

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: P507717

Luminaire Tested: **VERD-S-CA1-80-722-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507717
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-CA1-80-722-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1500mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8766 lumens
Efficiency: N/A
Efficacy: 105.5 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

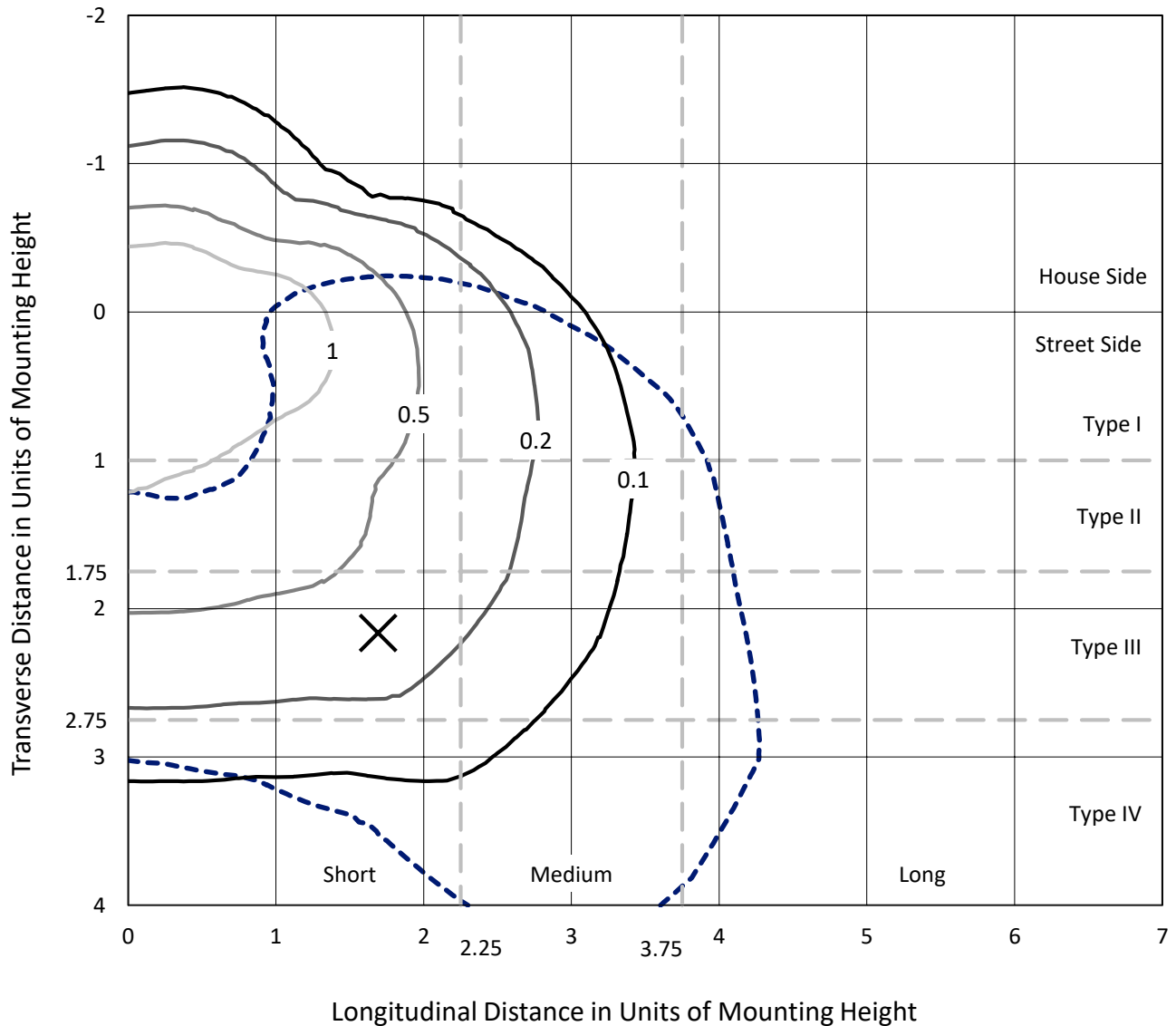
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

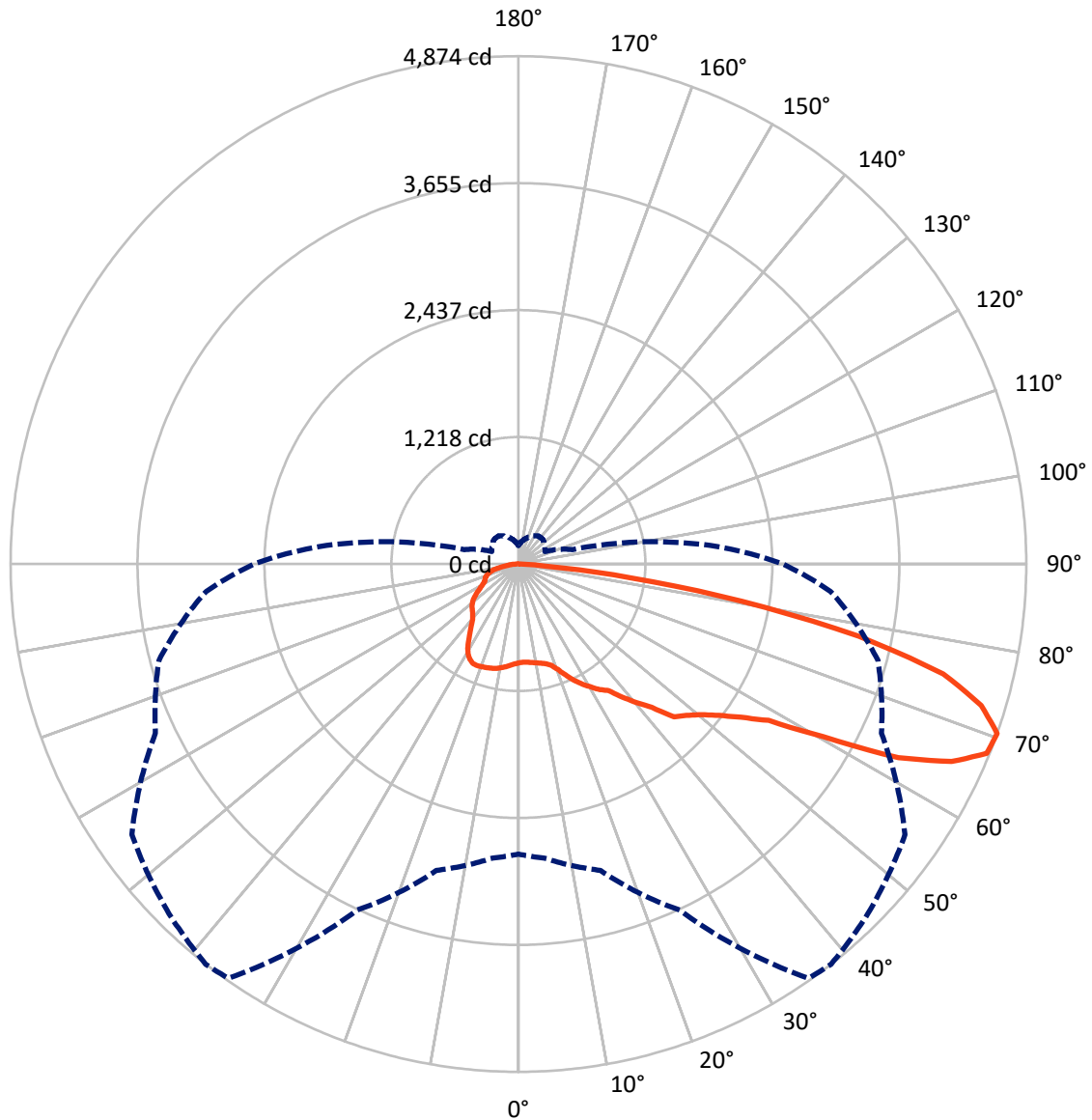
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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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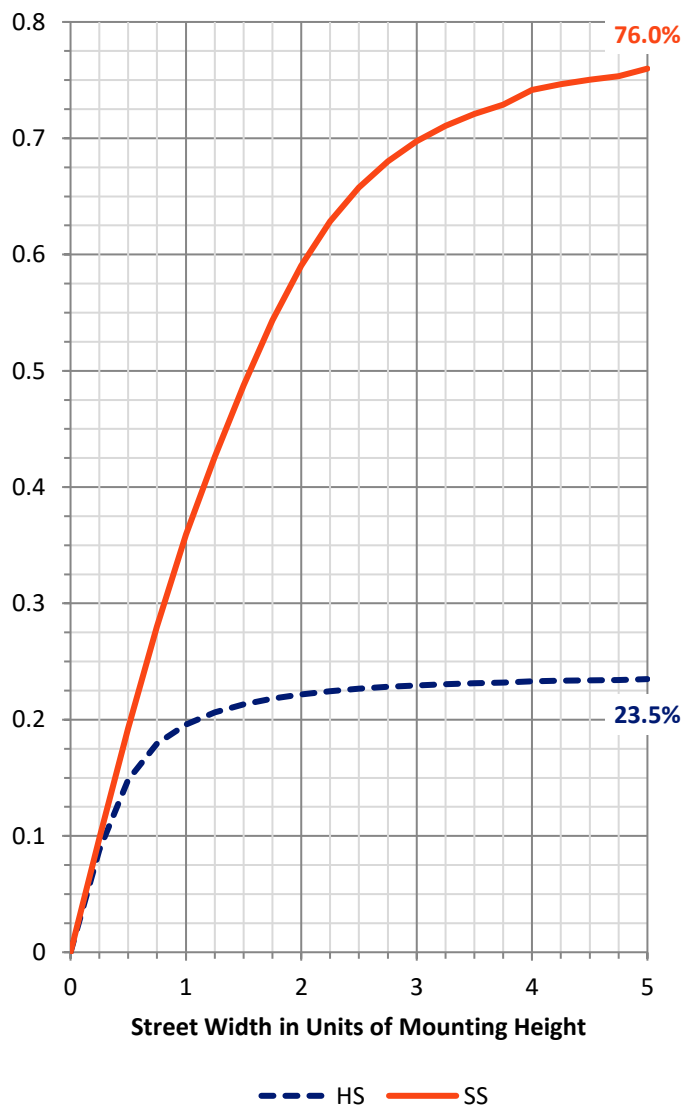
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2082.0	0.0	2082.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	6684.0	0.0	6684.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	8766.0	0.0	8766.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	1.1
10°-20°	291.0	3.3
20°-30°	540.0	6.2
30°-40°	836.0	9.5
40°-50°	1238.8	14.1
50°-60°	1726.1	19.7
60°-70°	2216.7	25.3
70°-80°	1621.8	18.5
80°-90°	203.2	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°	8766.0	100.0
0°-180°	8766.0	100.0

Coefficient of Utilization



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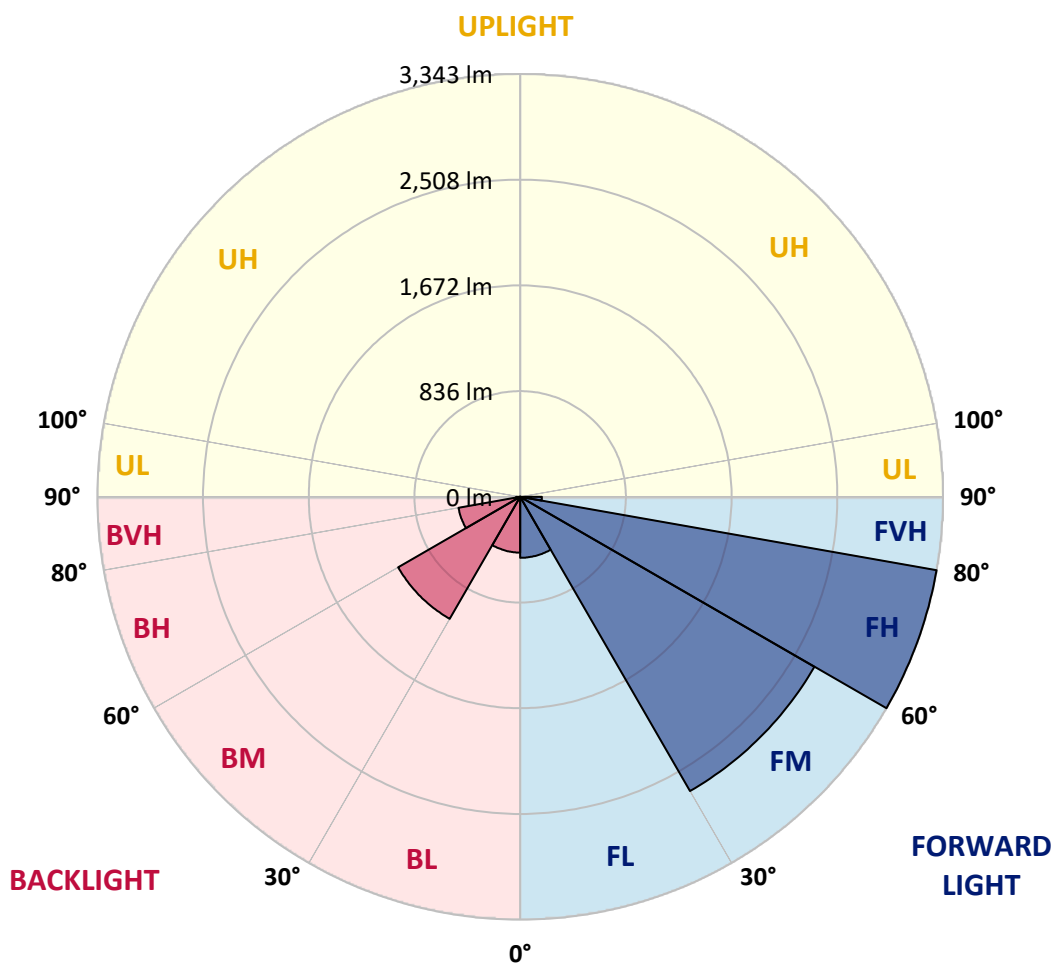
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	482.4	5.5			
FM	(30°-60°)	2686.6	30.6			
FH	(60°-80°)	3343.4	38.1			G2/5000
FVH	(80°-90°)	171.7	2.0			G2/225
BL	(0°-30°)	441.1	5.0	B1/500		
BM	(30°-60°)	1114.4	12.7	B2/2500		
BH	(60°-80°)	495.1	5.6	B1/500		G1/500
BVH	(80°-90°)	31.5	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°	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2
2.5°	944.7	944.7	944.7	942.2	942.2	942.2	939.7	939.7	942.2	944.7	944.7
5°	952.2	952.2	949.7	949.7	947.2	947.2	947.2	944.7	944.7	944.7	949.7
7.5°	954.7	954.7	954.7	954.7	954.7	954.7	957.2	954.7	954.7	954.7	959.7
10°	954.7	954.7	957.2	957.2	962.2	964.7	967.2	972.2	972.2	972.2	974.7
12.5°	959.7	959.7	962.2	964.7	972.2	977.2	982.2	989.7	992.2	992.2	994.7
15°	969.7	969.7	972.2	979.7	989.7	992.2	999.7	1009.7	1019.7	1022.2	1024.7
17.5°	1009.7	1009.7	1009.7	1009.7	1019.7	1022.2	1032.2	1047.2	1057.2	1062.2	1069.7
20°	1089.7	1092.2	1087.2	1084.7	1079.7	1079.7	1079.7	1087.2	1099.7	1117.1	1129.6
22.5°	1192.1	1192.1	1192.1	1172.1	1159.6	1157.1	1157.1	1154.6	1164.6	1182.1	1199.6
25°	1272.1	1274.6	1272.1	1254.6	1239.6	1234.6	1234.6	1242.1	1242.1	1257.1	1277.1
27.5°	1337.1	1342.1	1334.6	1319.6	1307.1	1304.6	1307.1	1329.6	1342.1	1352.1	1377.1
30°	1407.1	1409.6	1392.1	1382.1	1374.6	1369.6	1372.1	1404.6	1447.0	1459.5	1502.0
32.5°	1537.0	1537.0	1512.0	1454.5	1434.5	1437.0	1437.0	1479.5	1537.0	1594.5	1649.5
35°	1659.5	1657.0	1634.5	1584.5	1509.5	1492.0	1502.0	1547.0	1637.0	1734.5	1831.9
37.5°	1804.4	1799.4	1779.4	1709.5	1647.0	1619.5	1564.5	1624.5	1734.5	1926.9	2026.9
40°	1966.9	1959.4	1914.4	1844.4	1761.9	1749.4	1702.0	1712.0	1856.9	2129.3	2244.3
42.5°	2056.8	2051.9	2021.9	1964.4	1904.4	1879.4	1839.4	1826.9	2021.9	2391.7	2449.2
45°	2141.8	2151.8	2151.8	2124.3	2099.3	2094.3	2066.8	2076.8	2234.3	2606.7	2629.2
47.5°	2194.3	2204.3	2171.8	2166.8	2166.8	2169.3	2196.8	2264.3	2426.7	2809.1	2786.6
50°	2351.8	2344.3	2214.3	2234.3	2256.8	2271.8	2331.8	2439.2	2694.1	2991.6	2924.1
52.5°	2636.7	2569.2	2414.2	2369.3	2381.7	2411.7	2491.7	2631.7	2966.6	3154.0	3044.0
55°	2989.1	2949.1	2809.1	2609.2	2544.2	2594.2	2679.2	2821.6	3176.5	3306.5	3139.0
57.5°	3226.5	3241.5	3259.0	3121.5	2819.1	2831.6	2889.1	3009.0	3386.4	3453.9	3214.0
60°	3466.4	3483.9	3581.4	3546.4	3476.4	3361.4	3151.5	3209.0	3543.9	3551.4	3269.0
62.5°	3656.3	3668.8	3813.8	3893.8	4076.2	4091.2	3763.8	3461.4	3708.8	3628.9	3291.5
65°	3561.4	3583.9	3801.3	4023.7	4526.1	4568.6	4461.1	3786.3	3836.3	3658.8	3274.0
67.5°	3241.5	3274.0	3503.9	3976.2	4813.5	4846.0	4741.0	4398.6	3881.3	3646.3	3189.0
70°	2784.1	2831.6	3044.0	3663.8	4853.5	4873.5	4743.5	4528.6	3843.8	3571.4	3006.5
72.5°	2264.3	2301.8	2516.7	3141.5	4611.0	4643.5	4603.5	4421.1	3763.8	3426.4	2639.2
75°	1734.5	1737.0	1964.4	2461.7	4081.2	4211.2	4278.6	4213.7	3546.4	3014.0	2031.9
77.5°	1094.7	1127.1	1359.6	1864.4	3206.5	3338.9	3368.9	3289.0	2481.7	1849.4	874.7
80°	492.3	542.3	779.8	1259.6	2181.8	2176.8	2194.3	1996.9	1322.1	587.3	97.5
82.5°	177.4	187.4	327.4	632.3	1057.2	1084.7	1072.2	922.2	357.4	82.5	60.0
85°	75.0	80.0	107.5	169.9	239.9	254.9	219.9	167.4	57.5	47.5	40.0
87.5°	5.0	5.0	5.0	5.0	5.0	7.5	7.5	7.5	7.5	10.0	12.5
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°	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2	947.2
2.5°	944.7	947.2	949.7	954.7	954.7	957.2	959.7	962.2	962.2	962.2	962.2
5°	952.2	954.7	957.2	964.7	969.7	972.2	977.2	979.7	982.2	982.2	982.2
7.5°	962.2	964.7	969.7	977.2	984.7	989.7	994.7	997.2	999.7	999.7	999.7
10°	977.2	982.2	989.7	999.7	1007.2	1007.2	1009.7	1012.2	1014.7	1014.7	1014.7
12.5°	997.2	1002.2	1014.7	1027.2	1029.7	1027.2	1022.2	1022.2	1019.7	1017.2	1017.2
15°	1029.7	1032.2	1049.7	1059.7	1052.2	1039.7	1029.7	1019.7	1012.2	1007.2	1007.2
17.5°	1074.7	1082.2	1099.7	1099.7	1079.7	1057.2	1032.2	1007.2	987.2	979.7	977.2
20°	1139.6	1149.6	1164.6	1149.6	1117.1	1077.2	1032.2	992.2	952.2	927.2	919.7
22.5°	1212.1	1224.6	1229.6	1197.1	1149.6	1094.7	1034.7	972.2	907.2	852.2	837.2
25°	1297.1	1304.6	1287.1	1234.6	1169.6	1099.7	1027.2	944.7	844.7	772.3	764.8
27.5°	1397.1	1389.6	1342.1	1262.1	1174.6	1089.7	999.7	889.7	764.8	709.8	702.3
30°	1504.5	1477.0	1389.6	1277.1	1159.6	1059.7	952.2	807.2	704.8	659.8	654.8
32.5°	1632.0	1577.0	1434.5	1279.6	1132.1	1007.2	874.7	739.8	664.8	614.8	609.8
35°	1774.4	1689.5	1474.5	1264.6	1077.2	934.7	782.3	689.8	622.3	574.8	564.8
37.5°	1966.9	1841.9	1524.5	1232.1	1007.2	842.2	714.8	637.3	579.8	527.3	519.8
40°	2164.3	2016.9	1594.5	1194.6	929.7	767.3	657.3	599.8	549.8	489.8	477.3
42.5°	2361.8	2191.8	1689.5	1149.6	852.2	709.8	632.3	594.8	534.8	472.4	459.9
45°	2524.2	2341.8	1779.4	1097.2	774.8	657.3	617.3	584.8	524.8	457.4	442.4
47.5°	2664.2	2466.7	1856.9	1049.7	699.8	617.3	604.8	567.3	509.8	442.4	427.4
50°	2781.6	2566.7	1919.4	1009.7	637.3	589.8	579.8	534.8	474.8	417.4	407.4
52.5°	2884.1	2639.2	1946.9	997.2	574.8	557.3	539.8	494.8	439.9	387.4	372.4
55°	2951.6	2694.1	1941.9	997.2	514.8	512.3	492.3	457.4	417.4	374.9	359.9
57.5°	3004.0	2719.1	1904.4	852.2	464.9	454.9	442.4	427.4	402.4	354.9	339.9
60°	3029.0	2704.1	1824.4	619.8	414.9	397.4	407.4	402.4	377.4	312.4	302.4
62.5°	3014.0	2659.2	1644.5	452.4	362.4	359.9	374.9	364.9	317.4	259.9	254.9
65°	2956.6	2546.7	1414.6	339.9	332.4	349.9	357.4	337.4	292.4	239.9	219.9
67.5°	2809.1	2329.3	1029.7	304.9	322.4	342.4	347.4	319.9	274.9	224.9	199.9
70°	2536.7	1919.4	534.8	282.4	307.4	332.4	329.9	294.9	249.9	204.9	174.9
72.5°	2056.8	1362.1	202.4	252.4	284.9	309.9	304.9	264.9	177.4	127.5	115.0
75°	1334.6	652.3	174.9	217.4	254.9	277.4	279.9	239.9	155.0	107.5	92.5
77.5°	457.4	120.0	142.5	179.9	219.9	249.9	242.4	192.4	120.0	80.0	72.5
80°	77.5	80.0	110.0	127.5	152.5	199.9	169.9	137.5	95.0	57.5	47.5
82.5°	55.0	67.5	77.5	75.0	105.0	132.5	115.0	92.5	62.5	45.0	40.0
85°	40.0	45.0	42.5	45.0	60.0	87.5	80.0	65.0	45.0	32.5	27.5
87.5°	15.0	15.0	20.0	25.0	37.5	55.0	47.5	20.0	17.5	15.0	15.0
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)