

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: P507490

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

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507490
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-CA1-30-730-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 590mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4384.9 lumens
Efficiency: N/A
Efficacy: 129.0 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

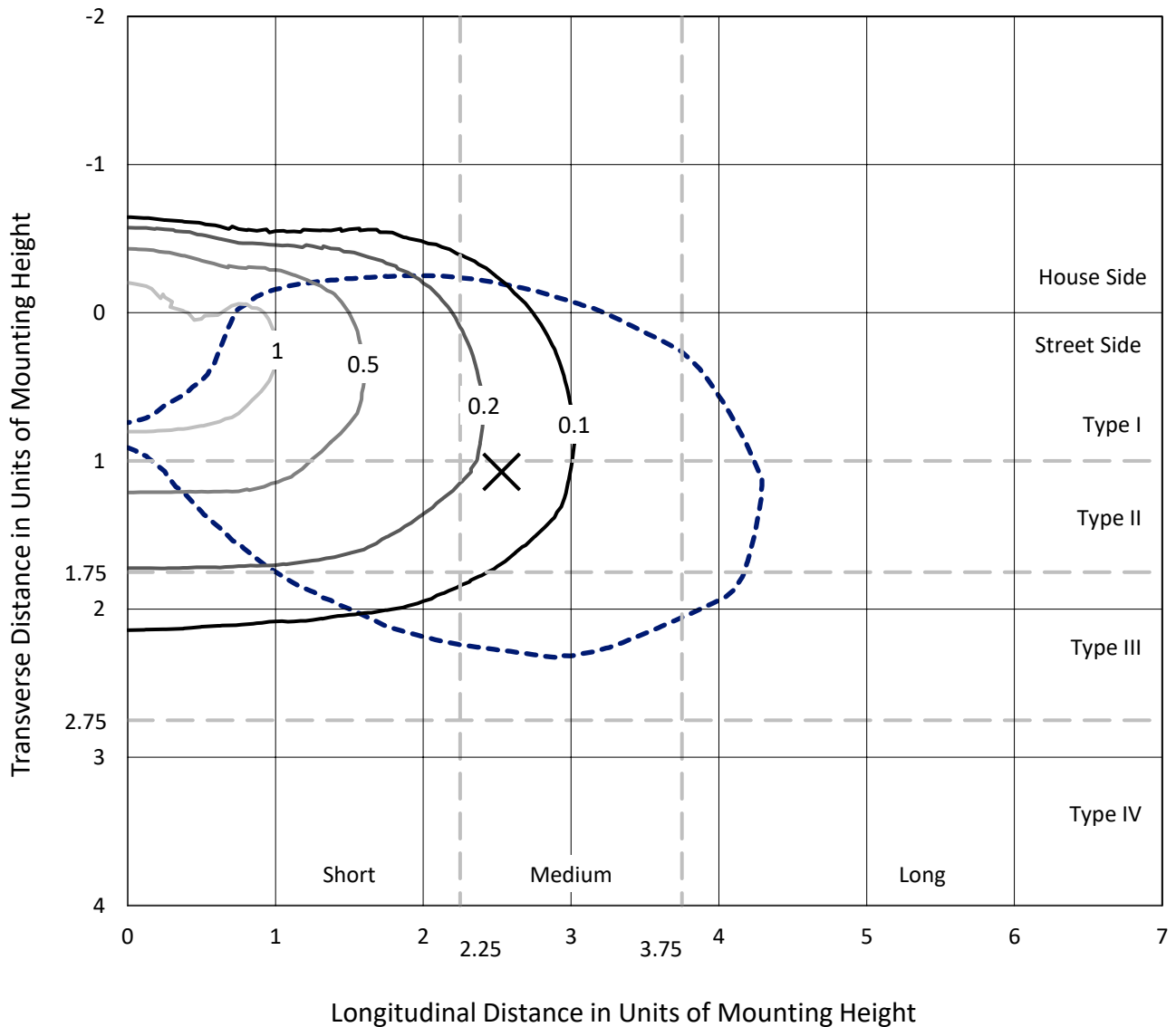




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Iso-Footcandle Lines of Horizontal Illumination

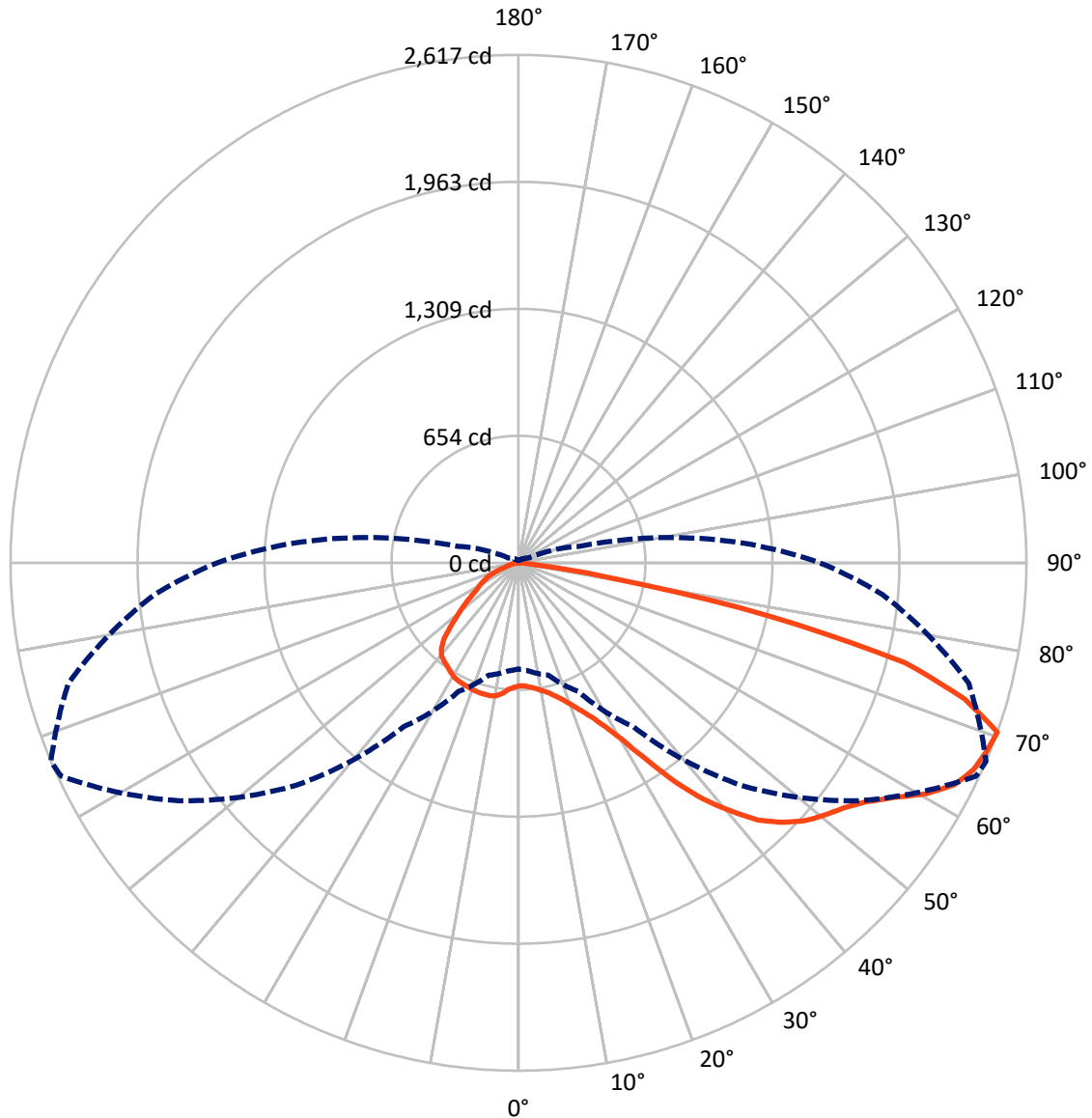
× Max cd
 - - - 1/2 Max cd



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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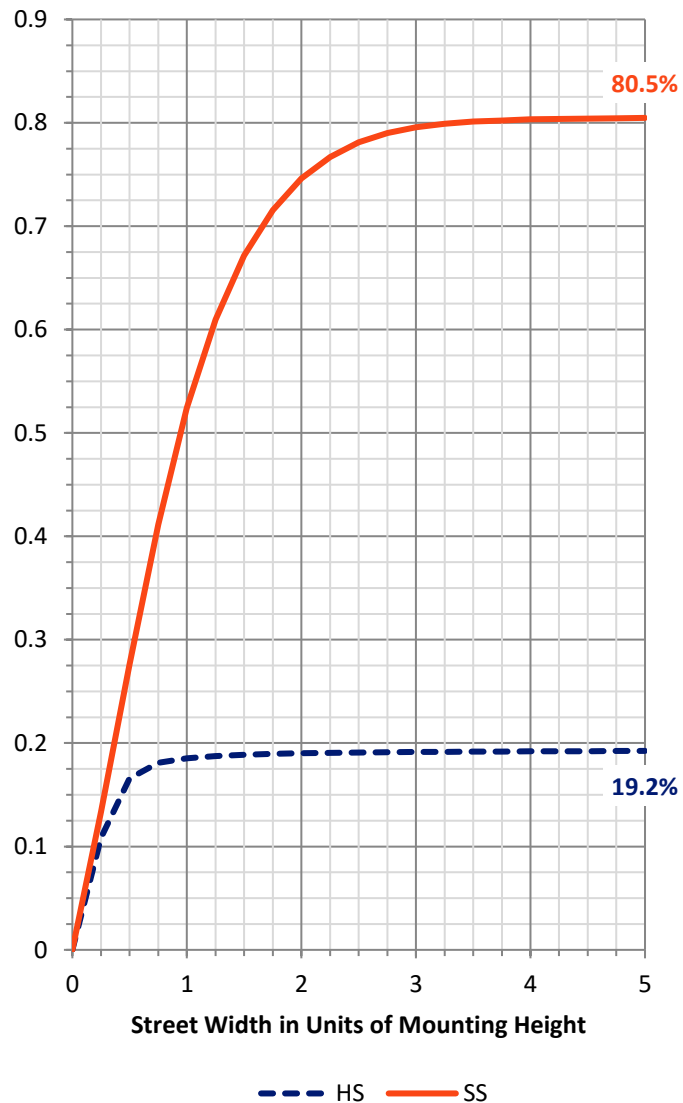
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	854.5	0.0	854.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3530.4	0.0	3530.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	4384.9	0.0	4384.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.5
10°-20°	202.4	4.6
20°-30°	351.8	8.0
30°-40°	550.9	12.6
40°-50°	775.1	17.7
50°-60°	924.4	21.1
60°-70°	957.9	21.8
70°-80°	528.6	12.1
80°-90°	30.1	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°	4384.9	100.0
0°-180°	4384.9	100.0

Coefficient of Utilization

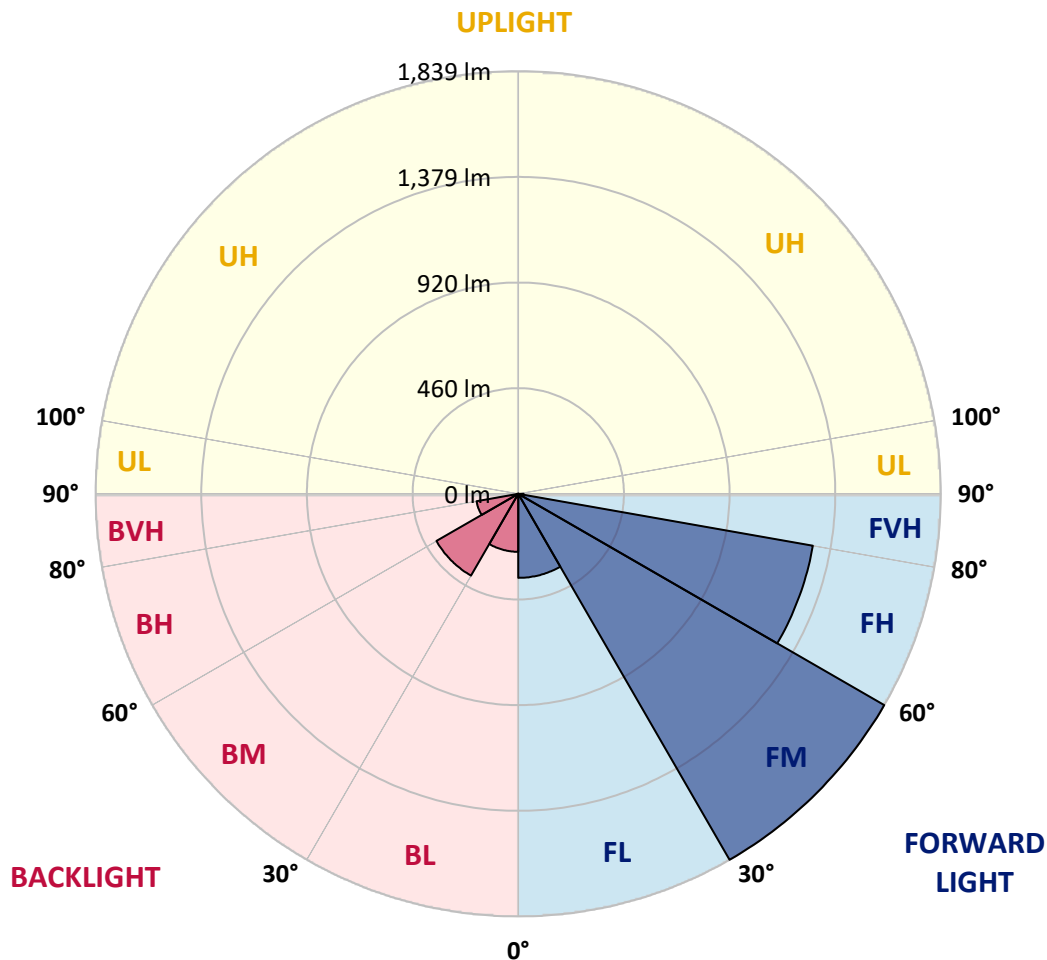


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.8	8.3			
FM (30°-60°)	1839.3	41.9			
FH (60°-80°)	1302.0	29.7			G1/1800
FVH (80°-90°)	23.4	0.5			G1/100
BL (0°-30°)	252.3	5.8	B1/500		
BM (30°-60°)	411.0	9.4	B1/1000		
BH (60°-80°)	184.5	4.2	B1/500		G1/500
BVH (80°-90°)	6.7	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°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
2.5°	639.0	639.0	639.0	637.7	637.7	637.7	636.4	635.0	635.0	635.0	636.4
5°	656.3	656.3	655.0	653.7	652.3	648.4	645.7	644.3	644.3	643.0	645.7
7.5°	677.6	677.6	677.6	674.9	670.9	665.6	660.3	656.3	655.0	653.7	655.0
10°	709.6	709.6	706.9	702.9	696.2	688.3	679.0	670.9	669.6	667.0	669.6
12.5°	750.9	746.9	744.2	737.5	729.5	716.2	701.5	689.6	686.9	684.3	693.6
15°	793.5	792.1	785.4	781.5	768.1	750.9	730.9	714.9	712.2	706.9	714.9
17.5°	844.1	845.3	842.7	836.0	817.4	792.1	768.1	745.5	742.8	738.8	742.8
20°	913.2	910.6	905.3	896.0	874.7	841.3	810.7	785.4	781.5	778.8	774.8
22.5°	982.5	983.8	973.2	963.9	937.2	905.3	864.0	833.4	828.1	826.7	808.1
25°	1049.0	1051.6	1047.7	1035.8	1013.1	971.8	926.6	889.3	882.6	881.2	849.4
27.5°	1118.3	1119.6	1123.6	1118.3	1094.3	1051.6	1001.1	958.6	958.6	947.9	899.9
30°	1184.8	1187.5	1190.2	1190.2	1178.2	1140.9	1097.0	1059.7	1059.7	1051.6	969.2
32.5°	1236.8	1238.0	1254.0	1267.4	1267.4	1240.7	1211.5	1207.4	1206.2	1220.8	1127.6
35°	1283.4	1287.3	1310.0	1345.9	1360.6	1349.9	1351.3	1365.9	1380.5	1416.5	1345.9
37.5°	1317.9	1323.3	1344.6	1385.9	1427.1	1455.0	1481.7	1521.7	1544.2	1598.9	1501.6
40°	1327.2	1333.9	1379.2	1437.8	1504.3	1568.3	1616.1	1665.4	1680.1	1718.7	1596.2
42.5°	1298.0	1304.7	1361.9	1480.4	1573.6	1673.4	1725.3	1787.9	1813.2	1798.5	1674.7
45°	1278.0	1282.0	1341.9	1476.3	1633.5	1776.0	1826.5	1891.7	1907.7	1873.1	1739.9
47.5°	1252.8	1256.7	1319.3	1471.0	1682.8	1863.7	1898.4	1970.3	1986.3	1933.0	1795.9
50°	1215.5	1218.1	1290.1	1460.5	1714.6	1926.3	1965.0	2036.8	2043.5	1988.9	1849.1
52.5°	1170.2	1178.2	1247.4	1435.1	1737.3	1965.0	2011.6	2088.8	2098.1	2060.8	1907.7
55°	1108.9	1118.3	1198.1	1397.9	1729.4	1978.2	2032.9	2158.0	2173.9	2143.3	1956.9
57.5°	1046.4	1059.7	1138.3	1345.9	1697.4	1998.2	2103.4	2260.5	2281.8	2224.6	1996.9
60°	982.5	987.8	1069.0	1275.3	1644.1	2018.2	2183.3	2395.0	2414.9	2304.4	2028.9
62.5°	909.2	915.9	987.8	1178.2	1552.3	1999.5	2243.2	2508.1	2520.0	2371.0	2042.2
65°	824.1	824.1	885.3	1059.7	1428.5	1933.0	2251.1	2566.6	2574.7	2413.6	2026.2
67.5°	705.5	710.8	760.2	913.2	1262.1	1802.5	2205.9	2580.0	2600.0	2440.2	1982.3
70°	547.1	559.1	600.4	732.2	1030.4	1621.4	2138.0	2601.3	2617.3	2401.6	1883.8
72.5°	374.1	386.0	423.3	501.9	742.8	1300.6	1934.3	2400.3	2404.3	2213.9	1692.1
75°	98.5	109.2	138.4	201.0	311.5	874.7	1547.0	2032.9	2056.8	1914.4	1396.5
77.5°	29.3	29.3	35.9	46.6	63.9	178.3	786.8	1295.3	1319.3	1262.1	870.7
80°	22.7	22.7	26.6	32.0	41.3	91.8	272.9	478.0	507.2	541.8	359.4
82.5°	14.6	16.0	17.3	18.6	18.6	37.3	73.2	122.4	121.2	131.7	115.9
85°	9.3	9.3	7.9	7.9	6.7	9.3	6.7	7.9	9.3	9.3	10.7
87.5°	1.4	0.0	0.0	0.0	0.0	1.4	1.4	2.6	2.6	2.6	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°	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0	635.0
2.5°	637.7	639.0	640.3	641.7	644.3	644.3	645.7	645.7	645.7	645.7	645.7
5°	645.7	647.0	651.0	655.0	664.4	669.6	674.9	679.0	679.0	681.6	681.6
7.5°	657.7	661.6	673.7	679.0	686.9	695.0	698.9	700.3	702.9	702.9	702.9
10°	677.6	681.6	690.9	695.0	698.9	698.9	697.6	696.2	692.3	690.9	692.3
12.5°	696.2	701.5	701.5	700.3	696.2	690.9	684.3	677.6	670.9	665.6	665.6
15°	718.9	716.2	708.2	697.6	686.9	673.7	660.3	648.4	637.7	633.6	633.6
17.5°	738.8	732.2	714.9	695.0	672.3	651.0	629.7	609.7	591.1	584.4	580.5
20°	762.8	750.9	720.2	689.6	657.7	624.3	588.4	552.5	520.5	507.2	505.9
22.5°	790.8	770.8	728.2	681.6	639.0	588.4	528.5	478.0	446.0	430.0	427.3
25°	824.1	794.7	736.2	674.9	616.4	541.8	462.0	404.7	364.7	347.5	340.8
27.5°	865.4	826.7	746.9	667.0	581.7	484.6	394.1	327.5	283.5	262.2	259.6
30°	918.5	865.4	757.4	655.0	539.2	418.0	320.8	246.2	202.4	181.1	175.7
32.5°	1041.1	943.8	770.8	635.0	485.9	354.2	242.3	165.1	121.2	101.1	99.9
35°	1248.7	1120.9	801.4	608.4	432.6	278.2	155.8	87.9	65.2	57.3	57.3
37.5°	1404.5	1268.7	884.0	573.8	363.5	186.4	79.9	51.9	41.3	39.9	39.9
40°	1497.6	1356.6	974.4	535.1	280.9	99.9	49.2	39.9	37.3	35.9	35.9
42.5°	1574.9	1429.7	1017.1	487.3	178.3	55.9	41.3	37.3	34.6	33.3	33.3
45°	1638.8	1485.7	1022.4	426.0	99.9	46.6	38.7	33.3	32.0	30.6	30.6
47.5°	1689.4	1533.6	1009.1	339.4	62.6	44.0	35.9	30.6	28.0	28.0	28.0
50°	1737.3	1574.9	971.8	267.6	58.6	41.3	33.3	28.0	26.6	26.6	26.6
52.5°	1781.2	1604.2	909.2	215.6	54.5	38.7	32.0	26.6	23.9	25.3	25.3
55°	1817.1	1616.1	845.3	166.4	51.9	37.3	30.6	25.3	22.7	22.7	22.7
57.5°	1837.2	1590.8	792.1	126.5	50.6	35.9	29.3	23.9	20.0	18.6	18.6
60°	1838.4	1557.6	742.8	106.5	48.0	33.3	28.0	21.3	17.3	16.0	16.0
62.5°	1814.5	1517.6	668.3	91.8	45.2	32.0	25.3	20.0	16.0	14.6	14.6
65°	1767.9	1447.1	585.8	78.6	44.0	32.0	22.7	18.6	16.0	13.3	13.3
67.5°	1693.3	1330.0	475.3	69.3	41.3	29.3	22.7	17.3	14.6	13.3	13.3
70°	1552.3	1162.2	328.8	59.9	38.7	26.6	21.3	17.3	14.6	12.0	12.0
72.5°	1337.9	943.8	162.5	49.2	33.3	26.6	21.3	16.0	13.3	12.0	12.0
75°	1034.4	676.3	98.5	39.9	26.6	23.9	20.0	16.0	13.3	10.7	10.7
77.5°	608.4	300.9	70.5	30.6	20.0	18.6	17.3	14.6	12.0	10.7	10.7
80°	222.3	127.8	51.9	23.9	16.0	16.0	13.3	12.0	10.7	9.3	9.3
82.5°	86.5	67.9	34.6	17.3	13.3	12.0	10.7	9.3	7.9	7.9	7.9
85°	12.0	12.0	12.0	9.3	7.9	7.9	6.7	6.7	5.3	5.3	5.3
87.5°	4.0	4.0	4.0	5.3	4.0	4.0	2.6	2.6	2.6	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)