

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: P507733

Luminaire Tested: **VERD-S-CA1-80-730-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-730-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1500mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10561 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

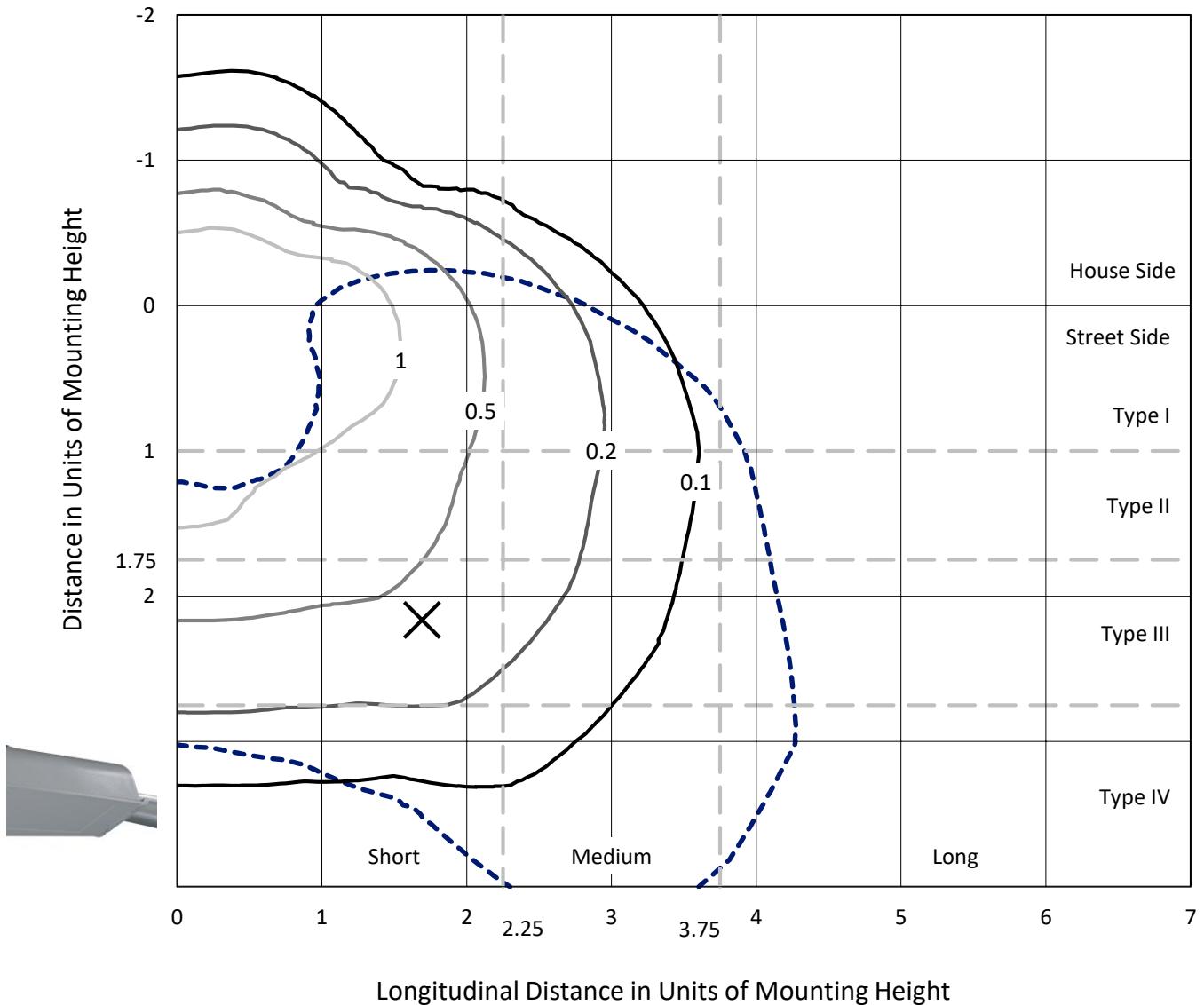
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

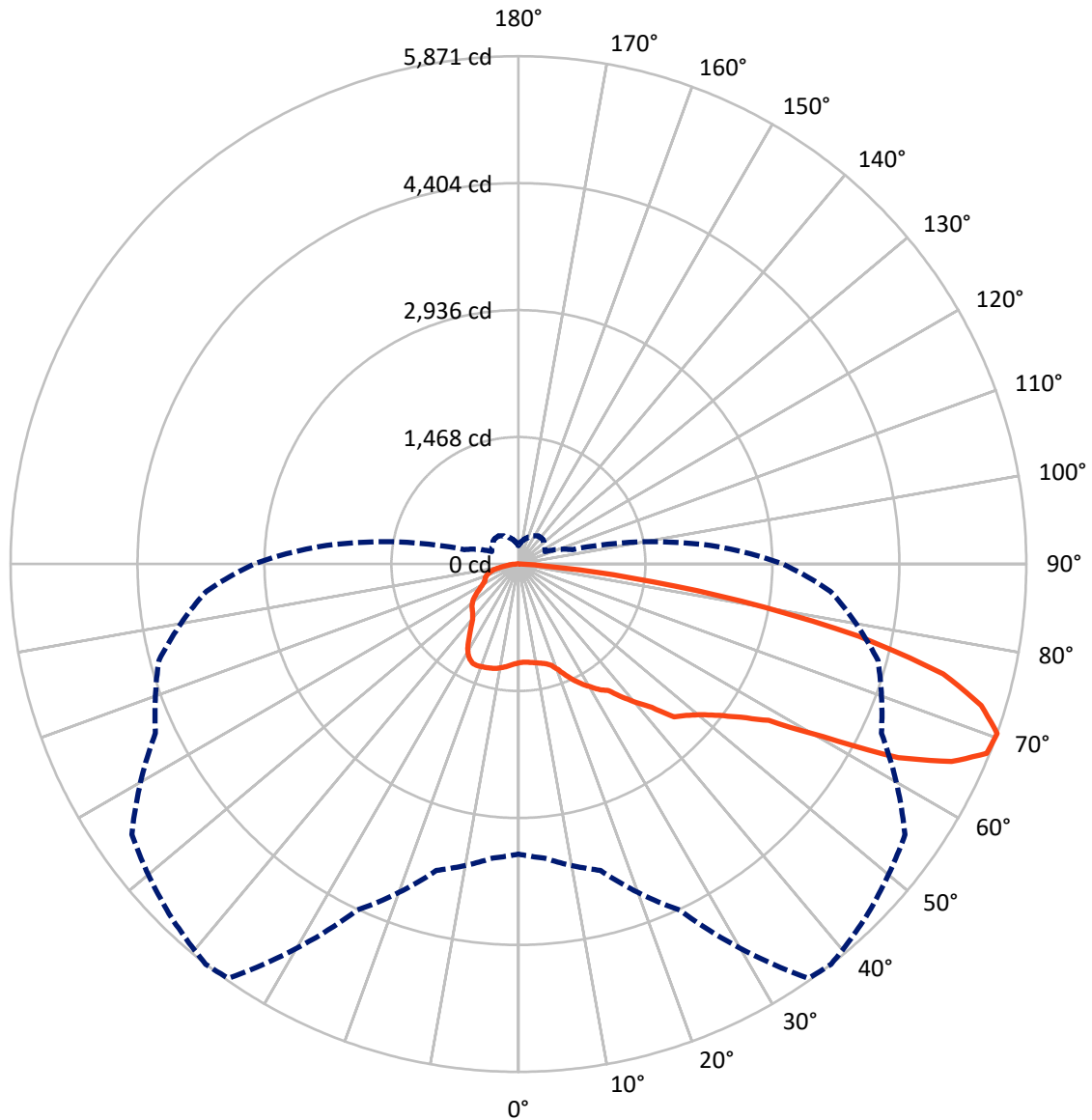
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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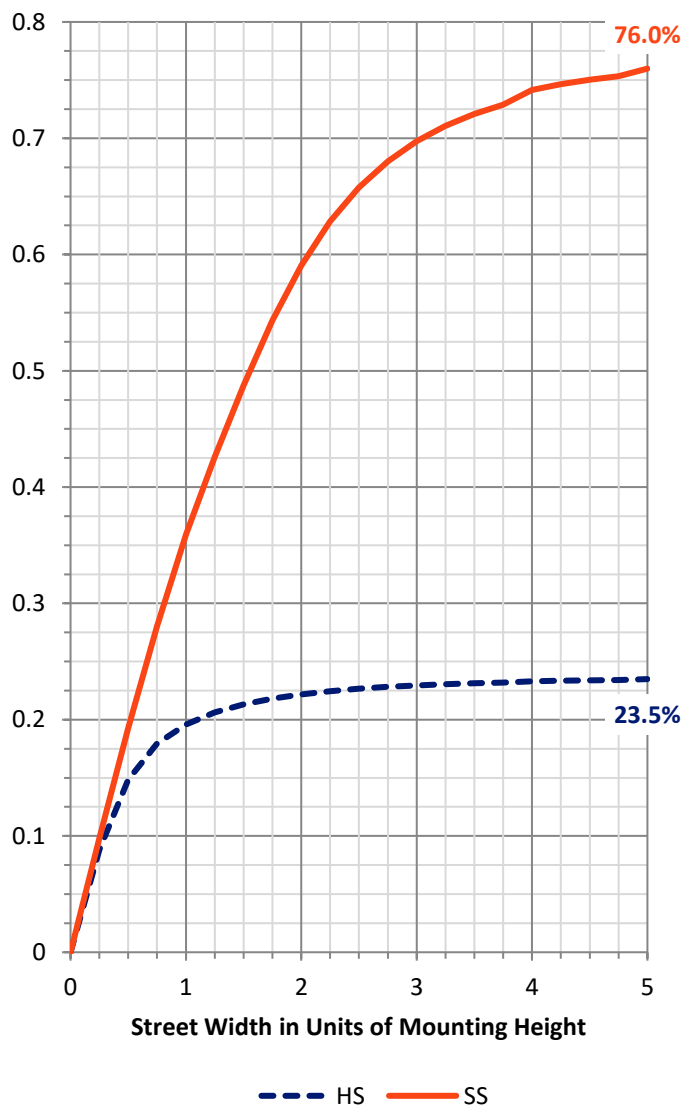
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2508.3	0.0	2508.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8052.7	0.0	8052.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	10561.0	0.0	10561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	1.1
10°-20°	350.6	3.3
20°-30°	650.6	6.2
30°-40°	1007.2	9.5
40°-50°	1492.5	14.1
50°-60°	2079.6	19.7
60°-70°	2670.6	25.3
70°-80°	1953.9	18.5
80°-90°	244.8	2.3
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°	10561.0	100.0
0°-180°	10561.0	100.0

Coefficient of Utilization



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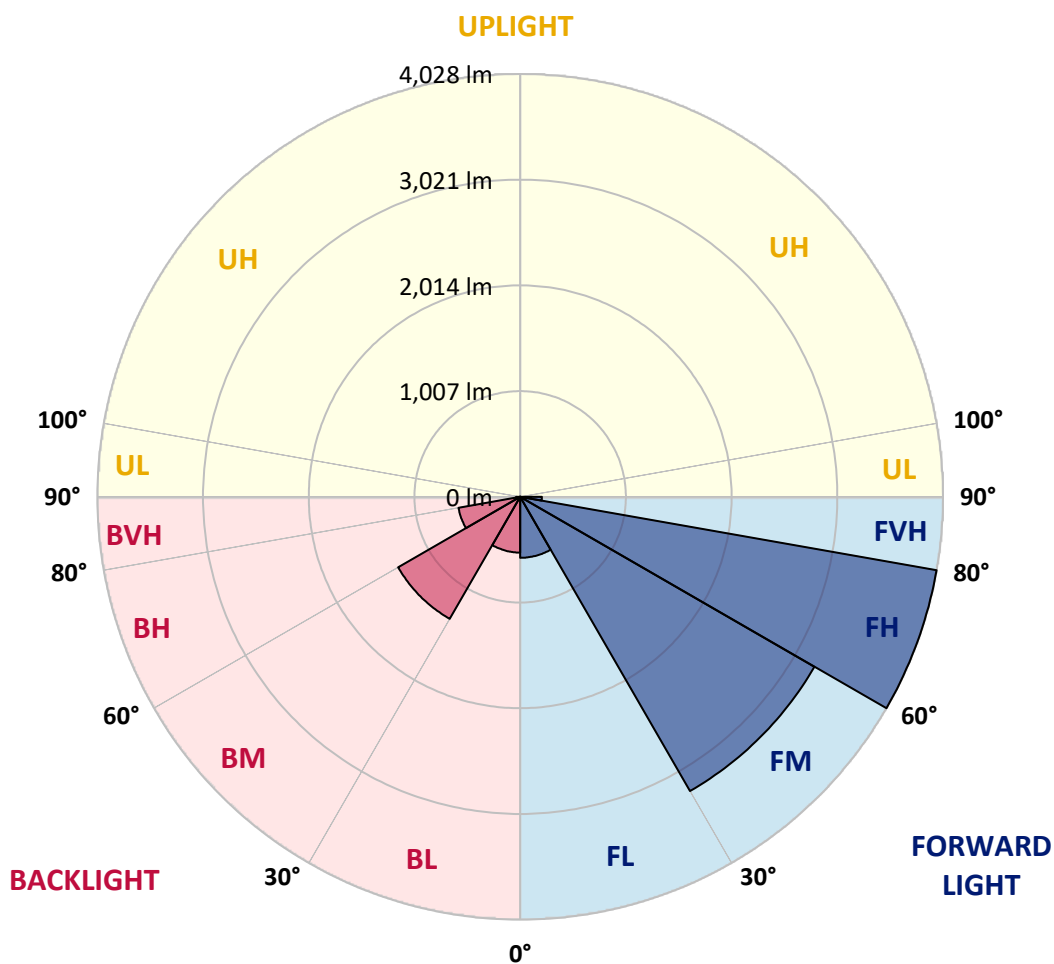
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	581.1	5.5			
FM (30°-60°)	3236.7	30.6			
FH (60°-80°)	4028.0	38.1			G2/5000
FVH (80°-90°)	206.8	2.0			G2/225
BL (0°-30°)	531.4	5.0	B2/1000		
BM (30°-60°)	1342.6	12.7	B2/2500		
BH (60°-80°)	596.5	5.6	B2/1000		G2/1000
BVH (80°-90°)	37.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2
2.5°	1138.1	1138.1	1138.1	1135.1	1135.1	1135.1	1132.1	1132.1	1135.1	1138.1	1138.1
5°	1147.2	1147.2	1144.2	1144.2	1141.2	1141.2	1141.2	1138.1	1138.1	1138.1	1144.2
7.5°	1150.2	1150.2	1150.2	1150.2	1150.2	1150.2	1153.2	1150.2	1150.2	1150.2	1156.2
10°	1150.2	1150.2	1153.2	1153.2	1159.2	1162.2	1165.2	1171.3	1171.3	1171.3	1174.3
12.5°	1156.2	1156.2	1159.2	1162.2	1171.3	1177.3	1183.3	1192.3	1195.4	1195.4	1198.4
15°	1168.3	1168.3	1171.3	1180.3	1192.3	1195.4	1204.4	1216.4	1228.5	1231.5	1234.5
17.5°	1216.4	1216.4	1216.4	1216.4	1228.5	1231.5	1243.5	1261.6	1273.6	1279.7	1288.7
20°	1312.8	1315.8	1309.8	1306.8	1300.7	1300.7	1300.7	1309.8	1324.8	1345.9	1361.0
22.5°	1436.2	1436.2	1436.2	1412.1	1397.1	1394.1	1394.1	1391.1	1403.1	1424.2	1445.3
25°	1532.6	1535.6	1532.6	1511.5	1493.4	1487.4	1487.4	1496.5	1496.5	1514.5	1538.6
27.5°	1610.9	1616.9	1607.9	1589.8	1574.7	1571.7	1574.7	1601.8	1616.9	1628.9	1659.0
30°	1695.2	1698.2	1677.1	1665.1	1656.0	1650.0	1653.0	1692.2	1743.4	1758.4	1809.6
32.5°	1851.7	1851.7	1821.6	1752.4	1728.3	1731.3	1731.3	1782.5	1851.7	1921.0	1987.2
35°	1999.3	1996.3	1969.2	1909.0	1818.6	1797.5	1809.6	1863.8	1972.2	2089.6	2207.0
37.5°	2173.9	2167.9	2143.8	2059.5	1984.2	1951.1	1884.9	1957.1	2089.6	2321.5	2441.9
40°	2369.6	2360.6	2306.4	2222.1	2122.7	2107.7	2050.5	2062.5	2237.1	2565.3	2703.8
42.5°	2478.0	2472.0	2435.9	2366.6	2294.4	2264.2	2216.1	2201.0	2435.9	2881.5	2950.7
45°	2580.4	2592.4	2592.4	2559.3	2529.2	2523.2	2490.1	2502.1	2691.8	3140.4	3167.5
47.5°	2643.6	2655.7	2616.5	2610.5	2610.5	2613.5	2646.6	2727.9	2923.7	3384.3	3357.2
50°	2833.3	2824.3	2667.7	2691.8	2718.9	2737.0	2809.2	2938.7	3245.8	3604.1	3522.8
52.5°	3176.6	3095.3	2908.6	2854.4	2869.5	2905.6	3001.9	3170.6	3574.0	3799.8	3667.4
55°	3601.1	3552.9	3384.3	3143.5	3065.2	3125.4	3227.8	3399.4	3826.9	3983.5	3781.8
57.5°	3887.2	3905.2	3926.3	3760.7	3396.4	3411.4	3480.7	3625.2	4079.9	4161.2	3872.1
60°	4176.2	4197.3	4314.7	4272.6	4188.3	4049.8	3796.8	3866.1	4269.6	4278.6	3938.3
62.5°	4405.0	4420.1	4594.7	4691.1	4910.9	4929.0	4534.5	4170.2	4468.3	4371.9	3965.4
65°	4290.6	4317.7	4579.7	4847.7	5452.9	5504.1	5374.6	4561.6	4621.8	4408.1	3944.4
67.5°	3905.2	3944.4	4221.4	4790.5	5799.1	5838.3	5711.8	5299.3	4676.0	4393.0	3842.0
70°	3354.2	3411.4	3667.4	4414.1	5847.3	5871.4	5714.8	5455.9	4630.9	4302.7	3622.2
72.5°	2727.9	2773.1	3032.0	3784.8	5555.2	5594.4	5546.2	5326.4	4534.5	4128.0	3179.6
75°	2089.6	2092.6	2366.6	2965.8	4916.9	5073.5	5154.8	5076.5	4272.6	3631.2	2447.9
77.5°	1318.8	1357.9	1638.0	2246.2	3863.1	4022.7	4058.8	3962.4	2989.9	2228.1	1053.8
80°	593.2	653.4	939.4	1517.5	2628.6	2622.6	2643.6	2405.8	1592.8	707.6	117.4
82.5°	213.8	225.8	394.4	761.8	1273.6	1306.8	1291.7	1111.0	430.6	99.4	72.3
85°	90.3	96.4	129.5	204.7	289.1	307.1	265.0	201.7	69.3	57.2	48.2
87.5°	6.0	6.0	6.0	6.0	6.0	9.0	9.0	9.0	9.0	12.0	15.1
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2
2.5°	1138.1	1141.2	1144.2	1150.2	1150.2	1153.2	1156.2	1159.2	1159.2	1159.2	1159.2
5°	1147.2	1150.2	1153.2	1162.2	1168.3	1171.3	1177.3	1180.3	1183.3	1183.3	1183.3
7.5°	1159.2	1162.2	1168.3	1177.3	1186.3	1192.3	1198.4	1201.4	1204.4	1204.4	1204.4
10°	1177.3	1183.3	1192.3	1204.4	1213.4	1213.4	1216.4	1219.4	1222.5	1222.5	1222.5
12.5°	1201.4	1207.4	1222.5	1237.5	1240.5	1237.5	1231.5	1231.5	1228.5	1225.5	1225.5
15°	1240.5	1243.5	1264.6	1276.7	1267.6	1252.6	1240.5	1228.5	1219.4	1213.4	1213.4
17.5°	1294.7	1303.7	1324.8	1324.8	1300.7	1273.6	1243.5	1213.4	1189.3	1180.3	1177.3
20°	1373.0	1385.0	1403.1	1385.0	1345.9	1297.7	1243.5	1195.4	1147.2	1117.1	1108.0
22.5°	1460.3	1475.4	1481.4	1442.3	1385.0	1318.8	1246.5	1171.3	1093.0	1026.7	1008.7
25°	1562.7	1571.7	1550.6	1487.4	1409.1	1324.8	1237.5	1138.1	1017.7	930.4	921.4
27.5°	1683.1	1674.1	1616.9	1520.5	1415.2	1312.8	1204.4	1071.9	921.4	855.1	846.1
30°	1812.6	1779.5	1674.1	1538.6	1397.1	1276.7	1147.2	972.5	849.1	794.9	788.9
32.5°	1966.2	1899.9	1728.3	1541.6	1364.0	1213.4	1053.8	891.2	800.9	740.7	734.7
35°	2137.8	2035.4	1776.5	1523.6	1297.7	1126.1	942.4	831.0	749.7	692.5	680.5
37.5°	2369.6	2219.1	1836.7	1484.4	1213.4	1014.7	861.1	767.8	698.5	635.3	626.3
40°	2607.5	2429.9	1921.0	1439.2	1120.1	924.4	791.9	722.6	662.4	590.1	575.1
42.5°	2845.4	2640.6	2035.4	1385.0	1026.7	855.1	761.8	716.6	644.3	569.1	554.0
45°	3041.1	2821.3	2143.8	1321.8	933.4	791.9	743.7	704.6	632.3	551.0	532.9
47.5°	3209.7	2971.8	2237.1	1264.6	843.1	743.7	728.7	683.5	614.2	532.9	514.9
50°	3351.2	3092.3	2312.4	1216.4	767.8	710.6	698.5	644.3	572.1	502.8	490.8
52.5°	3474.7	3179.6	2345.5	1201.4	692.5	671.4	650.4	596.2	529.9	466.7	448.6
55°	3556.0	3245.8	2339.5	1201.4	620.3	617.2	593.2	551.0	502.8	451.6	433.6
57.5°	3619.2	3275.9	2294.4	1026.7	560.0	548.0	532.9	514.9	484.8	427.6	409.5
60°	3649.3	3257.9	2198.0	746.7	499.8	478.7	490.8	484.8	454.7	376.4	364.3
62.5°	3631.2	3203.7	1981.2	545.0	436.6	433.6	451.6	439.6	382.4	313.1	307.1
65°	3562.0	3068.2	1704.2	409.5	400.5	421.5	430.6	406.5	352.3	289.1	265.0
67.5°	3384.3	2806.2	1240.5	367.3	388.4	412.5	418.5	385.4	331.2	271.0	240.9
70°	3056.1	2312.4	644.3	340.2	370.3	400.5	397.4	355.3	301.1	246.9	210.8
72.5°	2478.0	1641.0	243.9	304.1	343.3	373.4	367.3	319.2	213.8	153.6	138.5
75°	1607.9	785.9	210.8	262.0	307.1	334.2	337.2	289.1	186.7	129.5	111.4
77.5°	551.0	144.5	171.6	216.8	265.0	301.1	292.1	231.8	144.5	96.4	87.3
80°	93.3	96.4	132.5	153.6	183.7	240.9	204.7	165.6	114.4	69.3	57.2
82.5°	66.2	81.3	93.3	90.3	126.5	159.6	138.5	111.4	75.3	54.2	48.2
85°	48.2	54.2	51.2	54.2	72.3	105.4	96.4	78.3	54.2	39.1	33.1
87.5°	18.1	18.1	24.1	30.1	45.2	66.2	57.2	24.1	21.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)