

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: P507450

Luminaire Tested: **VERD-S-CA1-20-740-U-T3-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507450  
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-CA1-20-740-U-T3-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 430mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3294 lumens  
Efficiency: N/A  
Efficacy: 140.8 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

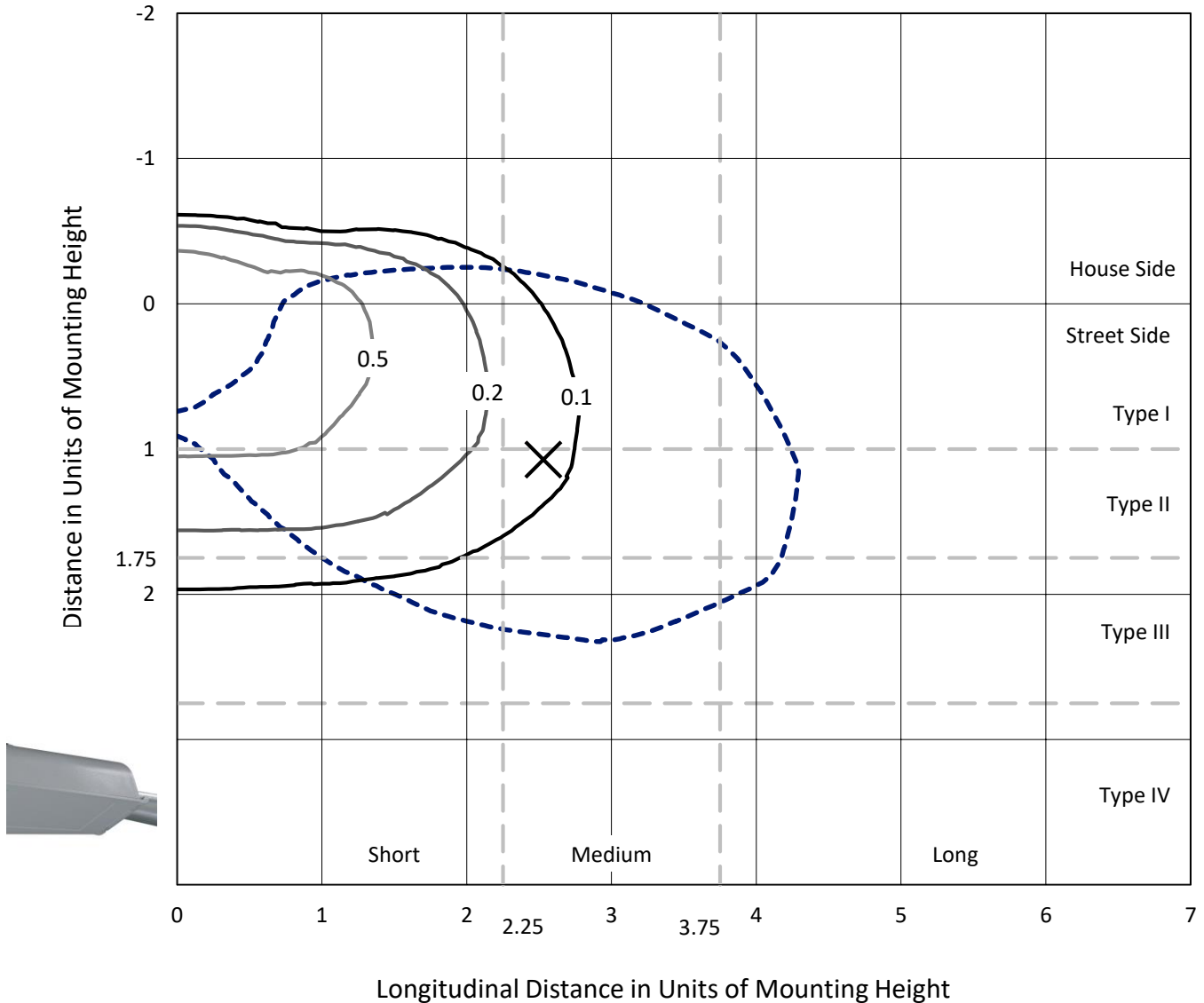
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

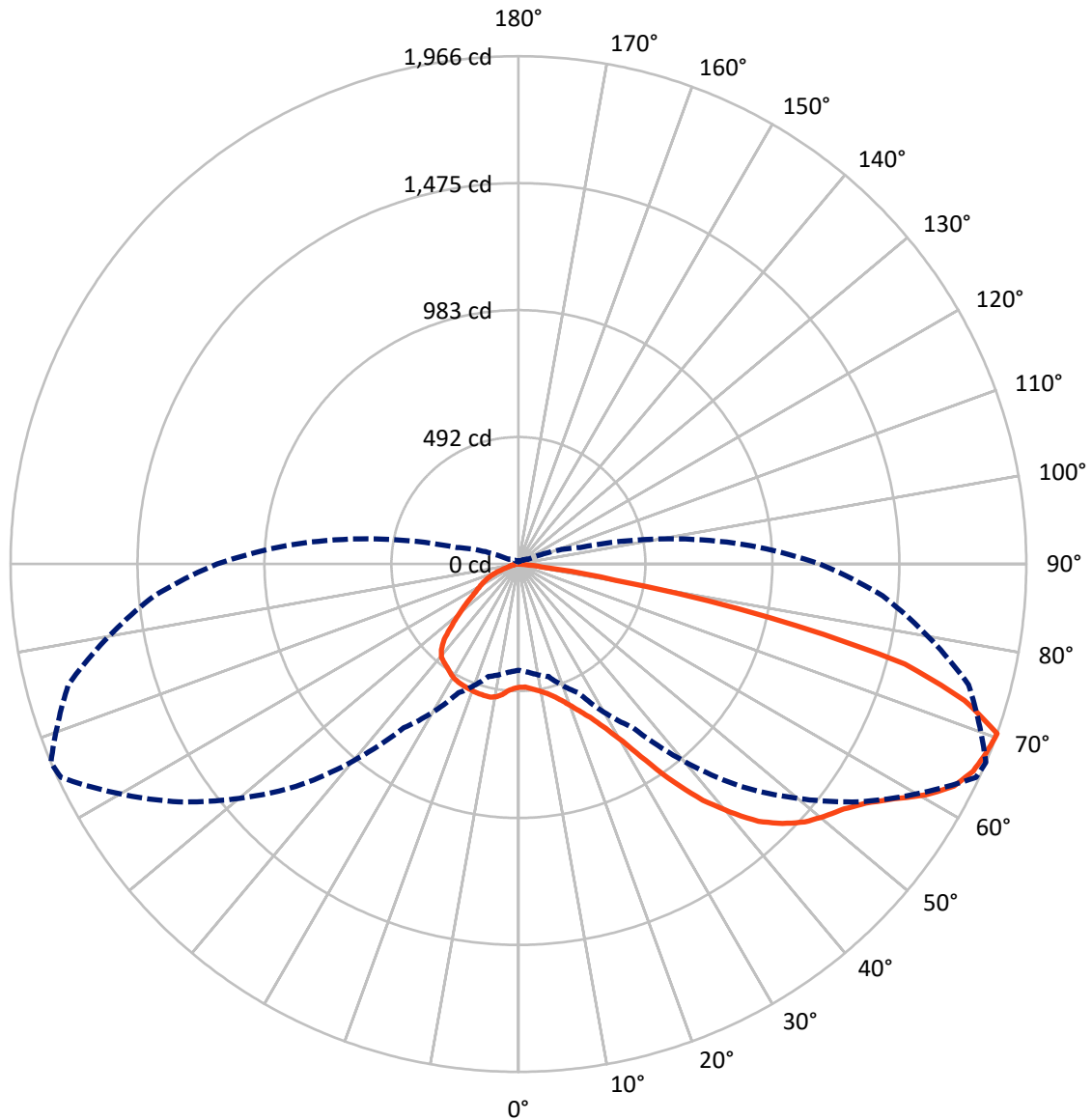
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 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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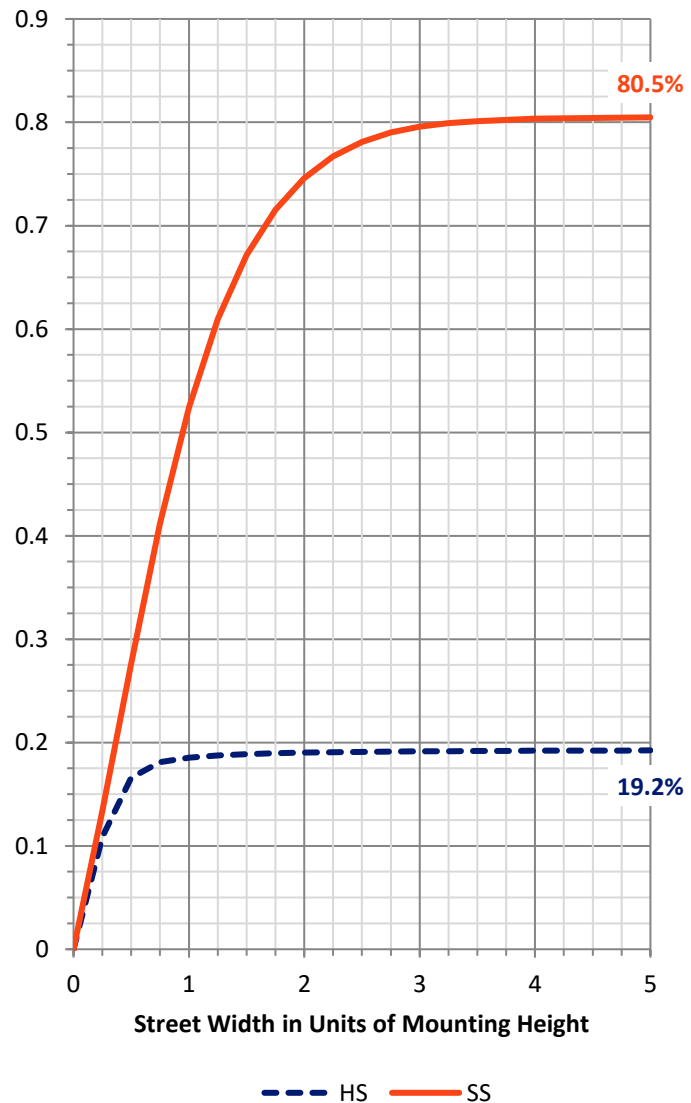
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	641.9	0.0	641.9
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	2652.1	0.0	2652.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	3294.0	0.0	3294.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.5
10°-20°	152.0	4.6
20°-30°	264.2	8.0
30°-40°	413.8	12.6
40°-50°	582.2	17.7
50°-60°	694.4	21.1
60°-70°	719.6	21.8
70°-80°	397.1	12.1
80°-90°	22.6	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°	3294.0	100.0
0°-180°	3294.0	100.0



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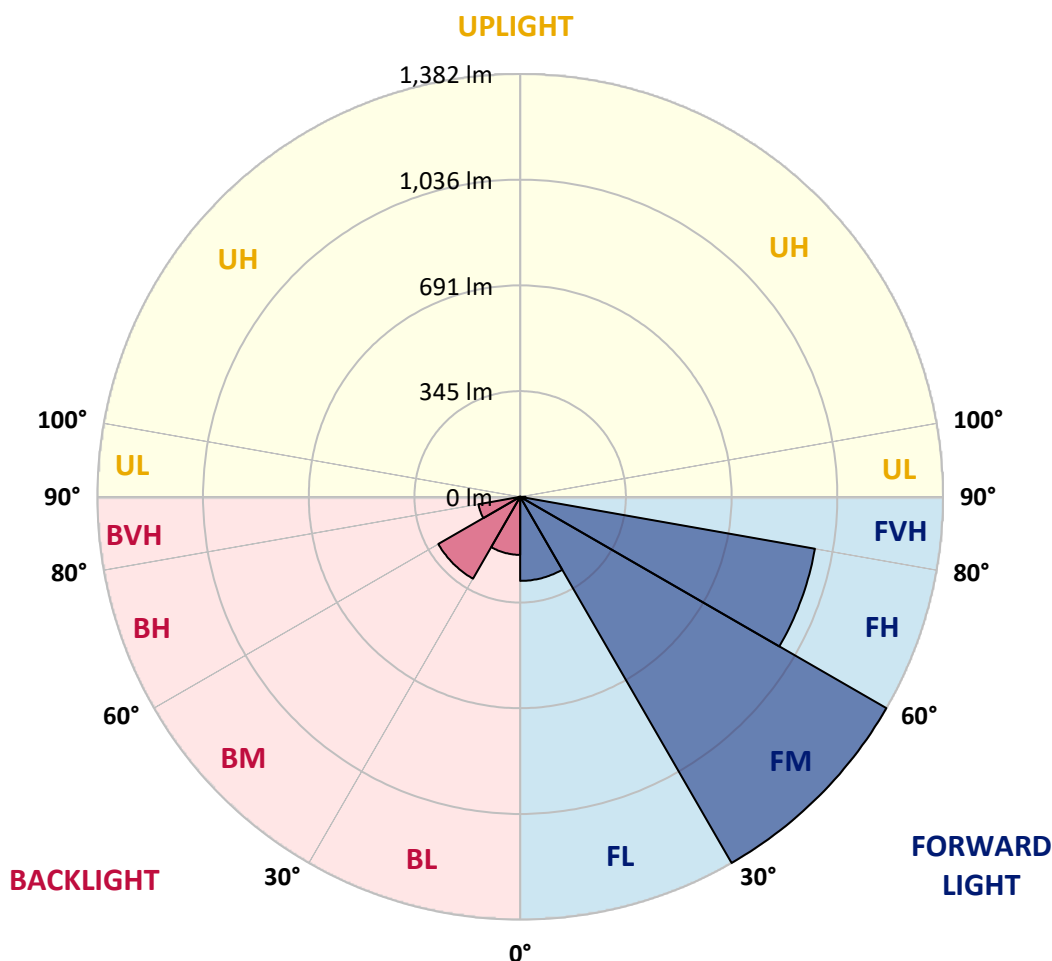
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.8	8.3			
FM (30°-60°)	1381.7	41.9			
FH (60°-80°)	978.1	29.7			G1/1800
FVH (80°-90°)	17.6	0.5			G1/100
BL (0°-30°)	189.5	5.8	B1/500		
BM (30°-60°)	308.8	9.4	B1/1000		
BH (60°-80°)	138.6	4.2	B1/500		G1/500
BVH (80°-90°)	5.0	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°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	480.0	480.0	480.0	479.0	479.0	479.0	478.0	477.0	477.0	477.0	478.0
5°	493.0	493.0	492.0	491.0	490.0	487.0	485.0	484.0	484.0	483.0	485.0
7.5°	509.0	509.0	509.0	507.0	504.0	500.0	496.0	493.0	492.0	491.0	492.0
10°	533.0	533.0	531.0	528.0	523.0	517.0	510.0	504.0	503.0	501.0	503.0
12.5°	564.0	561.0	559.0	554.0	548.0	538.0	527.0	518.0	516.0	514.0	521.0
15°	596.0	595.0	590.0	587.0	577.0	564.0	549.0	537.0	535.0	531.0	537.0
17.5°	634.0	635.0	633.0	628.0	614.0	595.0	577.0	560.0	558.0	555.0	558.0
20°	686.0	684.0	680.0	673.0	657.0	632.0	609.0	590.0	587.0	585.0	582.0
22.5°	738.0	739.0	731.0	724.0	704.0	680.0	649.0	626.0	622.0	621.0	607.0
25°	788.0	790.0	787.0	778.0	761.0	730.0	696.0	668.0	663.0	662.0	638.0
27.5°	840.0	841.0	844.0	840.0	822.0	790.0	752.0	720.0	720.0	712.0	676.0
30°	890.1	892.1	894.1	894.1	885.1	857.0	824.0	796.0	796.0	790.0	728.0
32.5°	929.1	930.1	942.1	952.1	952.1	932.1	910.1	907.1	906.1	917.1	847.0
35°	964.1	967.1	984.1	1011.1	1022.1	1014.1	1015.1	1026.1	1037.1	1064.1	1011.1
37.5°	990.1	994.1	1010.1	1041.1	1072.1	1093.1	1113.1	1143.1	1160.1	1201.1	1128.1
40°	997.1	1002.1	1036.1	1080.1	1130.1	1178.1	1214.1	1251.1	1262.1	1291.1	1199.1
42.5°	975.1	980.1	1023.1	1112.1	1182.1	1257.1	1296.1	1343.1	1362.1	1351.1	1258.1
45°	960.1	963.1	1008.1	1109.1	1227.1	1334.1	1372.1	1421.1	1433.1	1407.1	1307.1
47.5°	941.1	944.1	991.1	1105.1	1264.1	1400.1	1426.1	1480.1	1492.1	1452.1	1349.1
50°	913.1	915.1	969.1	1097.1	1288.1	1447.1	1476.1	1530.1	1535.1	1494.1	1389.1
52.5°	879.1	885.1	937.1	1078.1	1305.1	1476.1	1511.1	1569.1	1576.1	1548.1	1433.1
55°	833.0	840.0	900.1	1050.1	1299.1	1486.1	1527.1	1621.1	1633.1	1610.1	1470.1
57.5°	786.0	796.0	855.0	1011.1	1275.1	1501.1	1580.1	1698.1	1714.1	1671.1	1500.1
60°	738.0	742.0	803.0	958.1	1235.1	1516.1	1640.1	1799.1	1814.1	1731.1	1524.1
62.5°	683.0	688.0	742.0	885.1	1166.1	1502.1	1685.1	1884.1	1893.1	1781.1	1534.1
65°	619.0	619.0	665.0	796.0	1073.1	1452.1	1691.1	1928.1	1934.1	1813.1	1522.1
67.5°	530.0	534.0	571.0	686.0	948.1	1354.1	1657.1	1938.1	1953.1	1833.1	1489.1
70°	411.0	420.0	451.0	550.0	774.0	1218.1	1606.1	1954.1	1966.1	1804.1	1415.1
72.5°	281.0	290.0	318.0	377.0	558.0	977.1	1453.1	1803.1	1806.1	1663.1	1271.1
75°	74.0	82.0	104.0	151.0	234.0	657.0	1162.1	1527.1	1545.1	1438.1	1049.1
77.5°	22.0	22.0	27.0	35.0	48.0	134.0	591.0	973.1	991.1	948.1	654.0
80°	17.0	17.0	20.0	24.0	31.0	69.0	205.0	359.0	381.0	407.0	270.0
82.5°	11.0	12.0	13.0	14.0	14.0	28.0	55.0	92.0	91.0	99.0	87.0
85°	7.0	7.0	6.0	6.0	5.0	7.0	5.0	6.0	7.0	7.0	8.0
87.5°	1.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0	2.0	2.0	3.0
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°	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0	477.0
2.5°	479.0	480.0	481.0	482.0	484.0	484.0	485.0	485.0	485.0	485.0	485.0
5°	485.0	486.0	489.0	492.0	499.0	503.0	507.0	510.0	510.0	512.0	512.0
7.5°	494.0	497.0	506.0	510.0	516.0	522.0	525.0	526.0	528.0	528.0	528.0
10°	509.0	512.0	519.0	522.0	525.0	525.0	524.0	523.0	520.0	519.0	520.0
12.5°	523.0	527.0	527.0	526.0	523.0	519.0	514.0	509.0	504.0	500.0	500.0
15°	540.0	538.0	532.0	524.0	516.0	506.0	496.0	487.0	479.0	476.0	476.0
17.5°	555.0	550.0	537.0	522.0	505.0	489.0	473.0	458.0	444.0	439.0	436.0
20°	573.0	564.0	541.0	518.0	494.0	469.0	442.0	415.0	391.0	381.0	380.0
22.5°	594.0	579.0	547.0	512.0	480.0	442.0	397.0	359.0	335.0	323.0	321.0
25°	619.0	597.0	553.0	507.0	463.0	407.0	347.0	304.0	274.0	261.0	256.0
27.5°	650.0	621.0	561.0	501.0	437.0	364.0	296.0	246.0	213.0	197.0	195.0
30°	690.0	650.0	569.0	492.0	405.0	314.0	241.0	185.0	152.0	136.0	132.0
32.5°	782.0	709.0	579.0	477.0	365.0	266.0	182.0	124.0	91.0	76.0	75.0
35°	938.1	842.0	602.0	457.0	325.0	209.0	117.0	66.0	49.0	43.0	43.0
37.5°	1055.1	953.1	664.0	431.0	273.0	140.0	60.0	39.0	31.0	30.0	30.0
40°	1125.1	1019.1	732.0	402.0	211.0	75.0	37.0	30.0	28.0	27.0	27.0
42.5°	1183.1	1074.1	764.0	366.0	134.0	42.0	31.0	28.0	26.0	25.0	25.0
45°	1231.1	1116.1	768.0	320.0	75.0	35.0	29.0	25.0	24.0	23.0	23.0
47.5°	1269.1	1152.1	758.0	255.0	47.0	33.0	27.0	23.0	21.0	21.0	21.0
50°	1305.1	1183.1	730.0	201.0	44.0	31.0	25.0	21.0	20.0	20.0	20.0
52.5°	1338.1	1205.1	683.0	162.0	41.0	29.0	24.0	20.0	18.0	19.0	19.0
55°	1365.1	1214.1	635.0	125.0	39.0	28.0	23.0	19.0	17.0	17.0	17.0
57.5°	1380.1	1195.1	595.0	95.0	38.0	27.0	22.0	18.0	15.0	14.0	14.0
60°	1381.1	1170.1	558.0	80.0	36.0	25.0	21.0	16.0	13.0	12.0	12.0
62.5°	1363.1	1140.1	502.0	69.0	34.0	24.0	19.0	15.0	12.0	11.0	11.0
65°	1328.1	1087.1	440.0	59.0	33.0	24.0	17.0	14.0	12.0	10.0	10.0
67.5°	1272.1	999.1	357.0	52.0	31.0	22.0	17.0	13.0	11.0	10.0	10.0
70°	1166.1	873.1	247.0	45.0	29.0	20.0	16.0	13.0	11.0	9.0	9.0
72.5°	1005.1	709.0	122.0	37.0	25.0	20.0	16.0	12.0	10.0	9.0	9.0
75°	777.0	508.0	74.0	30.0	20.0	18.0	15.0	12.0	10.0	8.0	8.0
77.5°	457.0	226.0	53.0	23.0	15.0	14.0	13.0	11.0	9.0	8.0	8.0
80°	167.0	96.0	39.0	18.0	12.0	12.0	10.0	9.0	8.0	7.0	7.0
82.5°	65.0	51.0	26.0	13.0	10.0	9.0	8.0	7.0	6.0	6.0	6.0
85°	9.0	9.0	9.0	7.0	6.0	6.0	5.0	5.0	4.0	4.0	4.0
87.5°	3.0	3.0	3.0	4.0	3.0	3.0	2.0	2.0	2.0	3.0	3.0
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)