

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: P177332

Luminaire Tested: **VAL-F02-LED-E-U-WQ-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P177332  
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-7030  
Description: VALET TUNNEL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - WIDE TYPE V SQUARE  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4662.8 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

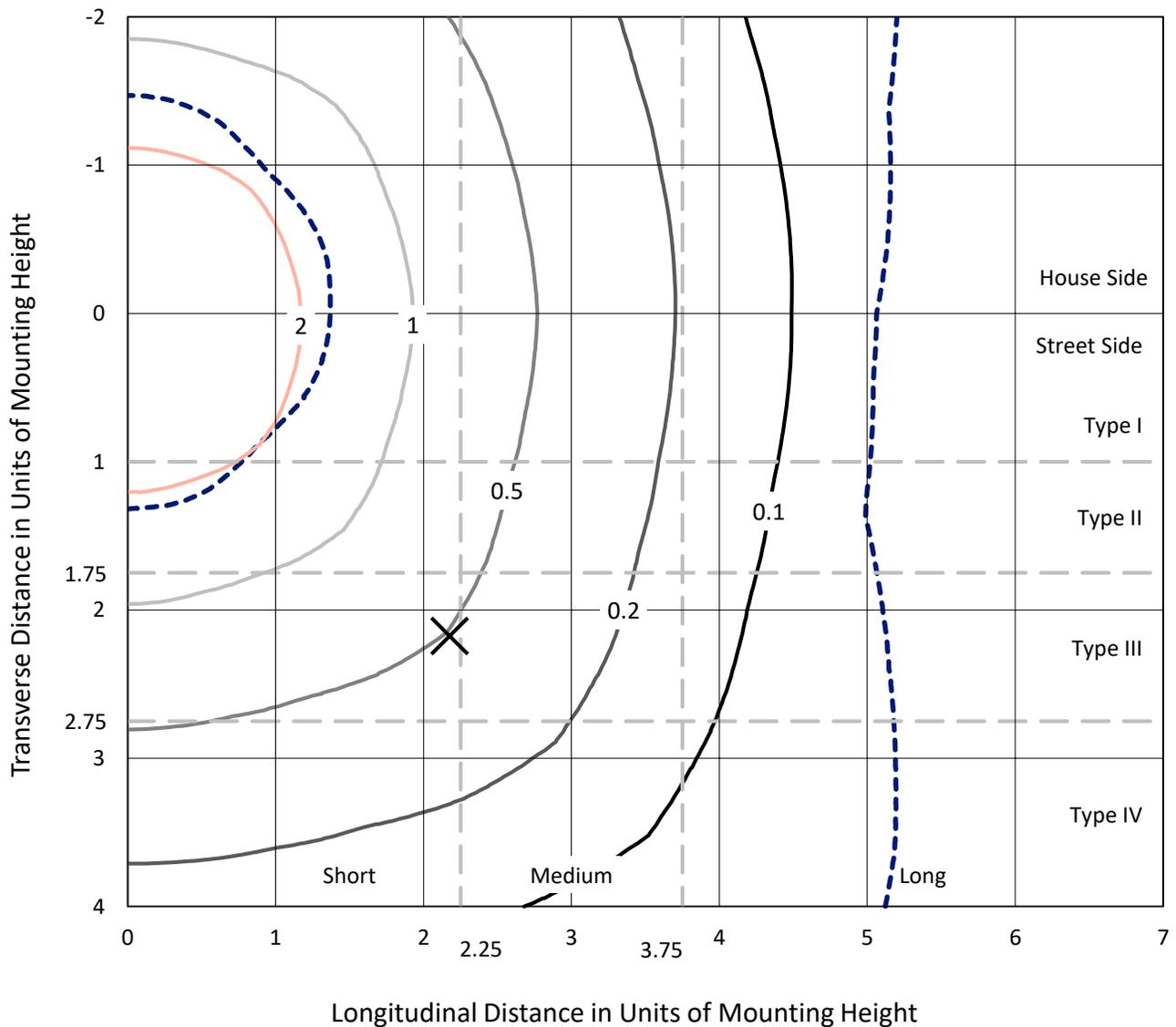
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

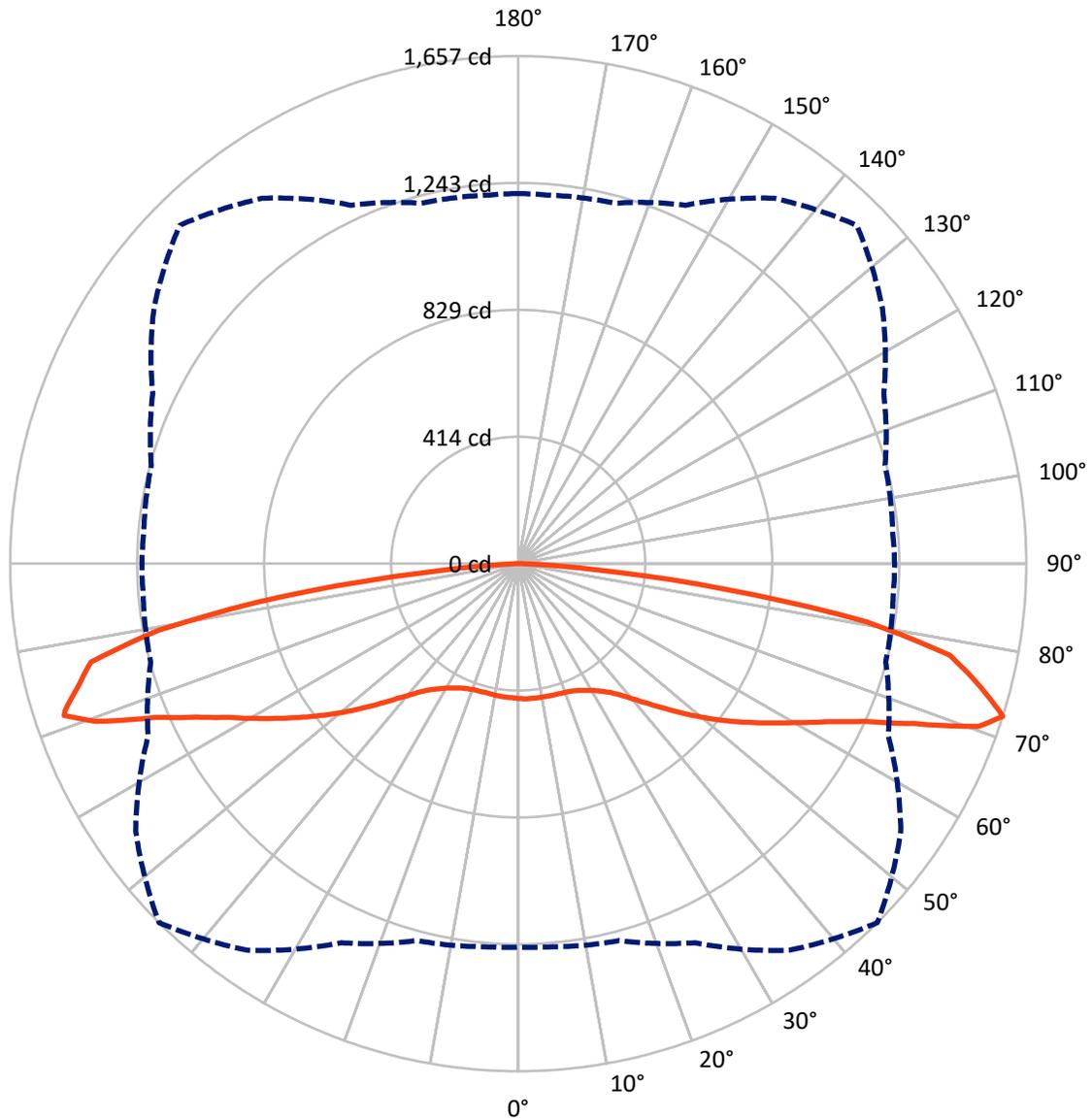


Based on 10 foot mounting height. Maximum calculated value = 4.4 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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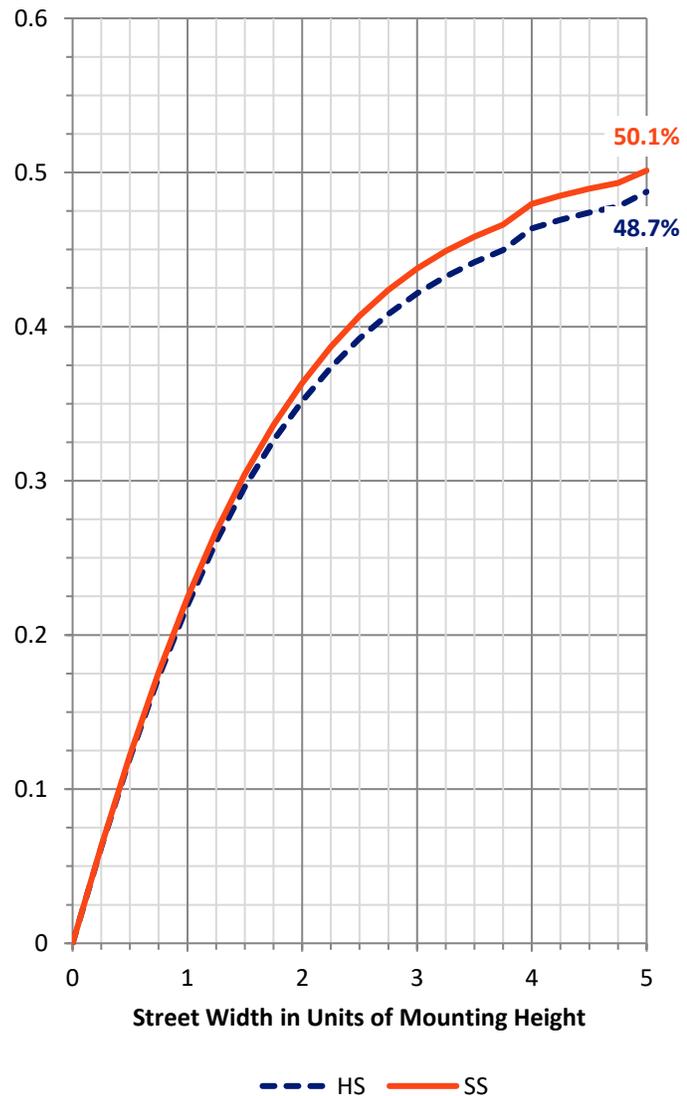
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2299.5	0.0	2299.5
	% Fixture	49.3	0.0	49.3
<b>Street Side</b>	Lumens	2363.4	0.0	2363.4
	% Fixture	50.7	0.0	50.7
<b>Total</b>	Lumens	4662.8	0.0	4662.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.0	0.9
10°-20°	124.8	2.7
20°-30°	209.7	4.5
30°-40°	319.2	6.8
40°-50°	504.6	10.8
50°-60°	770.7	16.5
60°-70°	1129.0	24.2
70°-80°	1282.7	27.5
80°-90°	280.2	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°	4662.8	100.0
0°-180°	4662.8	100.0



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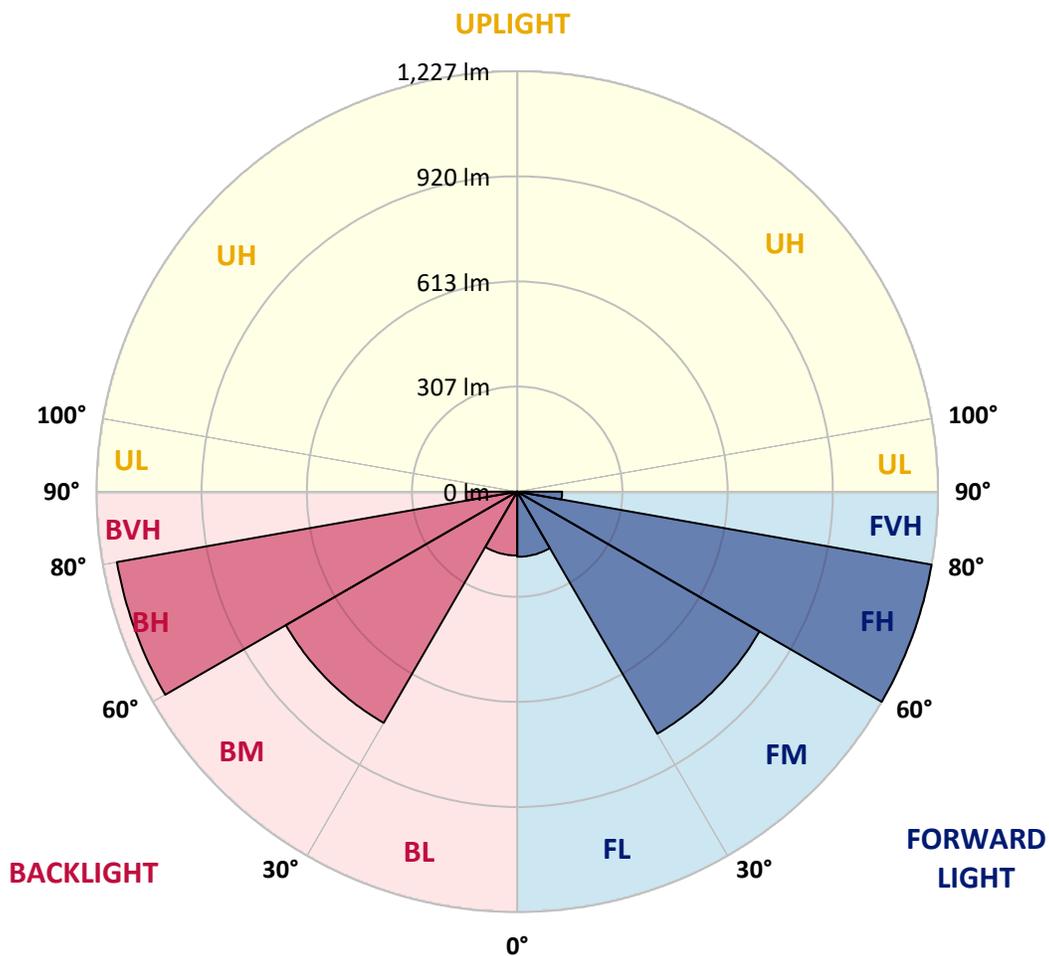
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	190.2	4.1			
FM (30°-60°)	815.5	17.5			
FH (60°-80°)	1226.7	26.3			G1/1800
FVH (80°-90°)	131.0	2.8			G2/225
BL (0°-30°)	186.4	4.0	B1/500		
BM (30°-60°)	778.9	16.7	B1/1000		
BH (60°-80°)	1185.0	25.4	B3/2500		G1/1800
BVH (80°-90°)	149.1	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°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	444.0	444.0	442.7	442.1	442.1	441.8	441.5	441.5	441.2	441.5	440.6
5°	444.6	444.6	443.3	442.7	442.4	442.1	442.1	441.5	441.2	441.5	440.6
7.5°	444.6	444.9	444.3	443.6	442.7	442.4	442.1	441.2	441.2	440.6	440.3
10°	445.8	446.7	445.5	444.6	443.3	442.7	441.8	441.2	440.9	440.3	440.3
12.5°	446.7	447.6	446.4	445.5	444.3	443.3	442.1	441.2	440.6	439.7	440.0
15°	447.9	448.8	447.6	446.4	445.2	444.0	442.7	441.5	440.6	440.0	440.0
17.5°	448.5	449.4	448.2	447.0	446.1	445.5	444.0	442.1	440.9	440.3	440.3
20°	449.4	450.3	449.4	448.8	447.9	447.6	446.1	444.0	442.4	441.5	441.2
22.5°	451.5	452.1	451.8	451.8	451.8	451.5	450.3	447.0	445.2	443.6	443.3
25°	456.6	456.3	456.9	457.5	457.8	458.4	456.6	453.0	450.6	448.2	447.9
27.5°	465.1	465.4	465.7	466.9	468.1	468.4	466.6	462.7	459.0	455.7	455.4
30°	474.7	474.7	475.9	478.3	479.5	480.4	478.6	473.8	469.3	466.0	465.4
32.5°	488.6	489.8	490.4	493.1	495.5	496.4	493.7	488.6	483.5	479.2	478.3
35°	508.5	510.3	510.9	513.3	516.0	516.3	513.9	508.2	502.8	497.0	497.3
37.5°	536.5	536.8	538.4	539.0	544.1	544.1	540.2	535.0	529.6	524.5	523.0
40°	573.9	574.2	574.8	573.9	580.0	581.8	576.7	568.8	563.7	557.1	556.1
42.5°	614.7	617.7	617.4	615.9	621.9	625.8	619.5	610.4	605.0	598.1	596.9
45°	665.0	664.4	661.7	665.0	672.0	676.2	668.3	656.9	651.1	642.4	642.1
47.5°	713.9	713.3	709.1	711.5	724.4	731.4	719.9	706.9	699.4	694.3	690.4
50°	760.3	764.5	759.1	764.2	781.1	790.5	779.9	759.4	750.4	742.5	740.4
52.5°	814.9	817.3	812.5	820.6	839.3	852.9	838.4	811.9	802.9	794.1	791.4
55°	870.7	869.5	867.1	876.1	899.1	915.0	899.4	867.4	854.1	847.5	847.5
57.5°	925.6	926.2	920.5	931.3	960.3	981.4	961.8	922.6	906.3	898.8	901.2
60°	984.4	984.4	975.7	985.6	1026.0	1052.9	1023.3	978.4	960.6	956.1	956.4
62.5°	1050.5	1048.1	1038.4	1050.8	1099.9	1135.5	1098.4	1042.3	1019.1	1019.1	1021.2
65°	1126.8	1122.8	1119.5	1133.7	1197.3	1240.8	1191.9	1121.0	1100.5	1098.1	1102.0
67.5°	1236.5	1240.8	1232.3	1251.0	1337.9	1394.6	1320.4	1229.0	1207.3	1205.2	1214.8
70°	1335.5	1331.3	1342.1	1394.9	1513.1	1592.1	1489.0	1348.4	1286.3	1273.6	1277.6
72°	1252.2	1255.5	1273.9	1365.6	1540.9	1657.0	1523.1	1331.9	1240.8	1227.5	1227.2
72.5°	1232.9	1235.3	1251.0	1339.1	1521.0	1639.8	1505.9	1310.7	1224.8	1213.3	1212.7
75°	1131.6	1136.4	1161.1	1246.8	1431.4	1543.3	1417.5	1235.0	1140.6	1118.9	1123.5
77.5°	963.9	973.9	998.9	1097.5	1314.1	1439.2	1304.7	1094.8	988.9	973.0	967.8
80°	707.2	694.0	739.2	826.7	980.8	1153.0	995.0	824.9	715.1	685.8	693.1
82.5°	240.7	246.4	317.9	424.3	538.4	673.2	571.5	413.2	304.3	267.5	251.2
85°	29.3	31.7	49.5	90.2	169.5	244.9	173.1	91.7	57.0	35.0	30.8
87.5°	14.2	15.1	21.1	22.6	28.0	23.8	28.4	18.1	17.2	10.6	8.7
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°	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3	440.3
2.5°	440.3	439.7	439.4	438.8	438.2	438.2	438.2	438.2	438.2	438.5
5°	440.3	439.7	439.4	438.5	437.9	437.9	437.6	437.9	437.6	437.9
7.5°	440.3	439.4	438.5	437.6	437.0	437.3	436.7	436.4	436.7	436.7
10°	440.0	438.5	437.3	436.4	436.1	435.8	435.8	435.5	436.1	435.8
12.5°	439.7	437.9	436.4	435.2	434.9	434.9	434.9	434.9	435.8	435.5
15°	439.4	437.6	436.1	434.6	434.3	434.9	434.9	435.5	436.1	436.1
17.5°	439.7	437.6	435.8	434.6	434.6	435.2	435.5	436.4	437.3	436.7
20°	440.9	438.5	437.0	435.8	436.4	437.0	437.0	437.6	438.5	437.9
22.5°	442.7	440.9	439.7	439.4	440.3	440.6	440.3	440.0	440.3	439.7
25°	447.0	445.2	444.3	445.5	446.4	446.1	444.9	443.6	443.0	442.7
27.5°	454.8	453.3	453.0	454.5	455.4	453.9	451.8	450.0	449.4	448.5
30°	464.5	463.6	464.5	466.0	466.3	463.9	460.8	458.1	457.2	457.2
32.5°	477.1	476.2	478.3	480.7	481.3	478.0	473.2	469.6	467.2	466.9
35°	495.5	494.9	495.5	498.5	498.2	494.9	489.5	485.3	482.9	482.9
37.5°	521.2	520.6	519.0	522.1	521.8	517.2	511.5	507.9	505.2	505.5
40°	554.6	553.7	551.9	552.5	554.9	548.9	541.7	536.8	536.5	536.5
42.5°	594.8	590.5	591.1	594.8	592.9	585.7	579.1	574.8	574.8	574.5
45°	638.5	637.0	636.4	637.6	639.1	633.4	622.2	617.4	617.1	617.1
47.5°	689.2	681.6	683.1	686.1	689.8	682.5	668.3	662.6	661.7	662.0
50°	738.6	730.8	732.3	738.6	745.5	734.1	716.6	709.7	708.5	709.1
52.5°	789.9	783.2	783.2	793.8	802.9	788.7	766.7	758.2	758.2	757.9
55°	844.2	835.1	838.7	852.3	863.2	846.0	818.8	812.2	807.1	809.2
57.5°	898.2	889.1	892.1	912.9	926.5	906.0	871.9	858.0	855.0	854.4
60°	953.3	943.1	946.7	979.3	995.3	968.1	918.1	901.2	898.5	898.2
62.5°	1014.6	1007.3	1012.8	1050.5	1068.9	1030.3	967.2	947.9	948.8	946.7
65°	1090.9	1085.1	1094.5	1140.6	1163.3	1106.6	1030.9	1008.5	1011.3	1011.0
67.5°	1200.1	1193.1	1198.8	1263.4	1283.6	1210.9	1119.2	1097.2	1101.4	1108.4
70°	1268.5	1273.6	1325.2	1415.7	1471.2	1397.0	1275.8	1234.4	1236.5	1237.5
72°	1225.7	1238.7	1315.3	1450.4	1561.7	1456.1	1291.1	1217.9	1207.0	1208.2
72.5°	1214.2	1224.2	1301.1	1435.9	1554.1	1443.4	1274.6	1205.2	1187.7	1188.3
75°	1128.0	1147.0	1220.9	1361.1	1487.8	1379.8	1210.6	1136.7	1123.1	1123.1
77.5°	979.3	1005.8	1081.5	1278.5	1430.5	1312.9	1129.5	1038.1	1024.2	1019.1
80°	720.5	759.4	833.9	1028.4	1192.5	1085.1	929.8	835.7	814.0	806.2
82.5°	283.8	317.3	442.4	619.5	786.0	668.9	505.8	421.9	354.7	347.4
85°	35.3	57.0	111.6	204.2	312.2	222.0	132.4	69.4	37.4	31.4
87.5°	10.3	19.3	21.1	34.4	40.7	37.4	23.5	21.1	11.8	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)