

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: P507491

Luminaire Tested: **VERD-S-CA1-30-730-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507491
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-30-730-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 590mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4689.8 lumens
Efficiency: N/A
Efficacy: 137.9 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): 34
Input Voltage (V): NR
Input Current (A_{in}): 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

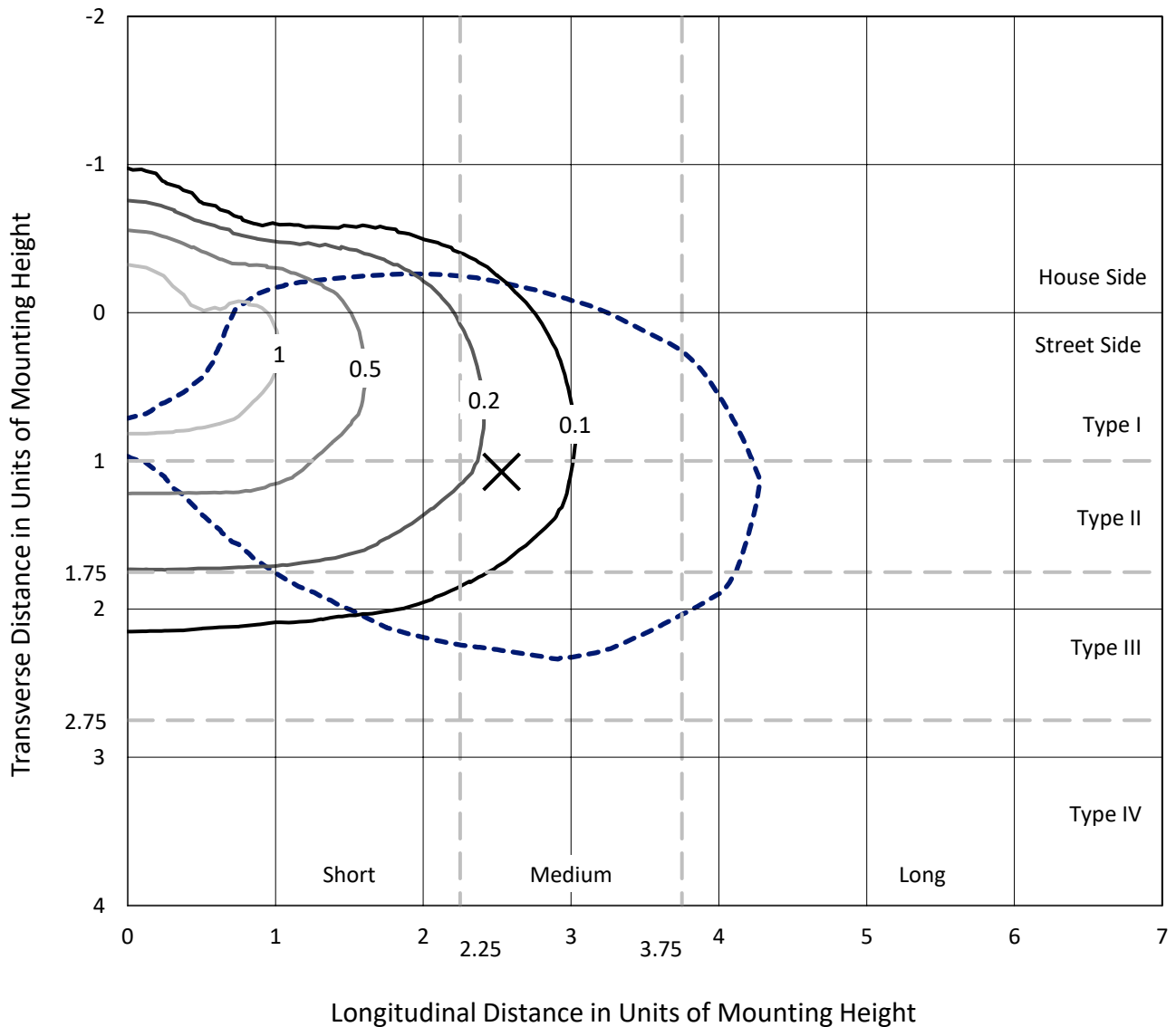




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Iso-Footcandle Lines of Horizontal Illumination

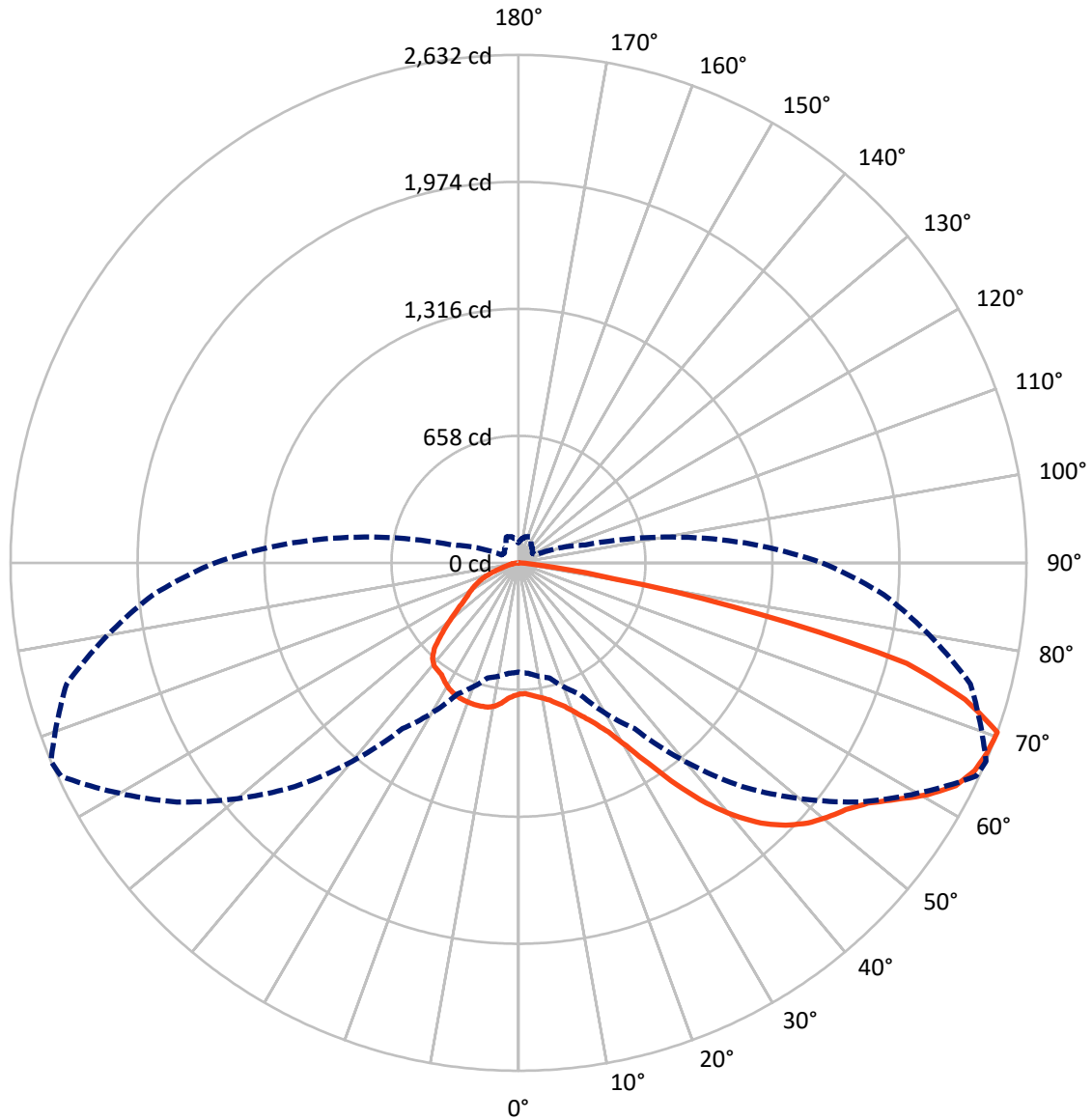
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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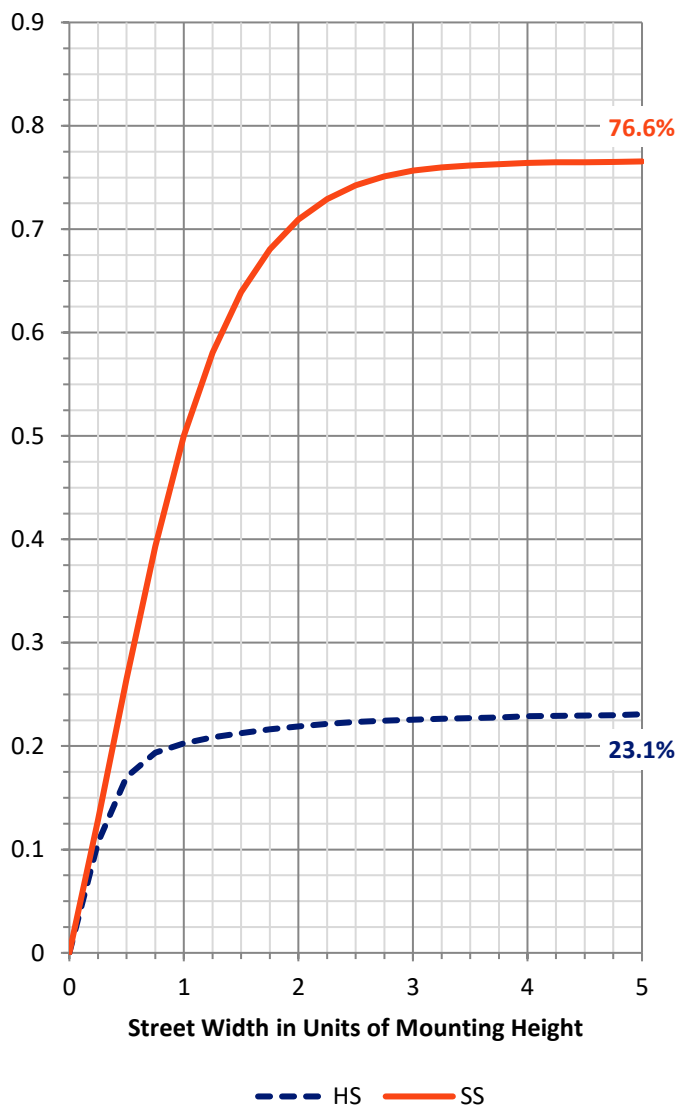
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.3	0.0	1097.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	3592.6	0.0	3592.6
	% Fixture	76.6	0.0	76.6
Total	Lumens	4689.8	0.0	4689.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.5
10°-20°	222.3	4.7
20°-30°	392.1	8.4
30°-40°	601.0	12.8
40°-50°	819.2	17.5
50°-60°	969.4	20.7
60°-70°	1010.6	21.5
70°-80°	565.3	12.1
80°-90°	40.9	0.9
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°	4689.8	100.0
0°-180°	4689.8	100.0

Coefficient of Utilization

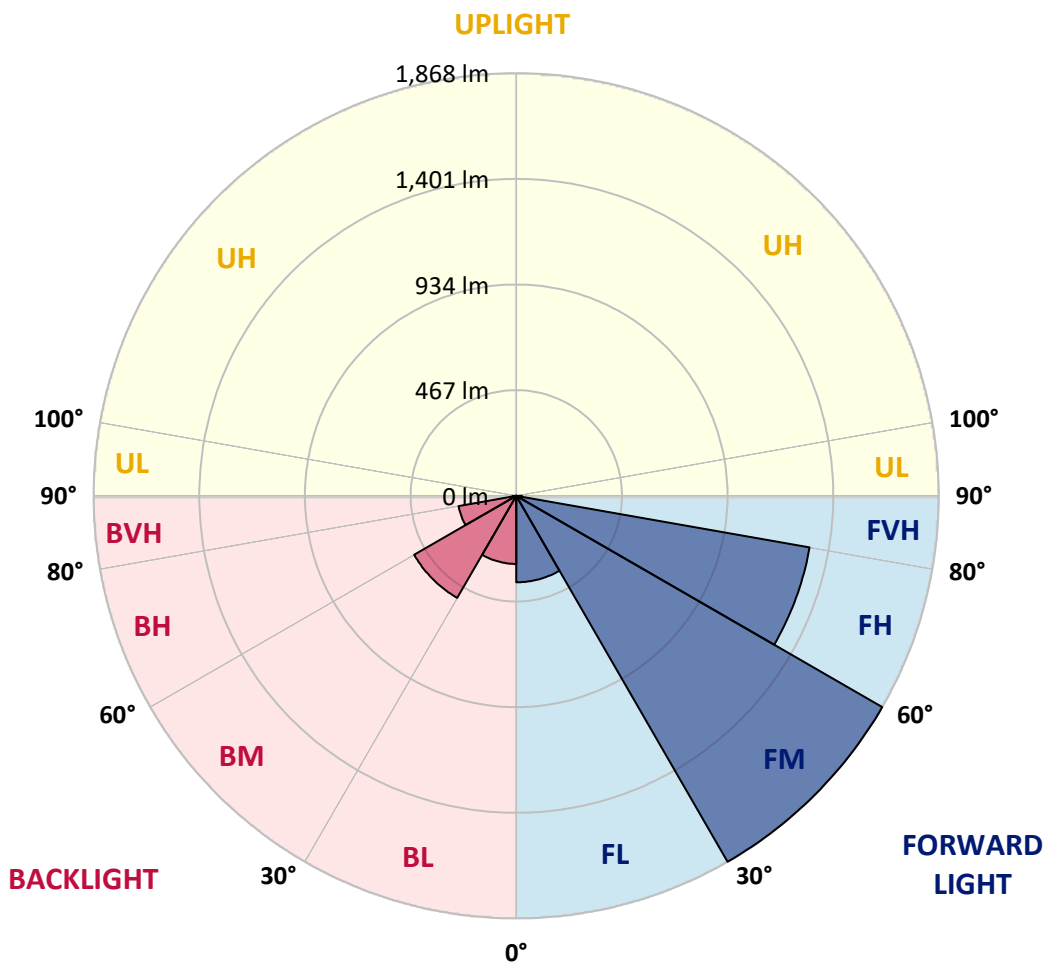


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.2	8.2			
FM (30°-60°)	1868.4	39.8			
FH (60°-80°)	1316.8	28.1			G1/1800
FVH (80°-90°)	25.1	0.5			G1/100
BL (0°-30°)	301.2	6.4	B1/500		
BM (30°-60°)	521.2	11.1	B1/1000		
BH (60°-80°)	259.1	5.5	B1/500		G1/500
BVH (80°-90°)	15.8	0.3			G1/100
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°	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2
2.5°	682.9	682.9	682.9	681.6	681.6	681.6	680.2	679.0	679.0	680.2	680.2
5°	700.3	700.3	698.9	697.6	695.0	692.2	689.6	688.3	688.3	688.3	689.6
7.5°	724.2	722.9	720.2	718.9	714.9	710.8	705.5	700.3	700.3	697.6	700.3
10°	753.5	753.5	749.5	746.9	741.6	730.9	722.9	714.9	713.6	710.8	714.9
12.5°	790.8	790.8	788.0	781.5	773.4	760.1	745.5	732.2	730.9	726.8	734.9
15°	836.0	832.0	830.7	825.3	810.7	793.5	773.4	756.2	756.2	749.5	758.8
17.5°	886.7	885.3	884.0	877.3	860.0	834.6	808.1	788.0	784.1	780.1	785.4
20°	947.9	946.5	945.2	934.5	914.6	884.0	852.0	825.3	822.7	818.8	814.7
22.5°	1018.4	1018.4	1013.1	1005.0	977.1	941.2	902.5	869.3	869.3	865.4	846.7
25°	1086.3	1083.6	1081.0	1071.7	1049.0	1010.5	965.1	926.6	921.2	921.2	889.3
27.5°	1148.9	1148.9	1152.9	1147.5	1124.9	1085.0	1039.7	995.7	993.1	987.8	938.5
30°	1214.1	1216.8	1218.1	1218.1	1207.4	1176.8	1127.6	1094.3	1099.6	1086.3	1011.7
32.5°	1263.4	1266.0	1283.4	1299.3	1289.9	1272.7	1244.7	1234.0	1239.4	1250.0	1168.9
35°	1310.0	1314.0	1337.9	1371.2	1385.8	1377.8	1381.9	1400.5	1412.5	1455.0	1384.5
37.5°	1344.6	1348.5	1369.9	1411.1	1455.0	1477.7	1515.0	1556.2	1578.9	1633.4	1532.3
40°	1353.9	1360.6	1404.4	1460.3	1527.0	1594.8	1640.1	1693.3	1721.3	1746.6	1632.1
42.5°	1321.9	1328.6	1385.8	1503.0	1596.1	1700.0	1749.3	1822.4	1845.1	1830.5	1709.3
45°	1302.0	1305.9	1364.5	1499.0	1656.1	1801.1	1849.1	1926.3	1939.7	1903.7	1775.8
47.5°	1274.1	1278.0	1340.6	1492.3	1704.0	1889.1	1922.3	1998.2	2015.5	1964.9	1826.5
50°	1232.8	1238.0	1310.0	1480.4	1735.9	1949.0	1984.9	2063.5	2072.8	2019.5	1879.7
52.5°	1183.5	1191.4	1267.4	1455.0	1757.2	1987.5	2034.1	2115.4	2124.7	2090.1	1936.9
55°	1123.6	1131.6	1212.7	1417.8	1750.6	1999.5	2055.4	2181.9	2197.9	2169.9	1986.3
57.5°	1065.0	1070.3	1154.2	1363.2	1713.4	2018.2	2119.4	2289.7	2311.1	2252.5	2026.2
60°	994.5	1006.4	1087.7	1288.7	1656.1	2036.8	2201.9	2418.9	2438.8	2332.4	2056.8
62.5°	921.2	931.9	1003.8	1195.5	1566.9	2019.5	2264.5	2530.7	2542.7	2396.2	2067.4
65°	836.0	837.4	903.9	1077.0	1439.1	1949.0	2269.8	2585.3	2597.2	2436.2	2048.8
67.5°	722.9	722.9	778.7	926.6	1267.4	1821.2	2221.8	2602.5	2619.9	2462.9	2003.5
70°	565.8	575.1	617.8	749.5	1049.0	1640.1	2160.6	2615.9	2631.9	2424.2	1901.0
72.5°	395.3	392.7	436.7	516.5	758.8	1308.6	1927.6	2420.2	2420.2	2227.2	1713.4
75°	121.2	135.8	155.8	208.9	346.1	877.3	1578.9	2051.4	2078.1	1929.0	1412.5
77.5°	39.9	39.9	46.6	57.3	74.6	186.4	789.4	1256.7	1278.0	1255.4	874.7
80°	32.0	32.0	35.9	41.3	48.0	95.8	278.2	471.3	505.9	557.8	362.1
82.5°	22.7	22.7	23.9	25.3	23.9	38.7	73.2	125.2	127.8	138.4	117.1
85°	14.6	13.3	13.3	12.0	10.7	10.7	9.3	9.3	10.7	10.7	13.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	4.0	4.0	4.0	4.0
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°	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2	680.2
2.5°	681.6	682.9	686.9	689.6	692.2	695.0	696.2	697.6	697.6	698.9	698.9
5°	690.9	693.6	700.3	706.9	717.5	728.2	737.5	742.8	744.2	749.5	749.5
7.5°	702.9	706.9	722.9	734.9	750.9	762.8	773.4	778.7	784.1	786.8	786.8
10°	721.5	726.8	742.8	756.2	769.4	778.7	785.4	789.4	790.8	792.1	792.1
12.5°	740.2	746.9	756.2	766.8	774.8	780.1	784.1	785.4	785.4	785.4	785.4
15°	760.1	762.8	765.5	768.1	772.2	773.4	773.4	772.2	769.4	768.1	768.1
17.5°	780.1	777.5	773.4	768.1	762.8	758.8	753.5	748.1	744.2	741.6	742.8
20°	804.0	796.1	778.7	765.5	750.9	736.2	724.2	713.6	705.5	704.3	705.5
22.5°	832.0	816.0	788.0	760.1	734.9	708.2	682.9	668.3	660.3	653.7	653.7
25°	865.4	840.1	796.1	752.1	712.2	669.6	635.0	612.3	599.1	591.1	593.7
27.5°	903.9	871.9	804.0	740.2	679.0	623.0	577.7	541.8	527.2	516.5	517.9
30°	959.8	909.2	813.4	722.9	636.3	565.8	505.9	463.2	438.0	430.0	432.6
32.5°	1085.0	989.2	824.1	697.6	588.4	497.9	418.0	366.1	339.4	339.4	338.2
35°	1294.0	1155.5	849.4	667.0	535.1	422.0	319.5	271.5	270.3	275.6	276.9
37.5°	1440.4	1308.6	927.8	637.7	476.6	330.1	236.9	223.7	236.9	242.3	240.9
40°	1534.9	1400.5	1018.4	607.1	394.1	236.9	187.7	178.3	191.7	202.4	210.3
42.5°	1612.1	1464.4	1059.7	567.1	294.2	170.4	138.4	135.8	155.8	170.4	175.7
45°	1673.4	1522.9	1065.0	511.2	199.7	126.5	113.1	125.2	149.1	161.1	162.5
47.5°	1722.7	1570.9	1050.4	422.0	133.1	110.5	110.5	126.5	149.1	161.1	161.1
50°	1770.5	1610.8	1013.1	343.5	119.8	107.8	111.8	127.8	147.7	157.1	157.1
52.5°	1810.5	1637.4	947.9	274.2	115.9	105.2	111.8	127.8	145.1	149.1	146.5
55°	1846.5	1648.1	889.3	221.0	111.8	103.8	114.5	130.5	143.8	143.8	138.4
57.5°	1866.4	1622.8	845.3	182.4	107.8	103.8	115.9	133.1	147.7	150.4	146.5
60°	1866.4	1586.8	797.4	161.1	105.2	103.8	115.9	142.4	175.7	162.5	161.1
62.5°	1841.1	1548.2	725.6	143.8	101.1	105.2	117.1	158.4	214.4	161.1	154.4
65°	1797.2	1473.7	631.0	127.8	97.2	106.5	115.9	182.4	255.5	155.8	137.2
67.5°	1714.6	1355.2	513.9	111.8	91.8	103.8	113.1	167.8	157.1	129.1	115.9
70°	1572.2	1178.1	356.8	97.2	87.9	101.1	113.1	147.7	139.8	118.5	103.8
72.5°	1360.6	966.5	191.7	79.9	77.2	95.8	110.5	135.8	119.8	97.2	87.9
75°	1045.0	686.9	117.1	62.6	63.9	85.1	102.5	129.1	114.5	93.2	81.2
77.5°	603.0	318.1	83.9	46.6	45.2	67.9	91.8	119.8	111.8	90.6	78.6
80°	221.0	131.7	57.3	34.6	30.6	49.2	71.9	97.2	106.5	89.2	79.9
82.5°	94.5	70.5	37.3	23.9	22.7	28.0	44.0	67.9	89.2	71.9	66.6
85°	13.3	13.3	13.3	12.0	13.3	17.3	18.6	33.3	49.2	26.6	26.6
87.5°	5.3	5.3	5.3	5.3	6.7	6.7	5.3	5.3	4.0	4.0	4.0
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)