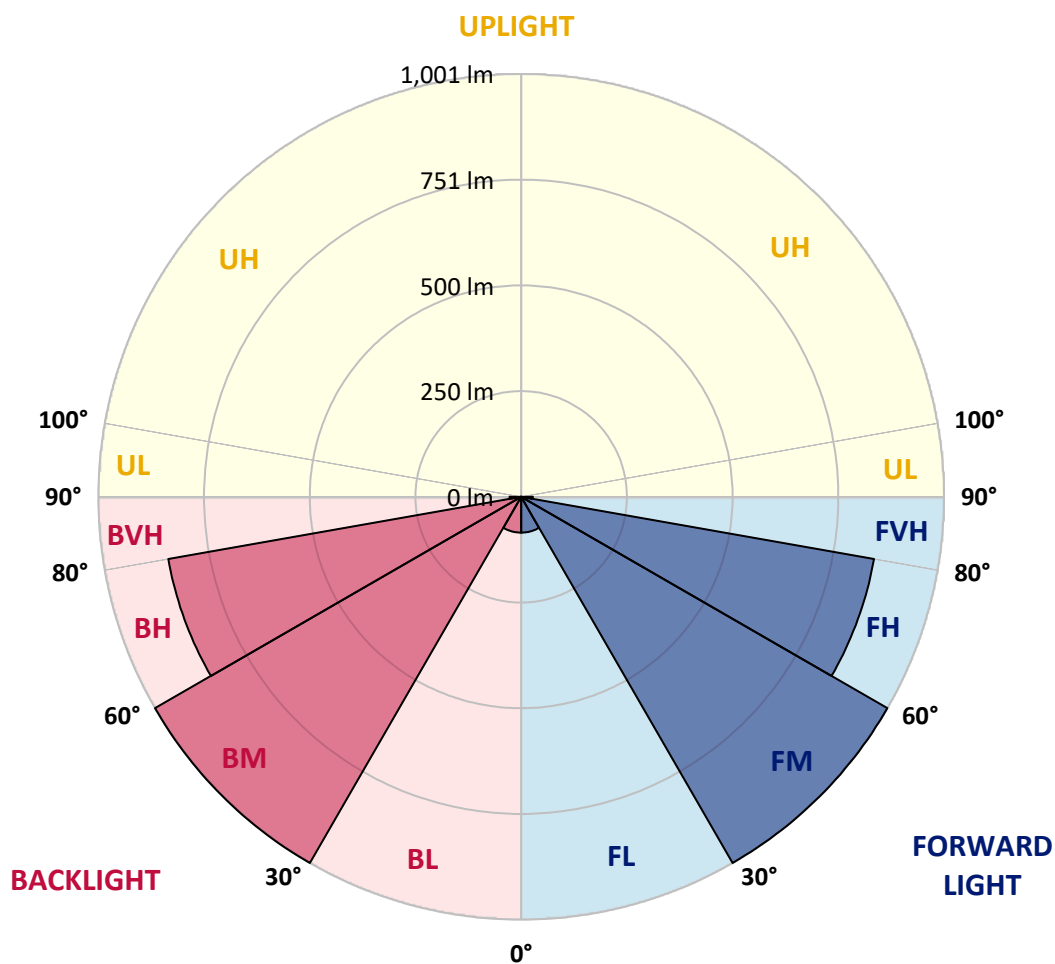
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	84.7	2.2			
FM	(30°-60°)	1001.0	25.5			
FH	(60°-80°)	848.2	21.6			G1/1800
FVH	(80°-90°)	27.5	0.7			G1/100
BL	(0°-30°)	84.7	2.2	B0/110		
BM	(30°-60°)	1001.0	25.5	B2/2500		
BH	(60°-80°)	848.2	21.6	B2/1000		G1/1800
BVH	(80°-90°)	27.5	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
2.5°	68.0	68.0	67.9	68.3	69.0	68.5	67.2	66.7	59.8	59.1	52.1
5°	49.8	50.0	50.3	50.2	50.3	51.7	50.8	51.7	50.5	52.2	60.6
7.5°	80.8	81.9	81.4	80.7	80.0	76.3	67.4	59.8	52.8	52.1	51.6
10°	86.8	87.1	86.7	86.4	86.2	86.2	85.9	83.3	82.4	80.5	68.8
12.5°	123.7	124.5	123.9	123.0	122.6	107.8	100.0	90.9	88.1	112.3	115.0
15°	131.0	132.4	131.0	130.1	129.8	127.7	126.0	145.4	143.6	122.4	121.8
17.5°	170.7	170.9	170.0	169.5	165.0	156.8	160.8	156.9	154.0	153.3	174.0
20°	195.4	192.3	186.4	177.5	172.4	192.3	194.5	188.8	175.2	184.1	191.2
22.5°	223.0	223.3	222.1	216.3	215.6	227.5	208.7	212.8	221.2	208.8	213.9
25°	275.2	275.0	270.9	251.4	247.5	243.2	242.6	248.6	235.8	254.2	272.4
27.5°	300.3	296.8	291.8	283.6	296.3	289.3	284.1	262.1	298.9	281.6	292.1
30°	367.5	365.4	355.8	350.6	347.3	323.8	315.1	335.3	326.4	329.9	358.2
32.5°	478.0	478.3	462.6	435.3	398.5	396.4	384.1	372.8	384.6	379.4	397.5
35°	578.3	565.0	532.2	522.4	503.0	494.4	481.2	463.2	471.7	469.1	499.2
37.5°	623.2	622.5	604.4	591.7	583.3	552.7	543.1	554.6	547.3	540.2	580.4
40°	719.4	717.8	698.1	679.2	659.7	614.0	599.2	589.4	581.8	583.4	610.3
42.5°	778.2	780.0	758.9	742.0	711.7	677.2	653.2	648.1	635.1	634.7	661.4
45°	844.4	843.8	828.2	805.6	774.6	747.2	714.5	711.3	699.9	699.4	725.5
47.5°	920.4	918.0	905.0	884.7	856.5	818.6	792.5	786.1	777.6	772.7	803.7
50°	1023.9	1023.3	1007.5	982.4	959.6	922.6	890.6	875.0	871.4	865.2	895.7
52.5°	1160.4	1157.8	1150.2	1117.2	1096.6	1037.8	1004.5	990.9	996.5	990.6	1023.3
55°	1308.5	1301.9	1298.6	1268.8	1253.1	1196.5	1157.8	1151.9	1158.2	1163.4	1188.5
57.5°	1426.2	1422.4	1427.4	1408.4	1386.4	1350.4	1312.6	1329.9	1349.1	1356.7	1379.7
60°	1451.3	1453.7	1464.7	1466.1	1462.6	1455.5	1431.3	1472.2	1526.7	1545.0	1558.1
62.5°	1371.6	1370.5	1390.2	1407.0	1425.7	1443.8	1452.4	1532.3	1619.7	1646.8	1648.7
65°	1230.4	1231.6	1255.7	1273.1	1296.1	1325.6	1375.9	1462.4	1581.8	1615.4	1608.4
67.5°	1042.6	1051.2	1070.4	1099.4	1119.8	1154.0	1213.7	1299.0	1412.5	1443.6	1434.2
70°	813.1	823.0	843.2	861.5	891.8	935.0	970.2	1063.7	1154.2	1179.9	1165.3
72.5°	512.4	522.2	556.2	577.2	605.6	644.5	679.8	764.5	847.8	873.6	846.8
75°	181.5	190.0	221.6	250.8	281.5	326.8	374.7	448.7	534.8	566.8	529.0
77.5°	71.0	72.6	78.4	82.2	94.2	113.4	141.1	182.7	251.2	281.3	250.5
80°	62.4	65.3	68.8	71.1	71.2	70.0	68.8	72.3	87.4	97.7	85.2
82.5°	54.0	57.3	63.9	68.1	68.6	66.9	65.0	62.5	60.4	57.8	62.2
85°	39.7	48.1	57.3	62.9	63.9	62.5	61.8	59.2	54.9	49.7	56.2
87.5°	16.0	24.6	44.9	53.3	53.0	48.4	49.8	50.7	44.9	32.9	47.8
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°	42.5	42.5	42.5	42.5	42.5	42.5	42.5	42.5
2.5°	52.6	47.6	45.6	43.4	42.8	42.3	42.3	42.2
5°	65.3	68.1	66.4	57.2	46.3	45.5	43.4	43.2
7.5°	51.7	51.6	59.2	65.5	61.0	45.8	45.3	44.9
10°	57.7	74.0	75.2	77.7	96.3	81.4	69.0	67.2
12.5°	112.3	92.5	80.8	83.3	88.8	96.3	73.7	70.8
15°	118.8	119.0	130.1	116.9	114.8	128.4	105.0	108.7
17.5°	151.5	150.3	149.8	126.3	123.7	123.0	126.1	118.4
20°	174.2	165.9	198.9	207.4	189.5	183.2	186.8	185.0
22.5°	233.4	239.2	222.4	221.0	217.2	238.8	244.9	235.8
25°	245.4	271.4	297.6	298.2	286.5	277.7	291.4	279.8
27.5°	322.6	316.3	325.2	318.6	351.5	342.8	342.1	330.2
30°	350.0	363.0	382.0	379.9	391.2	385.8	380.0	399.9
32.5°	415.2	415.8	432.3	473.4	489.8	502.7	492.6	498.2
35°	507.6	535.0	543.0	540.3	544.0	560.7	547.8	547.7
37.5°	583.2	583.0	578.6	572.4	581.1	593.6	596.0	585.0
40°	619.4	619.0	621.5	625.5	639.1	646.9	660.5	642.0
42.5°	670.1	667.5	676.9	687.0	698.7	706.3	726.9	706.8
45°	736.1	734.7	742.5	750.2	760.0	763.8	791.3	792.2
47.5°	811.7	815.3	805.4	813.8	824.2	832.8	866.8	871.6
50°	902.8	911.5	887.8	895.0	908.2	927.4	953.8	972.6
52.5°	1030.4	1024.7	1006.6	1001.2	1027.7	1061.8	1088.0	1118.6
55°	1195.8	1175.8	1155.5	1145.6	1174.9	1220.5	1247.1	1286.9
57.5°	1375.9	1341.4	1287.9	1295.6	1310.0	1347.9	1362.1	1424.4
60°	1520.1	1462.8	1379.5	1360.2	1355.0	1375.2	1414.4	1445.8
62.5°	1576.4	1484.9	1364.7	1337.6	1294.4	1311.9	1339.6	1364.2
65°	1513.8	1395.9	1275.9	1227.3	1177.6	1194.6	1209.2	1224.6
67.5°	1344.2	1229.1	1118.2	1052.0	1007.3	1008.9	1028.6	1027.4
70°	1094.6	983.3	890.1	835.6	790.8	782.8	793.9	803.4
72.5°	769.4	679.1	610.7	558.6	510.4	506.2	493.8	506.2
75°	442.4	356.0	301.0	246.5	197.2	187.1	170.0	172.8
77.5°	181.5	127.0	98.2	79.4	73.2	71.4	72.5	71.8
80°	73.5	67.4	66.0	65.8	67.1	67.9	68.3	65.2
82.5°	65.7	65.5	64.4	63.9	64.3	64.6	60.4	57.8
85°	61.5	61.3	60.1	59.2	59.4	57.4	51.4	45.7
87.5°	54.7	51.6	49.3	52.3	53.3	49.0	32.7	26.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)