

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: P156955

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156955
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
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4665 lumens
Efficiency: N/A
Efficacy: 84.8 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



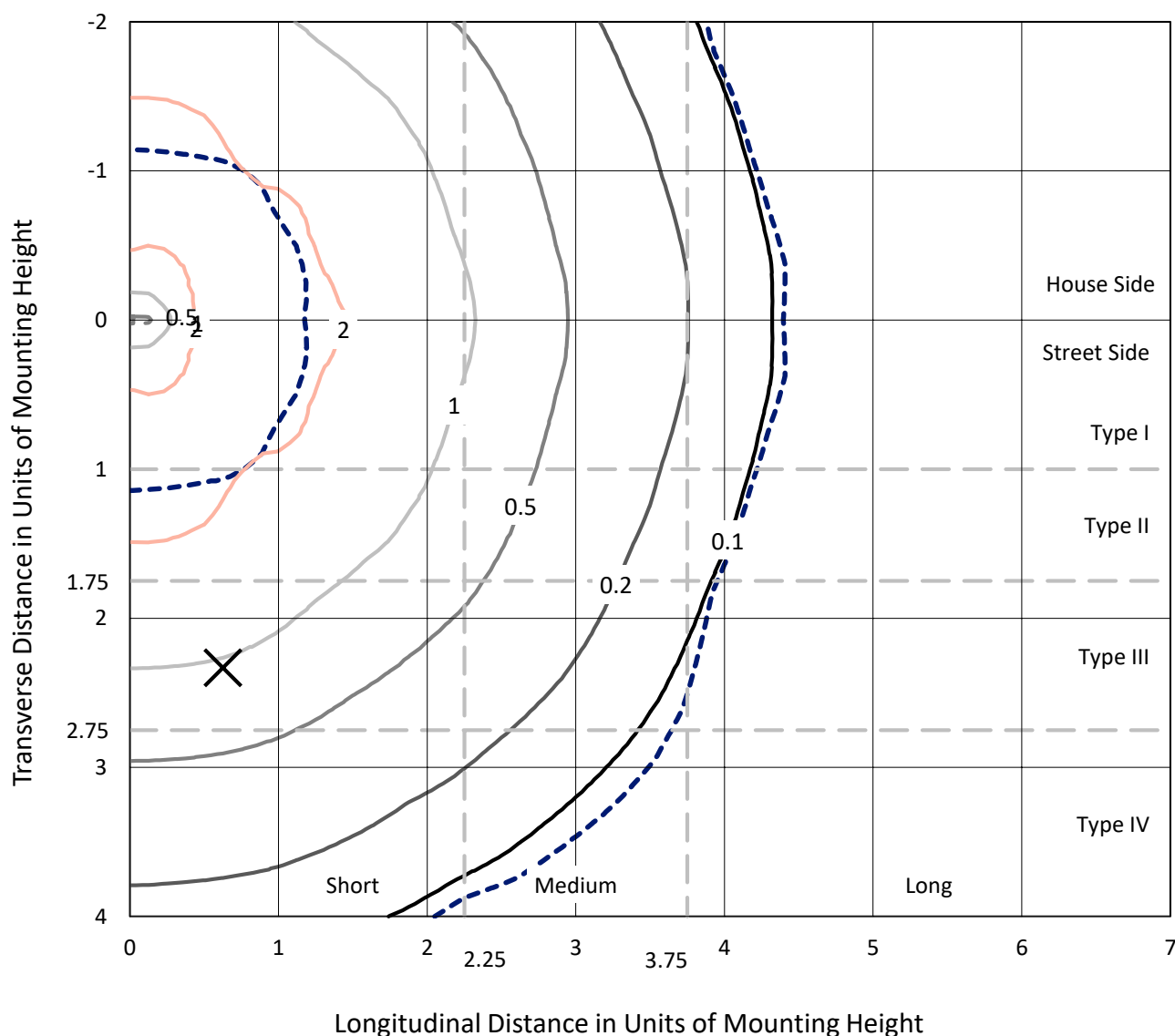
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

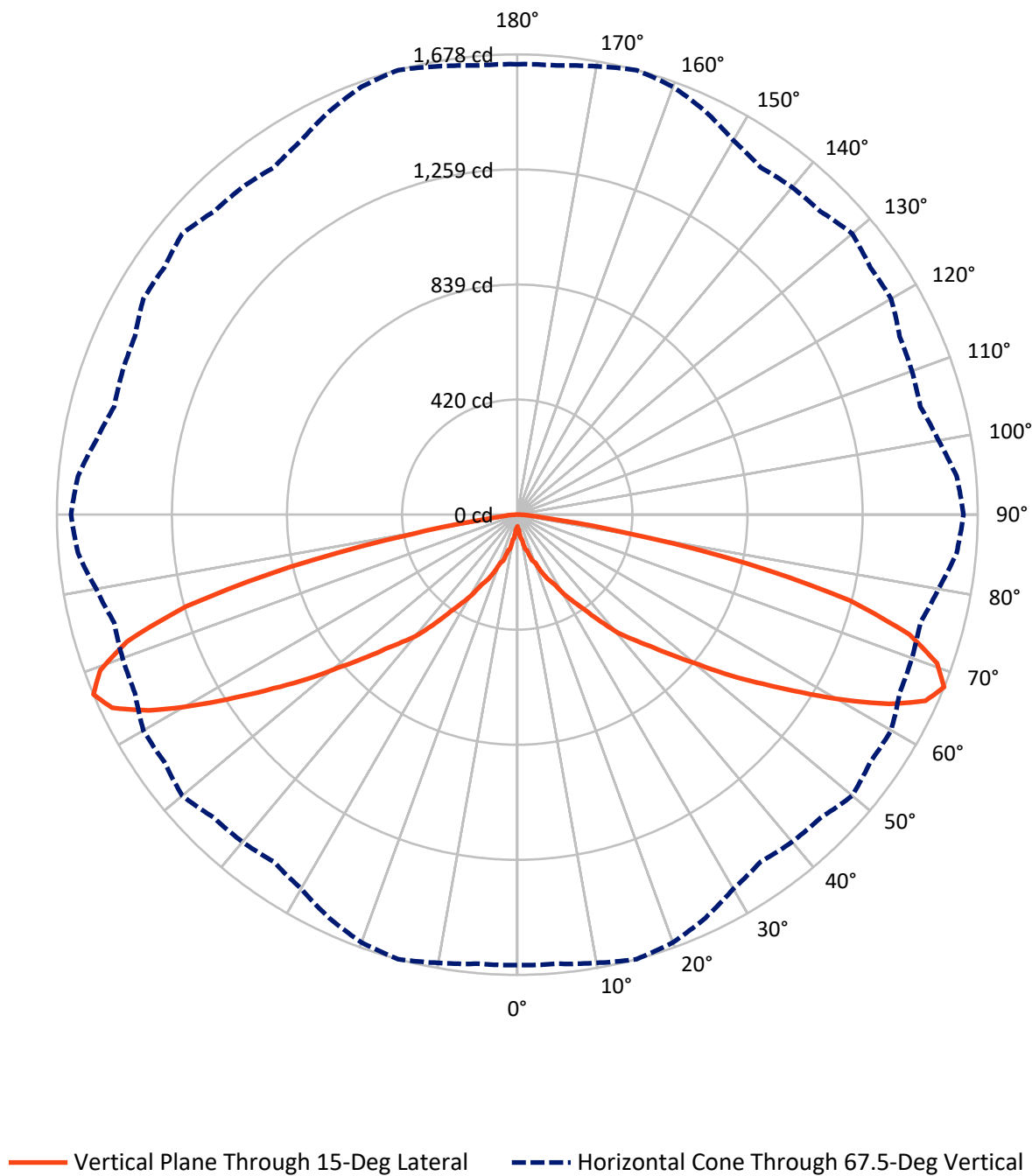


Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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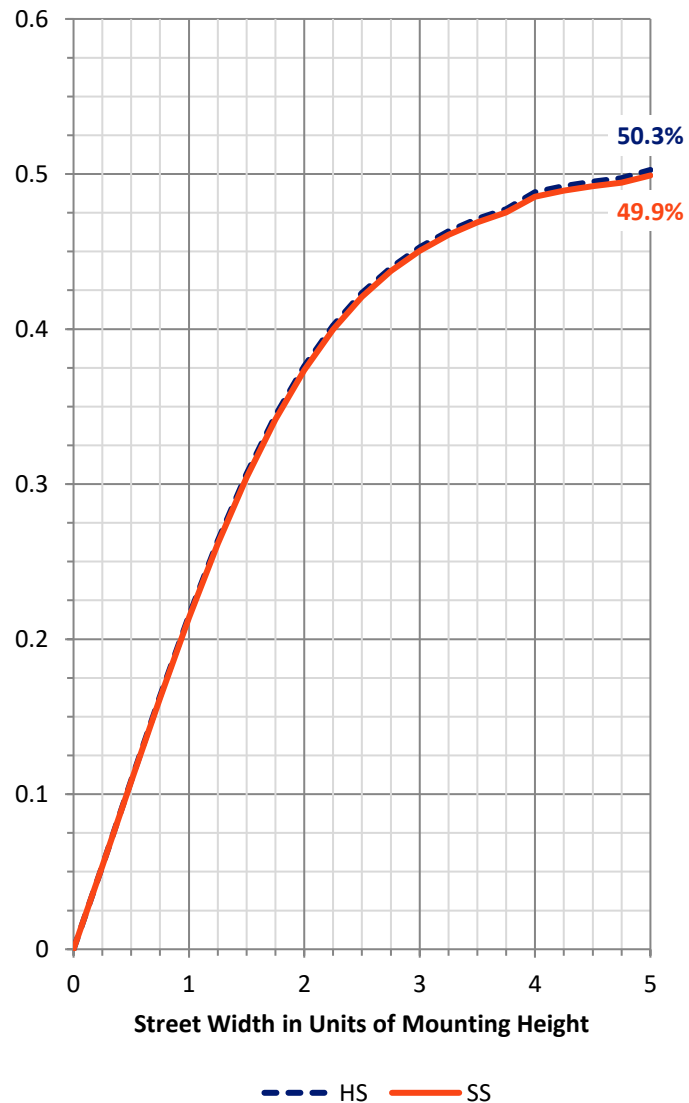
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2332.5	0.0	2332.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2332.5	0.0	2332.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	4665.0	0.0	4665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	0.1
10°-20°	38.6	0.8
20°-30°	127.6	2.7
30°-40°	276.0	5.9
40°-50°	516.5	11.1
50°-60°	937.1	20.1
60°-70°	1482.2	31.8
70°-80°	1165.5	25.0
80°-90°	115.2	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°	4665.0	100.0
0°-180°	4665.0	100.0

Coefficient of Utilization



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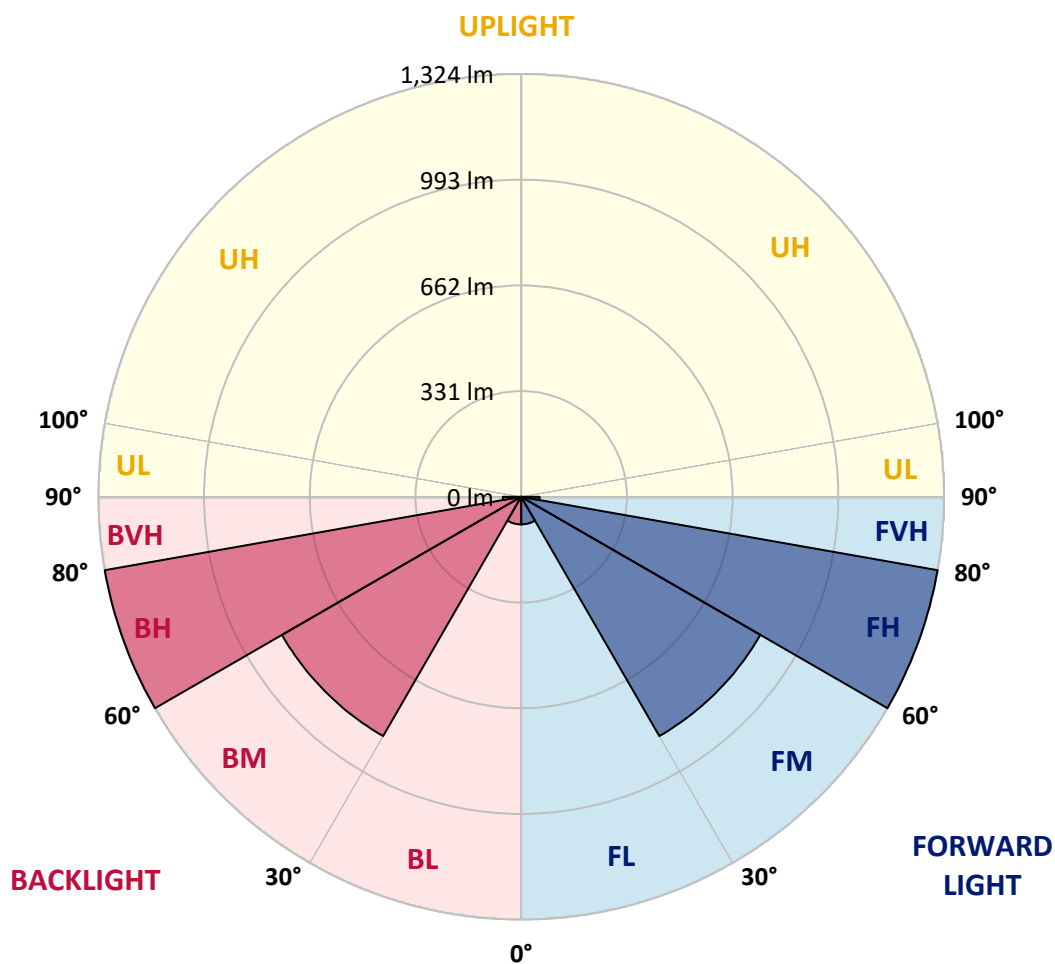
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.2	1.8			
FM	(30°-60°)	864.8	18.5			
FH	(60°-80°)	1323.9	28.4			G1/1800
FVH	(80°-90°)	57.6	1.2			G1/100
BL	(0°-30°)	86.2	1.8	B0/110		
BM	(30°-60°)	864.8	18.5	B1/1000		
BH	(60°-80°)	1323.9	28.4	B3/2500		G1/1800
BVH	(80°-90°)	57.6	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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	67.3	67.1	67.1	67.1	67.9	65.8	62.8	60.4	59.0	58.8	57.4
5°	53.2	53.0	53.1	53.2	53.0	53.7	53.4	54.9	54.7	58.4	63.4
7.5°	85.4	85.8	85.6	84.6	82.6	76.6	72.0	68.3	57.4	55.9	54.3
10°	92.4	92.4	92.5	91.0	91.2	91.2	90.4	88.8	87.5	84.8	72.2
12.5°	128.0	128.4	128.6	127.8	125.1	112.7	109.2	97.2	94.7	110.8	114.3
15°	138.3	138.9	138.5	136.2	135.4	134.0	131.7	141.6	144.7	132.1	122.8
17.5°	177.0	177.7	176.9	175.4	171.9	161.2	164.5	161.4	159.5	156.9	165.9
20°	203.9	205.2	195.9	187.6	182.4	190.7	200.6	196.5	185.5	186.8	192.1
22.5°	232.8	232.8	232.0	227.6	227.6	238.6	220.4	216.7	230.1	214.2	208.2
25°	281.0	279.9	277.4	260.6	255.3	254.0	250.6	258.2	247.7	268.7	281.1
27.5°	298.8	297.6	291.4	286.3	299.6	295.4	290.2	270.5	311.4	291.4	298.0
30°	345.1	345.1	339.7	336.2	339.3	319.7	313.1	336.2	329.6	332.2	362.0
32.5°	405.3	405.8	398.7	379.1	361.2	364.7	361.6	363.2	373.5	370.8	388.2
35°	471.8	455.1	443.7	428.9	418.7	414.2	408.2	395.2	410.3	407.0	425.0
37.5°	510.6	512.2	503.0	494.3	487.6	458.8	446.4	451.6	452.2	443.7	474.9
40°	590.7	591.5	577.9	567.8	557.0	520.3	500.5	495.5	496.8	498.0	519.9
42.5°	643.4	643.5	632.8	623.7	605.1	581.0	560.8	550.6	552.9	550.4	574.0
45°	705.8	707.1	698.6	687.2	667.2	653.4	623.5	616.4	617.3	613.4	639.4
47.5°	785.1	784.9	781.6	769.0	752.4	728.5	707.7	690.3	692.2	689.7	716.8
50°	878.0	877.9	875.9	860.0	850.3	824.9	797.8	776.4	775.3	775.6	806.3
52.5°	981.6	982.8	985.9	975.0	960.3	925.2	892.8	870.3	869.0	871.4	907.4
55°	1097.1	1102.9	1102.1	1089.9	1080.6	1041.2	998.1	976.8	971.0	975.6	1011.5
57.5°	1226.7	1229.6	1232.9	1223.4	1200.7	1165.4	1106.8	1089.3	1079.8	1089.1	1126.8
60°	1370.4	1377.2	1376.3	1371.8	1346.0	1307.2	1227.1	1210.4	1205.1	1209.6	1251.1
62.5°	1521.4	1521.7	1530.4	1520.4	1495.8	1457.2	1366.2	1337.0	1329.3	1333.0	1377.6
65°	1627.1	1628.4	1638.0	1635.8	1616.8	1575.3	1508.2	1459.5	1460.4	1465.1	1506.4
67.5°	1642.4	1643.8	1659.7	1678.1	1659.9	1622.4	1575.1	1545.6	1558.2	1563.1	1593.9
70°	1580.8	1584.0	1603.0	1622.8	1619.1	1590.4	1548.3	1538.0	1550.5	1561.1	1590.2
72.5°	1460.4	1462.0	1476.0	1494.2	1479.8	1454.8	1406.7	1424.0	1422.2	1436.0	1464.7
75°	1239.6	1233.8	1248.0	1252.7	1228.2	1202.4	1162.8	1191.0	1178.9	1190.6	1205.3
77.5°	833.0	827.2	832.8	853.2	835.8	833.4	823.0	854.6	859.8	867.2	868.2
80°	322.0	333.3	362.4	394.8	404.1	428.6	448.5	484.6	508.7	528.6	518.4
82.5°	63.6	69.8	84.4	102.4	122.6	147.4	177.3	208.0	238.0	253.6	241.2
85°	23.1	27.8	35.3	41.5	43.8	47.0	52.6	63.4	73.9	76.0	76.8
87.5°	6.2	10.8	20.0	27.0	27.2	24.5	26.0	27.2	23.9	19.0	25.8
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°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	42.9
2.5°	55.7	51.6	47.4	45.2	44.4	43.6	42.9	42.5
5°	64.4	66.9	64.0	58.8	51.6	47.5	44.6	43.8
7.5°	54.9	54.9	63.4	66.2	58.8	52.6	46.5	45.4
10°	61.9	67.7	73.9	80.7	91.2	82.6	69.6	67.2
12.5°	112.5	95.6	81.9	81.9	92.9	93.9	75.3	73.0
15°	119.5	120.1	125.5	113.9	111.6	121.2	108.2	104.0
17.5°	151.3	149.2	145.5	128.4	119.7	122.8	124.2	120.1
20°	175.8	167.0	207.8	211.7	193.4	194.0	190.9	187.4
22.5°	242.5	244.4	229.5	229.1	215.0	239.4	263.5	253.0
25°	256.1	269.3	314.3	307.1	298.4	285.8	292.2	277.4
27.5°	333.5	325.3	333.9	325.2	348.6	337.0	330.0	326.5
30°	350.4	365.5	374.4	367.6	369.2	367.6	355.6	361.6
32.5°	400.8	394.0	407.6	418.7	426.2	427.8	407.6	419.4
35°	434.2	451.8	450.3	446.4	449.9	456.5	445.8	446.2
37.5°	480.4	484.8	481.3	480.2	482.1	485.8	487.5	481.3
40°	522.8	525.9	523.2	526.9	529.8	531.4	545.5	523.8
42.5°	582.2	577.7	581.6	586.6	585.5	585.3	598.1	586.5
45°	649.1	648.0	645.0	648.2	656.3	644.3	664.6	661.2
47.5°	726.6	726.7	721.3	724.4	737.4	728.3	746.0	751.6
50°	816.9	819.2	804.3	812.5	815.8	817.9	835.0	850.3
52.5°	917.8	919.8	899.2	904.0	901.4	917.2	936.0	959.7
55°	1027.6	1024.1	998.3	1006.9	1008.0	1035.0	1046.6	1085.6
57.5°	1137.0	1135.9	1118.2	1118.0	1133.8	1162.1	1171.8	1215.6
60°	1257.5	1257.7	1235.8	1240.8	1255.4	1283.0	1319.8	1356.4
62.5°	1382.2	1391.4	1372.6	1358.2	1374.3	1410.0	1465.3	1493.4
65°	1493.8	1512.6	1481.8	1481.6	1463.2	1521.8	1564.8	1599.4
67.5°	1571.0	1573.4	1537.6	1530.7	1520.8	1558.6	1607.3	1626.3
70°	1571.0	1545.8	1510.7	1505.6	1489.1	1503.7	1562.7	1573.8
72.5°	1446.1	1418.9	1371.0	1379.2	1360.5	1381.1	1427.7	1433.1
75°	1186.3	1149.8	1117.1	1130.3	1120.1	1157.4	1197.6	1188.8
77.5°	846.0	801.0	758.4	758.0	759.1	768.3	796.2	783.4
80°	488.1	445.2	404.1	378.7	352.7	331.7	319.2	303.0
82.5°	214.8	172.9	141.4	113.9	96.8	78.2	68.7	59.0
85°	67.9	55.5	47.5	43.4	39.6	37.2	32.2	27.6
87.5°	30.5	29.9	28.1	28.9	28.9	25.0	17.3	14.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)