

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: P177333

Luminaire Tested: **VAL-F02-LED-E-U-WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P177333
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33699)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VAL-F02-LED-E-U-WQ
Description: VALET TUNNEL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5105.2 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B3 - U0 - G2

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

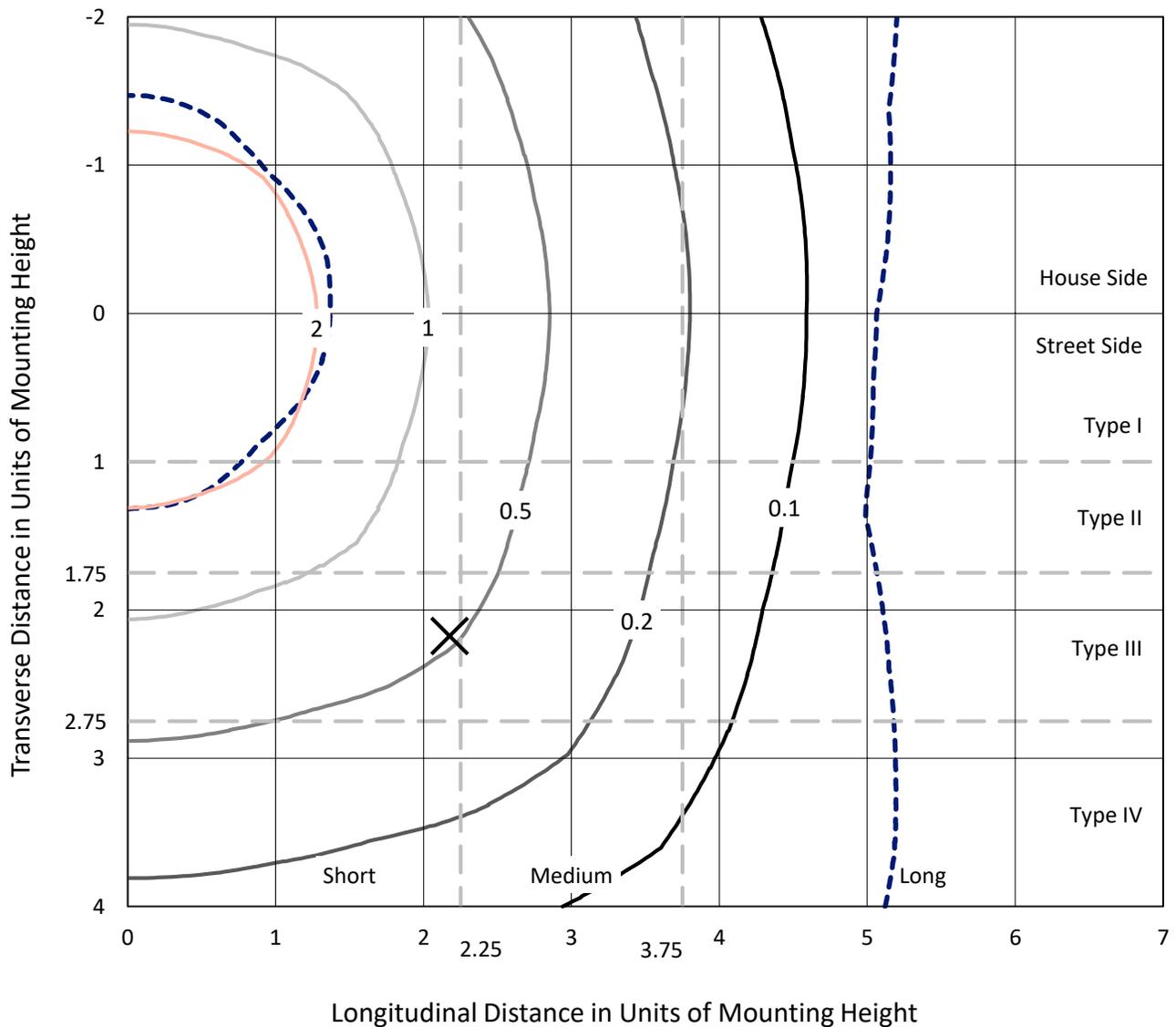


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

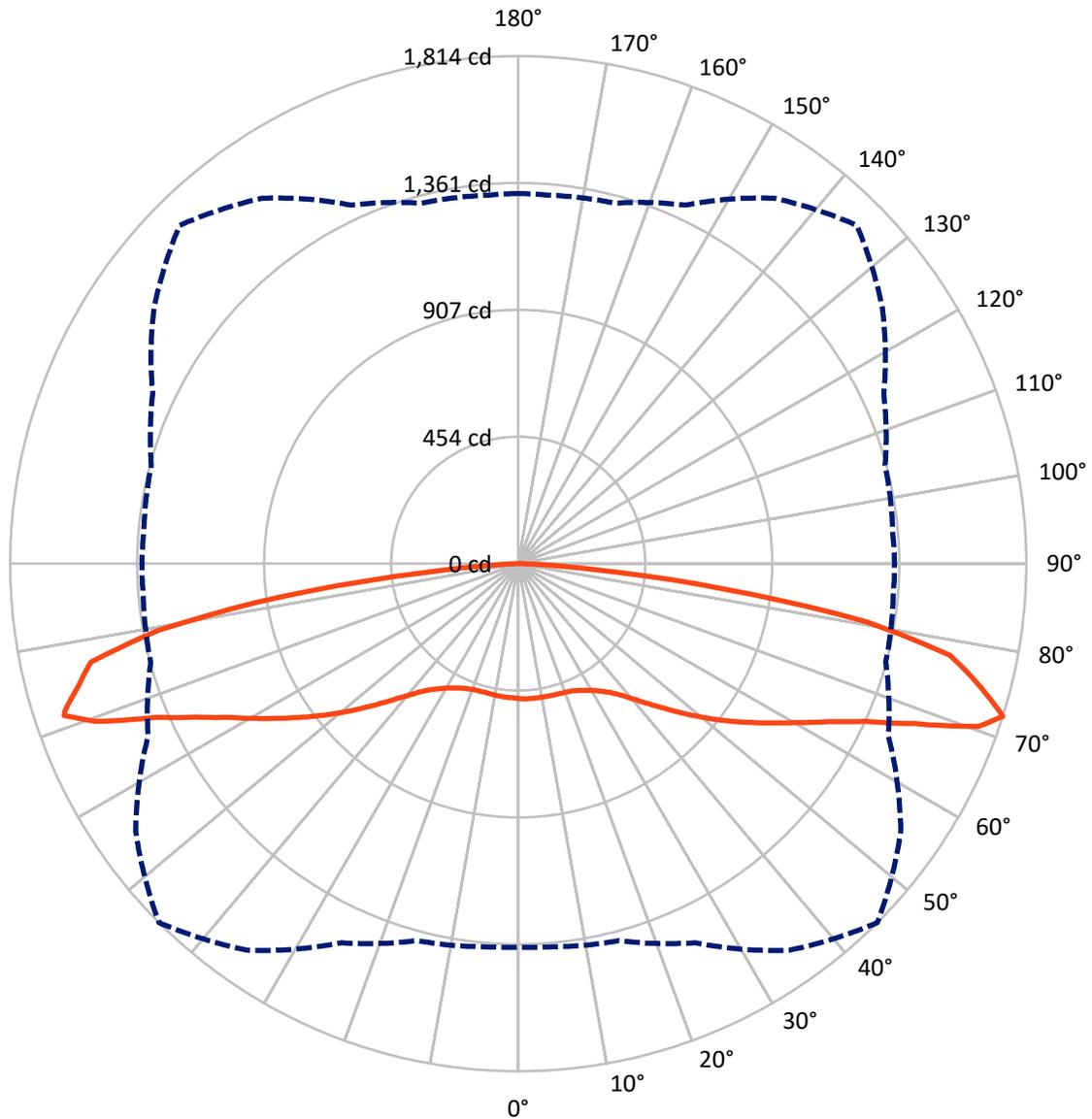


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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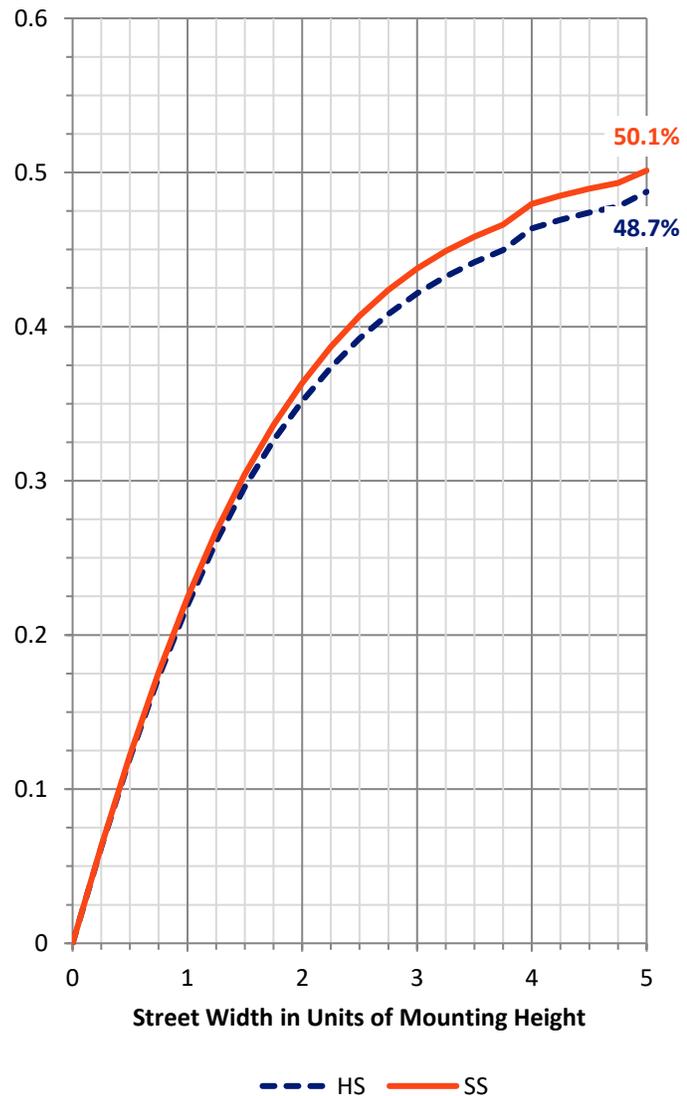
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2517.6	0.0	2517.6
	% Fixture	49.3	0.0	49.3
Street Side	Lumens	2587.6	0.0	2587.6
	% Fixture	50.7	0.0	50.7
Total	Lumens	5105.2	0.0	5105.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	0.9
10°-20°	136.7	2.7
20°-30°	229.6	4.5
30°-40°	349.5	6.8
40°-50°	552.4	10.8
50°-60°	843.8	16.5
60°-70°	1236.1	24.2
70°-80°	1404.4	27.5
80°-90°	306.8	6.0
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°	5105.2	100.0
0°-180°	5105.2	100.0



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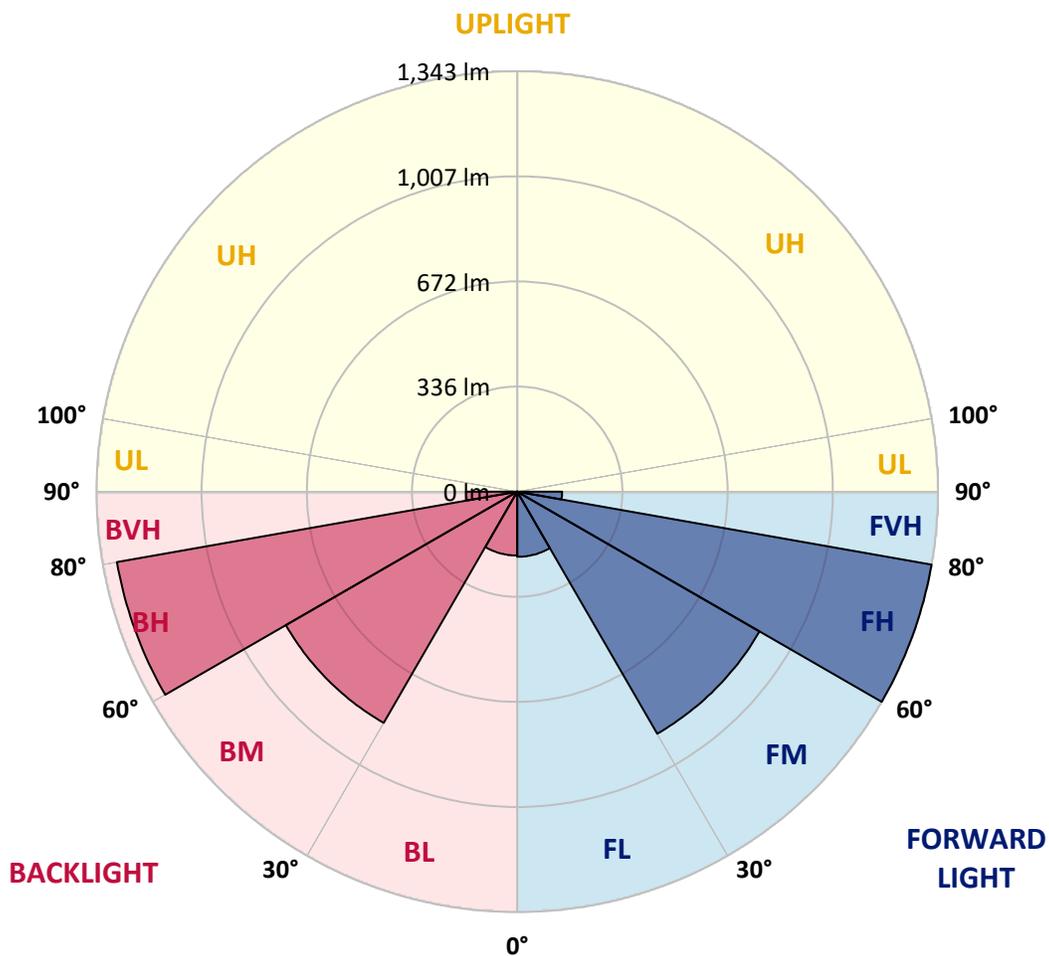
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.2	4.1			
FM	(30°-60°)	892.9	17.5			
FH	(60°-80°)	1343.0	26.3			G1/1800
FVH	(80°-90°)	143.5	2.8			G2/225
BL	(0°-30°)	204.1	4.0	B1/500		
BM	(30°-60°)	852.8	16.7	B1/1000		
BH	(60°-80°)	1297.5	25.4	B3/2500		G1/1800
BVH	(80°-90°)	163.3	3.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	486.1	486.1	484.7	484.1	484.1	483.8	483.4	483.4	483.1	483.4	482.4
5°	486.7	486.7	485.4	484.7	484.4	484.1	484.1	483.4	483.1	483.4	482.4
7.5°	486.7	487.1	486.4	485.7	484.7	484.4	484.1	483.1	483.1	482.4	482.1
10°	488.1	489.0	487.7	486.7	485.4	484.7	483.8	483.1	482.8	482.1	482.1
12.5°	489.0	490.0	488.7	487.7	486.4	485.4	484.1	483.1	482.4	481.4	481.8
15°	490.4	491.4	490.0	488.7	487.4	486.1	484.7	483.4	482.4	481.8	481.8
17.5°	491.0	492.0	490.7	489.4	488.4	487.7	486.1	484.1	482.8	482.1	482.1
20°	492.0	493.0	492.0	491.4	490.4	490.0	488.4	486.1	484.4	483.4	483.1
22.5°	494.3	495.0	494.7	494.7	494.7	494.3	493.0	489.4	487.4	485.7	485.4
25°	499.9	499.6	500.3	500.9	501.3	501.9	499.9	496.0	493.3	490.7	490.4
27.5°	509.2	509.5	509.8	511.2	512.5	512.8	510.8	506.5	502.6	498.9	498.6
30°	519.8	519.8	521.1	523.7	525.0	526.0	524.0	518.8	513.8	510.2	509.5
32.5°	534.9	536.3	536.9	539.9	542.5	543.5	540.6	534.9	529.3	524.7	523.7
35°	556.7	558.7	559.4	562.0	565.0	565.3	562.7	556.4	550.5	544.2	544.5
37.5°	587.4	587.8	589.4	590.1	595.7	595.7	591.4	585.8	579.8	574.2	572.6
40°	628.4	628.7	629.4	628.4	635.0	637.0	631.4	622.8	617.2	609.9	608.9
42.5°	673.0	676.3	675.9	674.3	680.9	685.2	678.3	668.3	662.4	654.8	653.5
45°	728.1	727.5	724.5	728.1	735.7	740.3	731.7	719.2	712.9	703.3	703.0
47.5°	781.6	780.9	776.3	779.0	793.2	800.8	788.2	774.0	765.8	760.1	755.9
50°	832.5	837.1	831.1	836.8	855.2	865.5	853.9	831.5	821.6	813.0	810.7
52.5°	892.2	894.9	889.6	898.5	919.0	933.8	918.0	888.9	879.0	869.4	866.5
55°	953.3	952.0	949.4	959.3	984.4	1001.9	984.7	949.7	935.2	927.9	927.9
57.5°	1013.4	1014.1	1007.8	1019.7	1051.4	1074.5	1053.0	1010.1	992.3	984.0	986.7
60°	1077.8	1077.8	1068.2	1079.1	1123.4	1152.8	1120.4	1071.2	1051.7	1046.8	1047.1
62.5°	1150.1	1147.5	1136.9	1150.5	1204.3	1243.2	1202.6	1141.2	1115.8	1115.8	1118.1
65°	1233.7	1229.4	1225.7	1241.3	1310.9	1358.5	1305.0	1227.4	1204.9	1202.3	1206.6
67.5°	1353.9	1358.5	1349.2	1369.7	1464.8	1526.9	1445.7	1345.6	1321.8	1319.5	1330.1
70°	1462.2	1457.5	1469.4	1527.2	1656.7	1743.2	1630.2	1476.4	1408.3	1394.5	1398.8
72°	1371.0	1374.7	1394.8	1495.2	1687.0	1814.2	1667.6	1458.2	1358.5	1344.0	1343.6
72.5°	1349.9	1352.5	1369.7	1466.1	1665.2	1795.4	1648.7	1435.1	1341.0	1328.4	1327.8
75°	1238.9	1244.2	1271.3	1365.1	1567.2	1689.7	1552.0	1352.2	1248.9	1225.1	1230.0
77.5°	1055.4	1066.2	1093.7	1201.6	1438.7	1575.8	1428.5	1198.7	1082.8	1065.3	1059.6
80°	774.3	759.8	809.3	905.1	1073.8	1262.4	1089.4	903.1	782.9	750.9	758.8
82.5°	263.5	269.8	348.0	464.6	589.4	737.0	625.7	452.4	333.2	292.9	275.1
85°	32.0	34.7	54.2	98.7	185.6	268.1	189.5	100.4	62.4	38.3	33.7
87.5°	15.5	16.5	23.1	24.8	30.7	26.1	31.0	19.8	18.8	11.6	9.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1	482.1
2.5°	482.1	481.4	481.1	480.5	479.8	479.8	479.8	479.8	479.8	480.1
5°	482.1	481.4	481.1	480.1	479.5	479.5	479.1	479.5	479.1	479.5
7.5°	482.1	481.1	480.1	479.1	478.5	478.8	478.1	477.8	478.1	478.1
10°	481.8	480.1	478.8	477.8	477.5	477.2	477.2	476.8	477.5	477.2
12.5°	481.4	479.5	477.8	476.5	476.2	476.2	476.2	476.2	477.2	476.8
15°	481.1	479.1	477.5	475.8	475.5	476.2	476.2	476.8	477.5	477.5
17.5°	481.4	479.1	477.2	475.8	475.8	476.5	476.8	477.8	478.8	478.1
20°	482.8	480.1	478.5	477.2	477.8	478.5	478.5	479.1	480.1	479.5
22.5°	484.7	482.8	481.4	481.1	482.1	482.4	482.1	481.8	482.1	481.4
25°	489.4	487.4	486.4	487.7	488.7	488.4	487.1	485.7	485.1	484.7
27.5°	498.0	496.3	496.0	497.6	498.6	497.0	494.7	492.7	492.0	491.0
30°	508.5	507.5	508.5	510.2	510.5	507.9	504.6	501.6	500.6	500.6
32.5°	522.4	521.4	523.7	526.4	527.0	523.4	518.1	514.1	511.5	511.2
35°	542.5	541.9	542.5	545.8	545.5	541.9	535.9	531.3	528.7	528.7
37.5°	570.6	569.9	568.3	571.6	571.3	566.3	560.0	556.1	553.1	553.4
40°	607.3	606.3	604.3	604.9	607.6	601.0	593.1	587.8	587.4	587.4
42.5°	651.2	646.6	647.2	651.2	649.2	641.3	634.0	629.4	629.4	629.0
45°	699.1	697.4	696.7	698.1	699.7	693.4	681.2	675.9	675.6	675.6
47.5°	754.5	746.3	747.9	751.2	755.2	747.3	731.7	725.5	724.5	724.8
50°	808.7	800.1	801.7	808.7	816.3	803.7	784.6	777.0	775.7	776.3
52.5°	864.8	857.6	857.6	869.1	879.0	863.5	839.4	830.1	830.1	829.8
55°	924.3	914.4	918.3	933.2	945.1	926.2	896.5	889.3	883.6	886.0
57.5°	983.4	973.5	976.8	999.5	1014.4	992.0	954.6	939.4	936.1	935.5
60°	1043.8	1032.6	1036.5	1072.2	1089.7	1060.0	1005.2	986.7	983.7	983.4
62.5°	1110.8	1102.9	1108.8	1150.1	1170.3	1128.0	1059.0	1037.8	1038.8	1036.5
65°	1194.4	1188.1	1198.3	1248.9	1273.6	1211.5	1128.7	1104.2	1107.2	1106.9
67.5°	1313.9	1306.3	1312.6	1383.2	1405.4	1325.8	1225.4	1201.3	1205.9	1213.5
70°	1388.9	1394.5	1450.9	1550.0	1610.8	1529.5	1396.8	1351.5	1353.9	1354.9
72°	1342.0	1356.2	1440.0	1588.0	1709.8	1594.3	1413.6	1333.4	1321.5	1322.8
72.5°	1329.4	1340.3	1424.5	1572.1	1701.6	1580.4	1395.5	1319.5	1300.4	1301.0
75°	1235.0	1255.8	1336.7	1490.2	1628.9	1510.7	1325.5	1244.6	1229.7	1229.7
77.5°	1072.2	1101.3	1184.1	1399.8	1566.2	1437.4	1236.6	1136.6	1121.4	1115.8
80°	788.9	831.5	913.0	1126.0	1305.7	1188.1	1018.0	915.0	891.2	882.7
82.5°	310.7	347.4	484.4	678.3	860.5	732.4	553.8	462.0	388.3	380.4
85°	38.6	62.4	122.2	223.6	341.8	243.0	145.0	75.9	40.9	34.3
87.5°	11.2	21.1	23.1	37.6	44.6	40.9	25.8	23.1	12.9	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)