

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: P507493

Luminaire Tested: **VERD-S-CA1-30-730-U-T4**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507493  
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-CA1-30-730-U-T4  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 590mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4670.3 lumens  
Efficiency: N/A  
Efficacy: 137.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

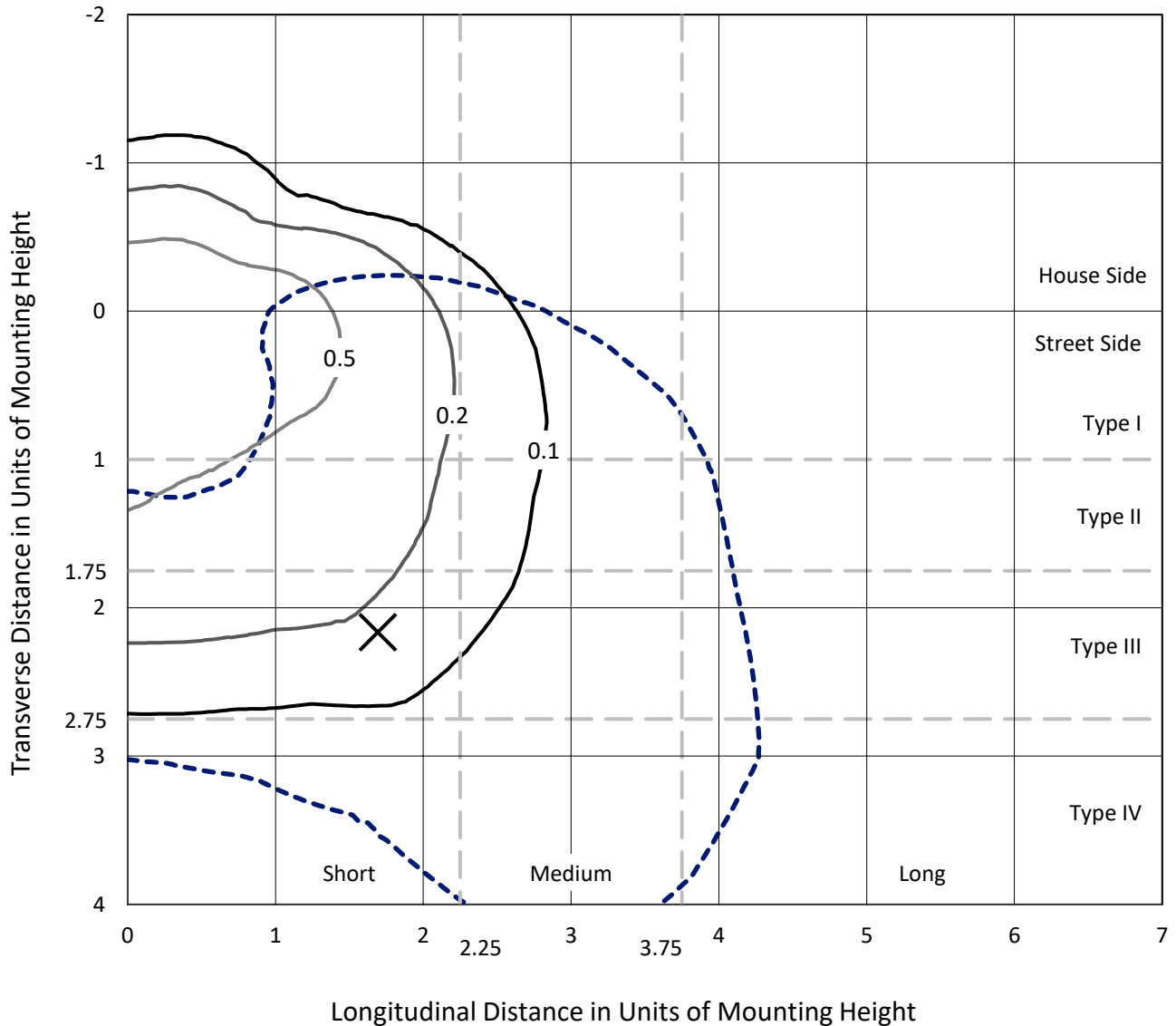
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

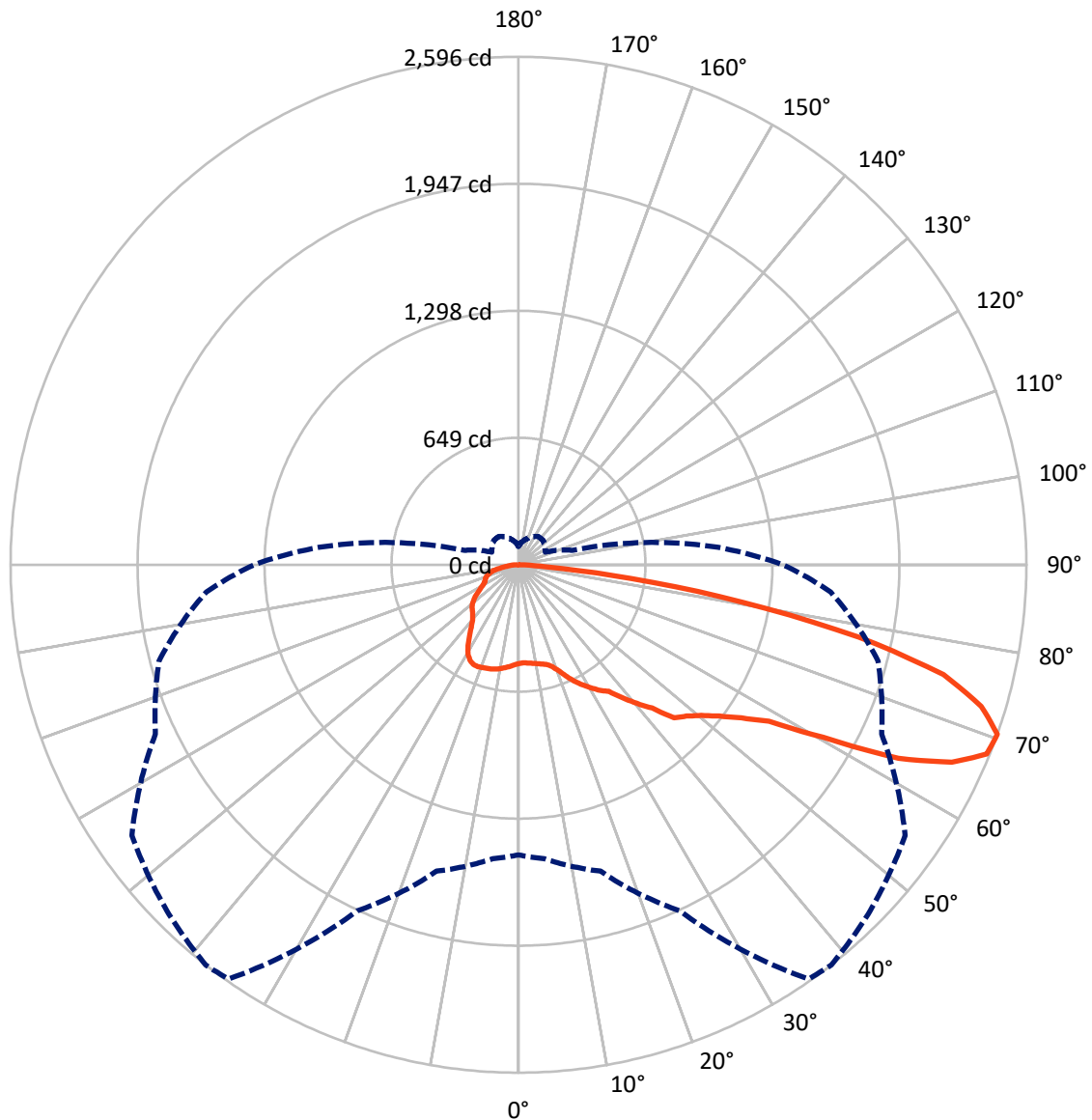
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 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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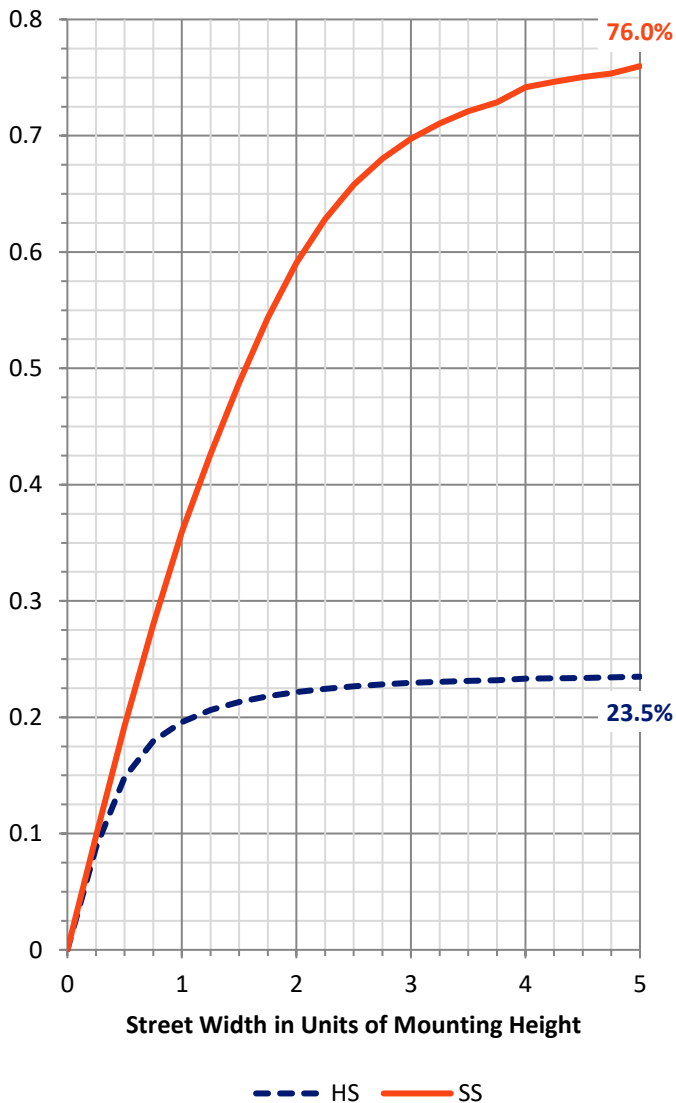
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1109.2	0.0	1109.2
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	3561.0	0.0	3561.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	4670.3	0.0	4670.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.2	1.1
10°-20°	155.1	3.3
20°-30°	287.7	6.2
30°-40°	445.4	9.5
40°-50°	660.0	14.1
50°-60°	919.6	19.7
60°-70°	1181.0	25.3
70°-80°	864.0	18.5
80°-90°	108.2	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°	4670.3	100.0
0°-180°	4670.3	100.0

**Coefficient of Utilization**



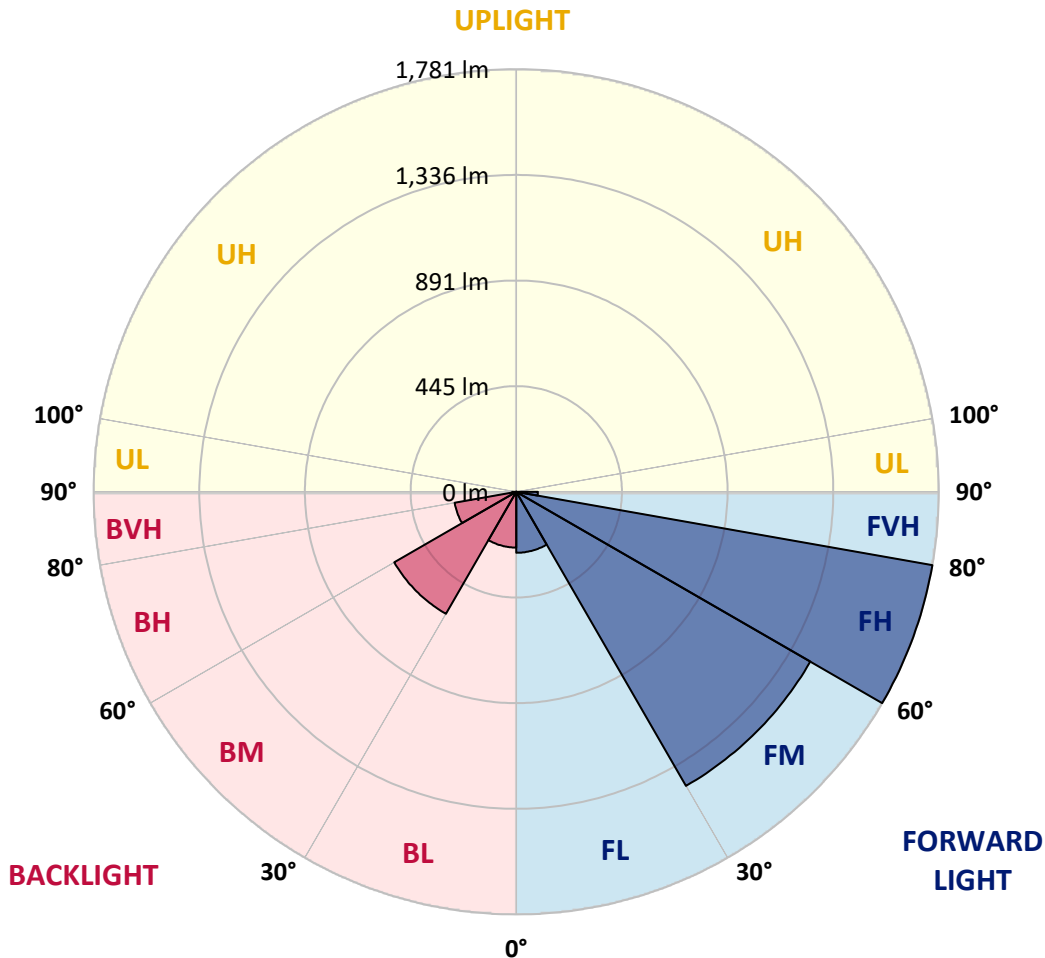
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.0	5.5			
FM (30°-60°)	1431.3	30.6			
FH (60°-80°)	1781.3	38.1			G1/1800
FVH (80°-90°)	91.5	2.0			G1/100
BL (0°-30°)	235.0	5.0	B1/500		
BM (30°-60°)	593.7	12.7	B1/1000		
BH (60°-80°)	263.8	5.6	B1/500		G1/500
BVH (80°-90°)	16.8	0.4			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
2.5°	503.3	503.3	503.3	502.0	502.0	502.0	500.6	500.6	502.0	503.3	503.3
5°	507.3	507.3	505.9	505.9	504.7	504.7	504.7	503.3	503.3	503.3	505.9
7.5°	508.7	508.7	508.7	508.7	508.7	508.7	509.9	508.7	508.7	508.7	511.3
10°	508.7	508.7	509.9	509.9	512.6	514.0	515.2	518.0	518.0	518.0	519.3
12.5°	511.3	511.3	512.6	514.0	518.0	520.6	523.3	527.3	528.6	528.6	530.0
15°	516.6	516.6	518.0	521.9	527.3	528.6	532.6	537.9	543.3	544.6	546.0
17.5°	537.9	537.9	537.9	537.9	543.3	544.6	549.9	557.9	563.2	565.9	569.9
20°	580.6	581.9	579.2	577.8	575.2	575.2	575.2	579.2	585.9	595.2	601.9
22.5°	635.1	635.1	635.1	624.4	617.9	616.5	616.5	615.1	620.5	629.8	639.2
25°	677.7	679.1	677.7	668.4	660.4	657.8	657.8	661.7	661.7	669.8	680.3
27.5°	712.3	715.0	711.1	703.0	696.3	695.1	696.3	708.3	715.0	720.4	733.6
30°	749.6	751.0	741.7	736.3	732.4	729.7	731.0	748.4	770.9	777.6	800.2
32.5°	818.9	818.9	805.5	774.9	764.3	765.6	765.6	788.3	818.9	849.5	878.8
35°	884.1	882.7	870.8	844.2	804.3	794.9	800.2	824.2	872.2	924.0	976.1
37.5°	961.3	958.7	948.0	910.7	877.4	862.8	833.5	865.5	924.0	1026.6	1079.8
40°	1047.9	1043.9	1019.9	982.6	938.7	932.1	906.8	912.1	989.3	1134.5	1195.7
42.5°	1095.8	1093.2	1077.2	1046.6	1014.6	1001.3	980.0	973.3	1077.2	1274.3	1304.9
45°	1141.1	1146.5	1146.5	1131.7	1118.5	1115.9	1101.1	1106.5	1190.4	1388.8	1400.7
47.5°	1169.0	1174.4	1157.0	1154.4	1154.4	1155.8	1170.4	1206.4	1292.9	1496.6	1484.6
50°	1253.0	1249.0	1179.7	1190.4	1202.4	1210.3	1242.3	1299.6	1435.4	1593.8	1557.9
52.5°	1404.8	1368.8	1286.3	1262.3	1268.9	1284.9	1327.6	1402.1	1580.5	1680.3	1621.8
55°	1592.4	1571.1	1496.6	1390.0	1355.5	1382.1	1427.4	1503.3	1692.3	1761.6	1672.4
57.5°	1719.0	1726.9	1736.3	1663.1	1502.0	1508.6	1539.3	1603.1	1804.1	1840.2	1712.3
60°	1846.8	1856.1	1908.0	1889.4	1852.1	1790.9	1679.1	1709.7	1888.1	1892.0	1741.7
62.5°	1948.0	1954.6	2031.8	2074.5	2171.6	2179.7	2005.3	1844.2	1975.9	1933.4	1753.6
65°	1897.5	1909.4	2025.2	2143.7	2411.3	2434.0	2376.8	2017.2	2043.9	1949.3	1744.3
67.5°	1726.9	1744.3	1866.7	2118.5	2564.5	2581.8	2525.9	2343.4	2067.9	1942.7	1699.0
70°	1483.4	1508.6	1621.8	1952.0	2585.7	2596.4	2527.2	2412.7	2047.8	1902.7	1601.8
72.5°	1206.4	1226.3	1340.8	1673.7	2456.6	2473.9	2452.6	2355.4	2005.3	1825.5	1406.0
75°	924.0	925.4	1046.6	1311.6	2174.4	2243.6	2279.6	2244.9	1889.4	1605.8	1082.5
77.5°	583.2	600.5	724.3	993.3	1708.3	1778.9	1794.8	1752.2	1322.2	985.4	466.0
80°	262.3	288.9	415.5	671.0	1162.5	1159.7	1169.0	1063.8	704.4	312.8	51.9
82.5°	94.6	99.9	174.4	336.9	563.2	577.8	571.3	491.3	190.4	44.0	32.0
85°	39.9	42.6	57.3	90.6	127.8	135.8	117.1	89.2	30.6	25.3	21.3
87.5°	2.6	2.6	2.6	2.6	2.6	4.0	4.0	4.0	4.0	5.3	6.7
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°	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7	504.7
2.5°	503.3	504.7	505.9	508.7	508.7	509.9	511.3	512.6	512.6	512.6	512.6
5°	507.3	508.7	509.9	514.0	516.6	518.0	520.6	521.9	523.3	523.3	523.3
7.5°	512.6	514.0	516.6	520.6	524.6	527.3	530.0	531.2	532.6	532.6	532.6
10°	520.6	523.3	527.3	532.6	536.6	536.6	537.9	539.3	540.6	540.6	540.6
12.5°	531.2	533.9	540.6	547.2	548.6	547.2	544.6	544.6	543.3	541.9	541.9
15°	548.6	549.9	559.2	564.6	560.6	553.9	548.6	543.3	539.3	536.6	536.6
17.5°	572.5	576.6	585.9	585.9	575.2	563.2	549.9	536.6	525.9	521.9	520.6
20°	607.2	612.5	620.5	612.5	595.2	573.9	549.9	528.6	507.3	494.0	490.0
22.5°	645.8	652.4	655.2	637.8	612.5	583.2	551.3	518.0	483.4	454.0	446.1
25°	691.1	695.1	685.8	657.8	623.2	585.9	547.2	503.3	450.0	411.5	407.4
27.5°	744.3	740.3	715.0	672.4	625.8	580.6	532.6	474.0	407.4	378.2	374.2
30°	801.6	786.9	740.3	680.3	617.9	564.6	507.3	430.1	375.4	351.5	348.9
32.5°	869.5	840.2	764.3	681.7	603.1	536.6	466.0	394.1	354.2	327.6	324.9
35°	945.3	900.1	785.6	673.8	573.9	498.0	416.7	367.5	331.6	306.3	300.9
37.5°	1047.9	981.3	812.2	656.4	536.6	448.7	380.8	339.5	308.9	281.0	276.9
40°	1153.1	1074.5	849.5	636.5	495.3	408.8	350.2	319.5	292.9	261.0	254.3
42.5°	1258.3	1167.7	900.1	612.5	454.0	378.2	336.9	316.9	284.9	251.6	245.0
45°	1344.8	1247.6	948.0	584.5	412.7	350.2	328.8	311.6	279.6	243.7	235.6
47.5°	1419.4	1314.2	989.3	559.2	372.8	328.8	322.3	302.3	271.7	235.6	227.7
50°	1482.0	1367.5	1022.7	537.9	339.5	314.2	308.9	284.9	253.0	222.4	217.0
52.5°	1536.5	1406.0	1037.3	531.2	306.3	297.0	287.7	263.6	234.4	206.4	198.4
55°	1572.5	1435.4	1034.6	531.2	274.3	272.9	262.3	243.7	222.4	199.7	191.7
57.5°	1600.5	1448.7	1014.6	454.0	247.6	242.3	235.6	227.7	214.4	189.0	181.1
60°	1613.8	1440.7	972.0	330.2	221.0	211.7	217.0	214.4	201.0	166.5	161.1
62.5°	1605.8	1416.7	876.2	241.1	193.1	191.7	199.7	194.5	169.1	138.5	135.8
65°	1575.2	1356.8	753.6	181.1	177.1	186.4	190.4	179.7	155.8	127.8	117.1
67.5°	1496.6	1240.9	548.6	162.5	171.8	182.4	185.1	170.4	146.5	119.9	106.5
70°	1351.5	1022.7	284.9	150.5	163.7	177.1	175.8	157.2	133.1	109.2	93.2
72.5°	1095.8	725.7	107.8	134.5	151.8	165.1	162.5	141.2	94.6	67.9	61.2
75°	711.1	347.5	93.2	115.9	135.8	147.9	149.1	127.8	82.5	57.3	49.2
77.5°	243.7	63.9	75.9	95.8	117.1	133.1	129.2	102.5	63.9	42.6	38.7
80°	41.3	42.6	58.6	67.9	81.2	106.5	90.6	73.2	50.6	30.6	25.3
82.5°	29.3	35.9	41.3	39.9	55.9	70.5	61.2	49.2	33.3	23.9	21.3
85°	21.3	23.9	22.7	23.9	32.0	46.6	42.6	34.6	23.9	17.3	14.6
87.5°	7.9	7.9	10.7	13.3	20.0	29.3	25.3	10.7	9.3	7.9	7.9
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)