

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: P507562

Luminaire Tested: **VERD-S-CA1-40-760-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-760-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 760mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5653 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

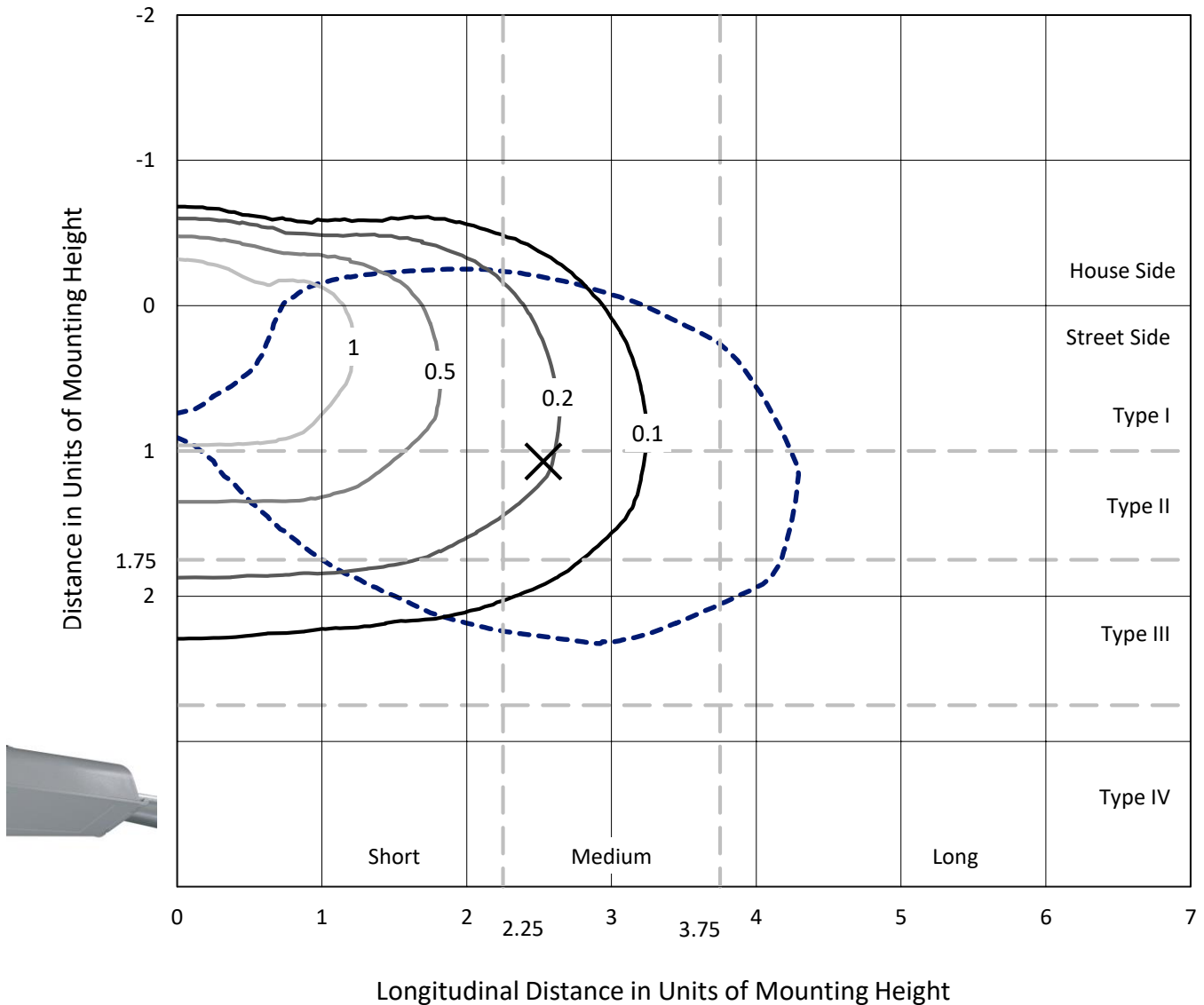
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

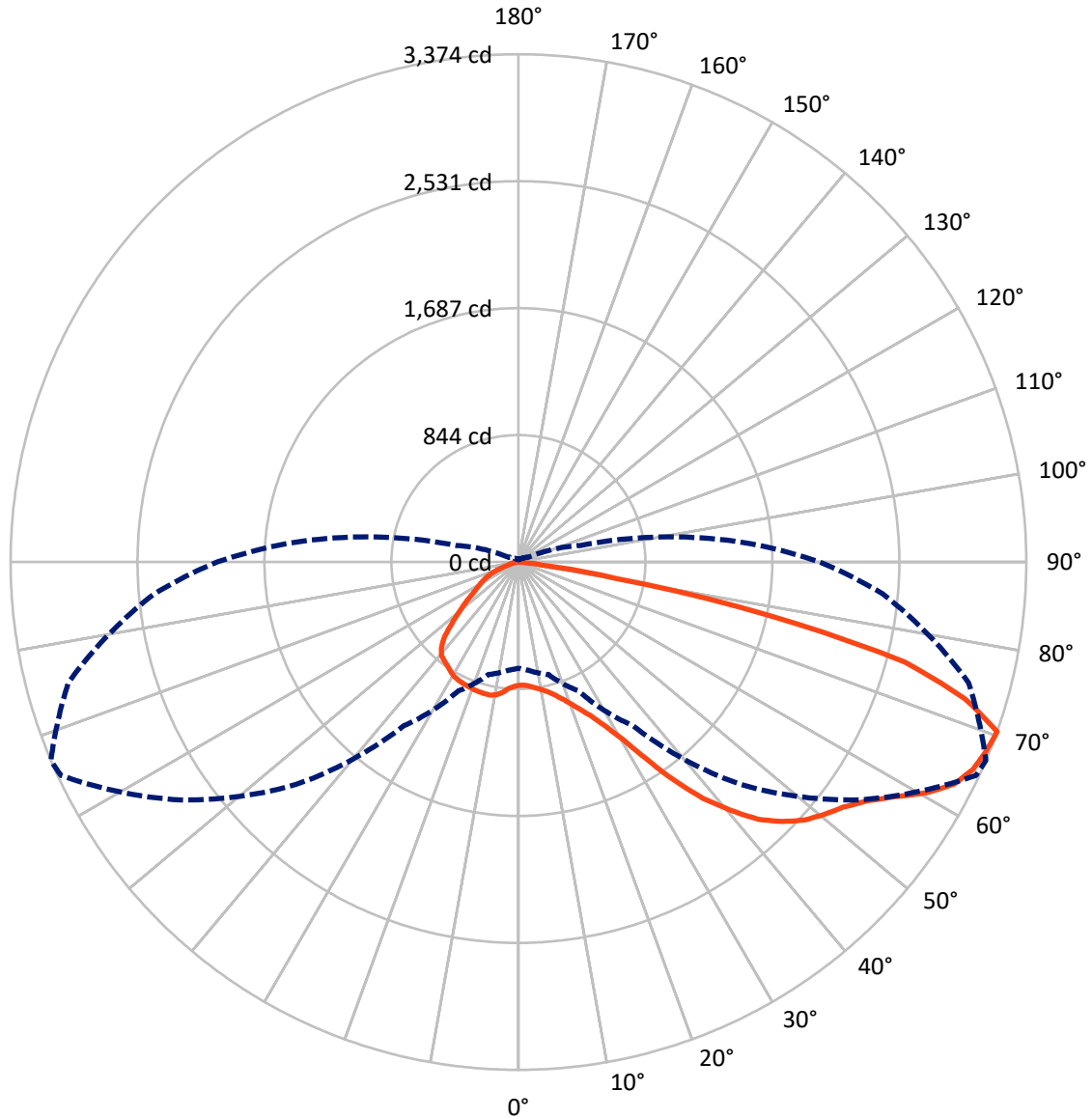
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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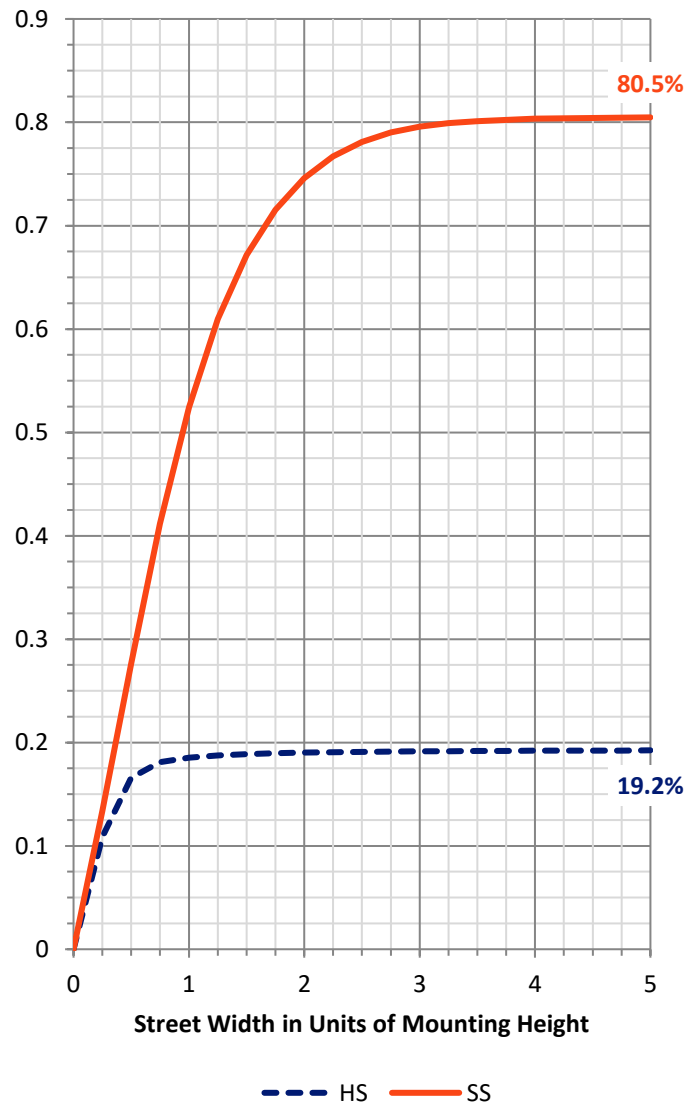
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1101.7	0.0	1101.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4551.3	0.0	4551.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	5653.0	0.0	5653.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	1.5
10°-20°	261.0	4.6
20°-30°	453.5	8.0
30°-40°	710.1	12.6
40°-50°	999.2	17.7
50°-60°	1191.7	21.1
60°-70°	1234.9	21.8
70°-80°	681.4	12.1
80°-90°	38.8	0.7
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°	5653.0	100.0
0°-180°	5653.0	100.0



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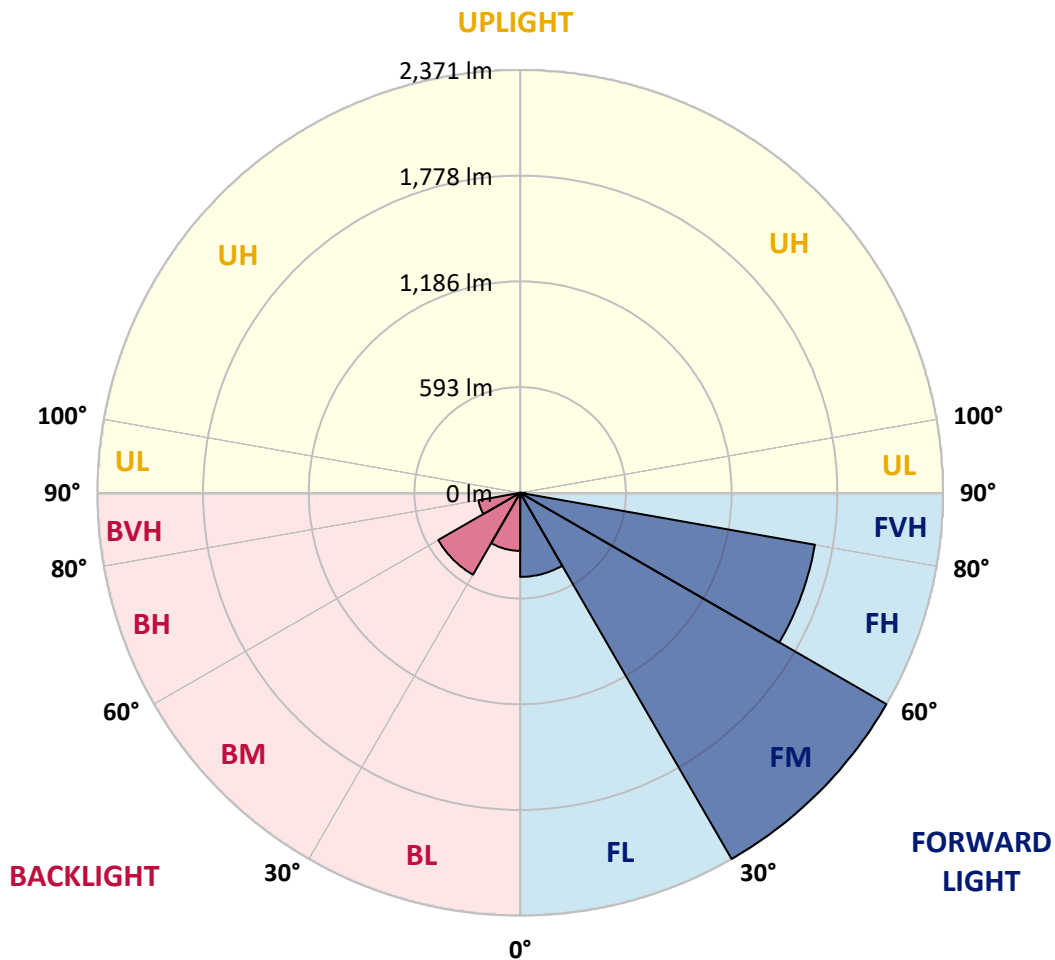
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.6	8.3			
FM (30°-60°)	2371.1	41.9			
FH (60°-80°)	1678.5	29.7			G1/1800
FVH (80°-90°)	30.1	0.5			G1/100
BL (0°-30°)	325.3	5.8	B1/500		
BM (30°-60°)	529.9	9.4	B1/1000		
BH (60°-80°)	237.8	4.2	B1/500		G1/500
BVH (80°-90°)	8.6	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	823.8	823.8	823.8	822.1	822.1	822.1	820.4	818.7	818.7	818.7	820.4
5°	846.1	846.1	844.4	842.7	841.0	835.8	832.4	830.7	830.7	828.9	832.4
7.5°	873.6	873.6	873.6	870.1	865.0	858.1	851.3	846.1	844.4	842.7	844.4
10°	914.8	914.8	911.3	906.2	897.6	887.3	875.3	865.0	863.3	859.8	863.3
12.5°	968.0	962.8	959.4	950.8	940.5	923.3	904.5	889.0	885.6	882.2	894.2
15°	1022.9	1021.2	1012.6	1007.4	990.3	968.0	942.2	921.6	918.2	911.3	921.6
17.5°	1088.1	1089.8	1086.4	1077.8	1053.8	1021.2	990.3	961.1	957.7	952.5	957.7
20°	1177.3	1173.9	1167.1	1155.0	1127.6	1084.7	1045.2	1012.6	1007.4	1004.0	998.9
22.5°	1266.6	1268.3	1254.6	1242.6	1208.2	1167.1	1113.8	1074.4	1067.5	1065.8	1041.8
25°	1352.4	1355.8	1350.7	1335.2	1306.1	1252.9	1194.5	1146.5	1137.9	1136.2	1095.0
27.5°	1441.7	1443.4	1448.5	1441.7	1410.8	1355.8	1290.6	1235.7	1235.7	1222.0	1160.2
30°	1527.5	1530.9	1534.3	1534.3	1518.9	1470.8	1414.2	1366.1	1366.1	1355.8	1249.4
32.5°	1594.4	1596.1	1616.7	1633.9	1633.9	1599.5	1561.8	1556.6	1554.9	1573.8	1453.7
35°	1654.5	1659.6	1688.8	1735.1	1754.0	1740.3	1742.0	1760.9	1779.8	1826.1	1735.1
37.5°	1699.1	1706.0	1733.4	1786.6	1839.8	1875.9	1910.2	1961.7	1990.9	2061.2	1935.9
40°	1711.1	1719.7	1778.0	1853.6	1939.4	2021.7	2083.5	2147.0	2165.9	2215.7	2057.8
42.5°	1673.3	1681.9	1755.7	1908.5	2028.6	2157.3	2224.3	2304.9	2337.5	2318.7	2159.0
45°	1647.6	1652.7	1730.0	1903.3	2105.8	2289.5	2354.7	2438.8	2459.4	2414.8	2243.1
47.5°	1615.0	1620.1	1700.8	1896.5	2169.3	2402.8	2447.4	2540.1	2560.6	2492.0	2315.2
50°	1566.9	1570.4	1663.0	1882.7	2210.5	2483.4	2533.2	2625.9	2634.4	2564.1	2383.9
52.5°	1508.6	1518.9	1608.1	1850.1	2239.7	2533.2	2593.3	2692.8	2704.8	2656.8	2459.4
55°	1429.6	1441.7	1544.6	1802.1	2229.4	2550.3	2620.7	2782.0	2802.6	2763.2	2522.9
57.5°	1349.0	1366.1	1467.4	1735.1	2188.2	2576.1	2711.7	2914.2	2941.7	2867.9	2574.4
60°	1266.6	1273.5	1378.1	1644.2	2119.6	2601.8	2814.7	3087.5	3113.3	2970.8	2615.6
62.5°	1172.2	1180.8	1273.5	1518.9	2001.1	2577.8	2891.9	3233.4	3248.9	3056.6	2632.7
65°	1062.4	1062.4	1141.3	1366.1	1841.5	2492.0	2902.2	3308.9	3319.2	3111.6	2612.1
67.5°	909.6	916.5	980.0	1177.3	1627.0	2323.8	2843.8	3326.1	3351.8	3145.9	2555.5
70°	705.4	720.8	774.0	943.9	1328.4	2090.4	2756.3	3353.6	3374.1	3096.1	2428.5
72.5°	482.3	497.7	545.8	647.0	957.7	1676.8	2493.7	3094.4	3099.5	2854.1	2181.4
75°	127.0	140.7	178.5	259.2	401.6	1127.6	1994.3	2620.7	2651.6	2468.0	1800.3
77.5°	37.8	37.8	46.3	60.1	82.4	230.0	1014.3	1669.9	1700.8	1627.0	1122.4
80°	29.2	29.2	34.3	41.2	53.2	118.4	351.8	616.1	653.9	698.5	463.4
82.5°	18.9	20.6	22.3	24.0	24.0	48.1	94.4	157.9	156.2	169.9	149.3
85°	12.0	12.0	10.3	10.3	8.6	12.0	8.6	10.3	12.0	12.0	13.7
87.5°	1.7	0.0	0.0	0.0	0.0	1.7	1.7	3.4	3.4	3.4	5.1
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°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	822.1	823.8	825.5	827.2	830.7	830.7	832.4	832.4	832.4	832.4	832.4
5°	832.4	834.1	839.2	844.4	856.4	863.3	870.1	875.3	875.3	878.7	878.7
7.5°	847.8	853.0	868.4	875.3	885.6	895.9	901.0	902.7	906.2	906.2	906.2
10°	873.6	878.7	890.7	895.9	901.0	901.0	899.3	897.6	892.5	890.7	892.5
12.5°	897.6	904.5	904.5	902.7	897.6	890.7	882.2	873.6	865.0	858.1	858.1
15°	926.8	923.3	913.0	899.3	885.6	868.4	851.3	835.8	822.1	816.9	816.9
17.5°	952.5	943.9	921.6	895.9	866.7	839.2	811.8	786.0	762.0	753.4	748.3
20°	983.4	968.0	928.5	889.0	847.8	804.9	758.6	712.2	671.1	653.9	652.2
22.5°	1019.5	993.7	938.8	878.7	823.8	758.6	681.4	616.1	574.9	554.3	550.9
25°	1062.4	1024.6	949.1	870.1	794.6	698.5	595.5	521.7	470.3	447.9	439.4
27.5°	1115.6	1065.8	962.8	859.8	750.0	624.7	508.0	422.2	365.6	338.1	334.7
30°	1184.2	1115.6	976.5	844.4	695.1	538.9	413.6	317.5	260.9	233.4	226.5
32.5°	1342.1	1216.8	993.7	818.7	626.4	456.5	312.4	212.8	156.2	130.4	128.7
35°	1609.8	1445.1	1033.2	784.3	557.8	358.7	200.8	113.3	84.1	73.8	73.8
37.5°	1810.6	1635.6	1139.6	739.7	468.5	240.3	103.0	66.9	53.2	51.5	51.5
40°	1930.8	1748.9	1256.3	689.9	362.1	128.7	63.5	51.5	48.1	46.3	46.3
42.5°	2030.3	1843.3	1311.2	628.1	230.0	72.1	53.2	48.1	44.6	42.9	42.9
45°	2112.7	1915.3	1318.1	549.2	128.7	60.1	49.8	42.9	41.2	39.5	39.5
47.5°	2177.9	1977.1	1300.9	437.6	80.7	56.6	46.3	39.5	36.0	36.0	36.0
50°	2239.7	2030.3	1252.9	345.0	75.5	53.2	42.9	36.0	34.3	34.3	34.3
52.5°	2296.3	2068.1	1172.2	278.0	70.4	49.8	41.2	34.3	30.9	32.6	32.6
55°	2342.7	2083.5	1089.8	214.5	66.9	48.1	39.5	32.6	29.2	29.2	29.2
57.5°	2368.4	2050.9	1021.2	163.0	65.2	46.3	37.8	30.9	25.7	24.0	24.0
60°	2370.1	2008.0	957.7	137.3	61.8	42.9	36.0	27.5	22.3	20.6	20.6
62.5°	2339.2	1956.5	861.6	118.4	58.4	41.2	32.6	25.7	20.6	18.9	18.9
65°	2279.2	1865.6	755.2	101.3	56.6	41.2	29.2	24.0	20.6	17.2	17.2
67.5°	2183.1	1714.5	612.7	89.2	53.2	37.8	29.2	22.3	18.9	17.2	17.2
70°	2001.1	1498.3	423.9	77.2	49.8	34.3	27.5	22.3	18.9	15.4	15.4
72.5°	1724.8	1216.8	209.4	63.5	42.9	34.3	27.5	20.6	17.2	15.4	15.4
75°	1333.5	871.9	127.0	51.5	34.3	30.9	25.7	20.6	17.2	13.7	13.7
77.5°	784.3	387.9	91.0	39.5	25.7	24.0	22.3	18.9	15.4	13.7	13.7
80°	286.6	164.8	66.9	30.9	20.6	20.6	17.2	15.4	13.7	12.0	12.0
82.5°	111.6	87.5	44.6	22.3	17.2	15.4	13.7	12.0	10.3	10.3	10.3
85°	15.4	15.4	15.4	12.0	10.3	10.3	8.6	8.6	6.9	6.9	6.9
87.5°	5.1	5.1	5.1	6.9	5.1	5.1	3.4	3.4	3.4	5.1	5.1
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)