

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: P509384

Luminaire Tested: **VERD-CA2-80-760-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-80-760-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1100mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10496 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

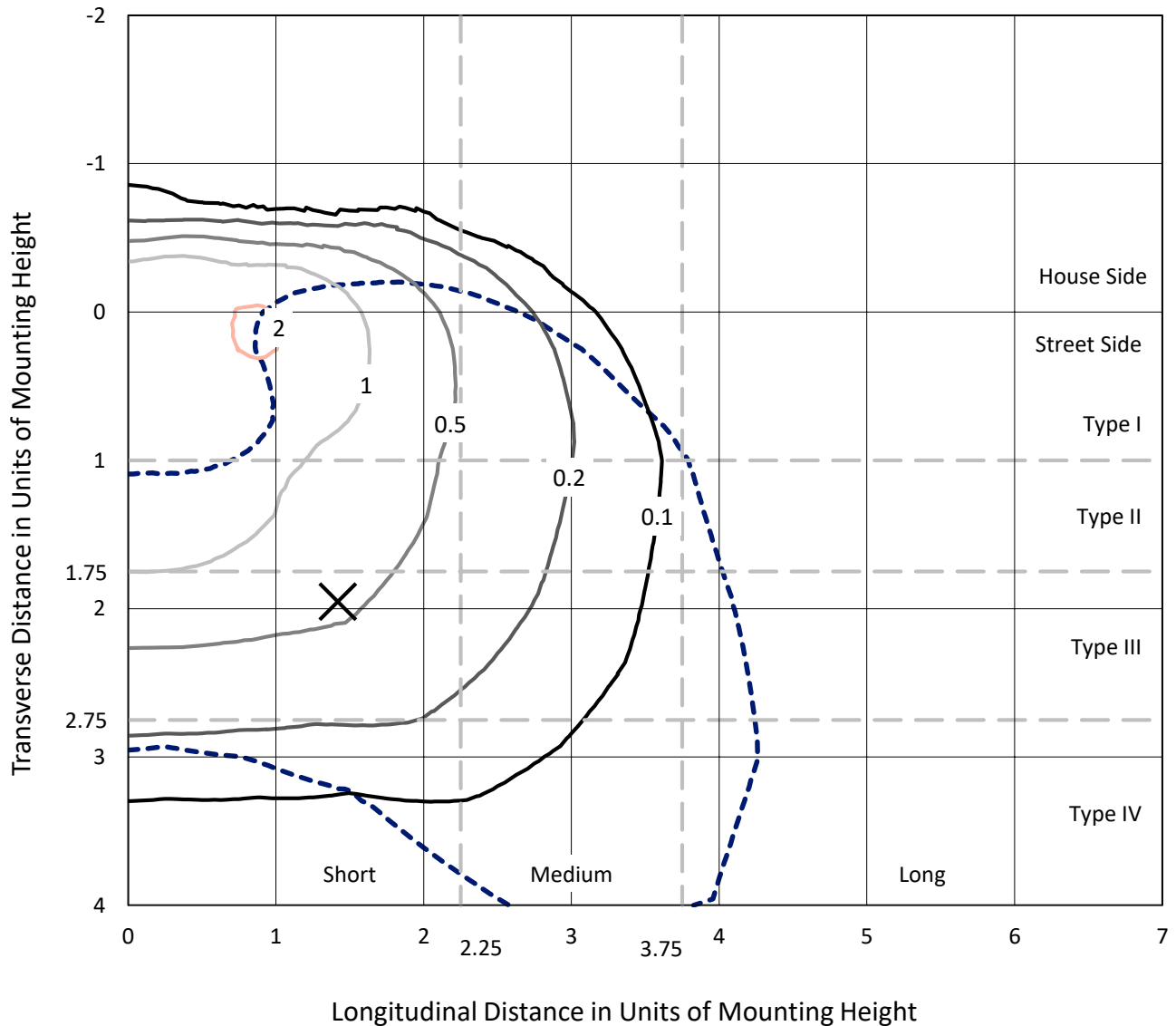
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

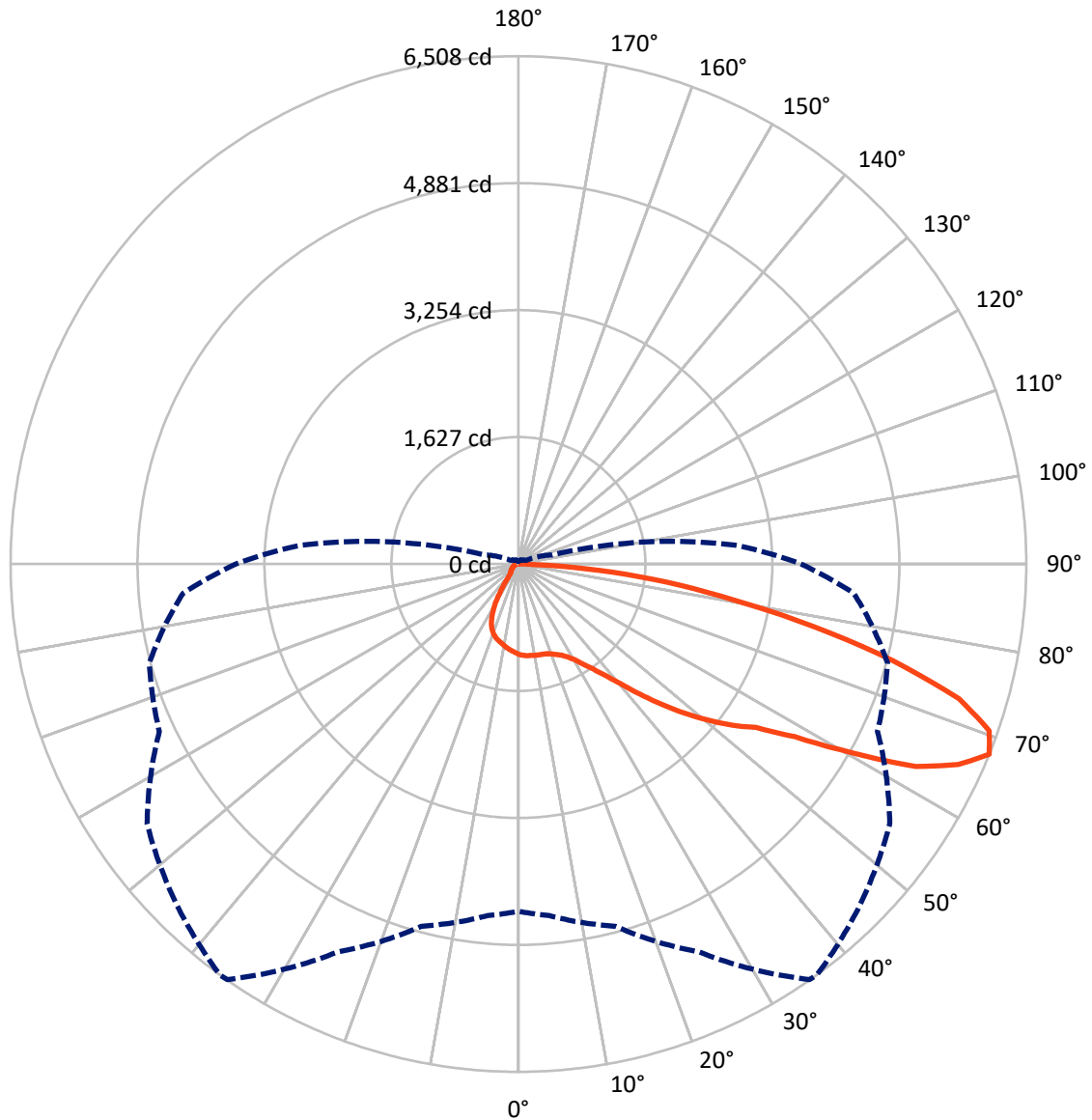
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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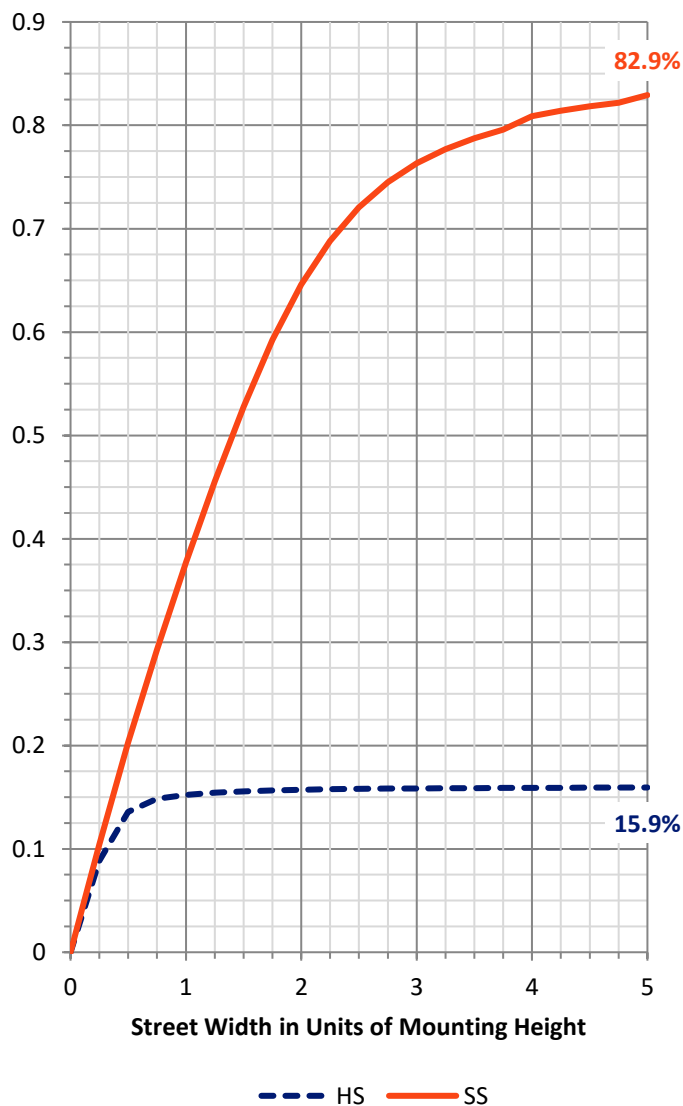
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1692.7	0.0	1692.7
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	8803.3	0.0	8803.3
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	10496.0	0.0	10496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.5	1.0
10°-20°	324.3	3.1
20°-30°	536.4	5.1
30°-40°	850.8	8.1
40°-50°	1468.6	14.0
50°-60°	2176.7	20.7
60°-70°	2814.2	26.8
70°-80°	1899.7	18.1
80°-90°	315.8	3.0
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°	10496.0	100.0
0°-180°	10496.0	100.0

**Coefficient of Utilization**



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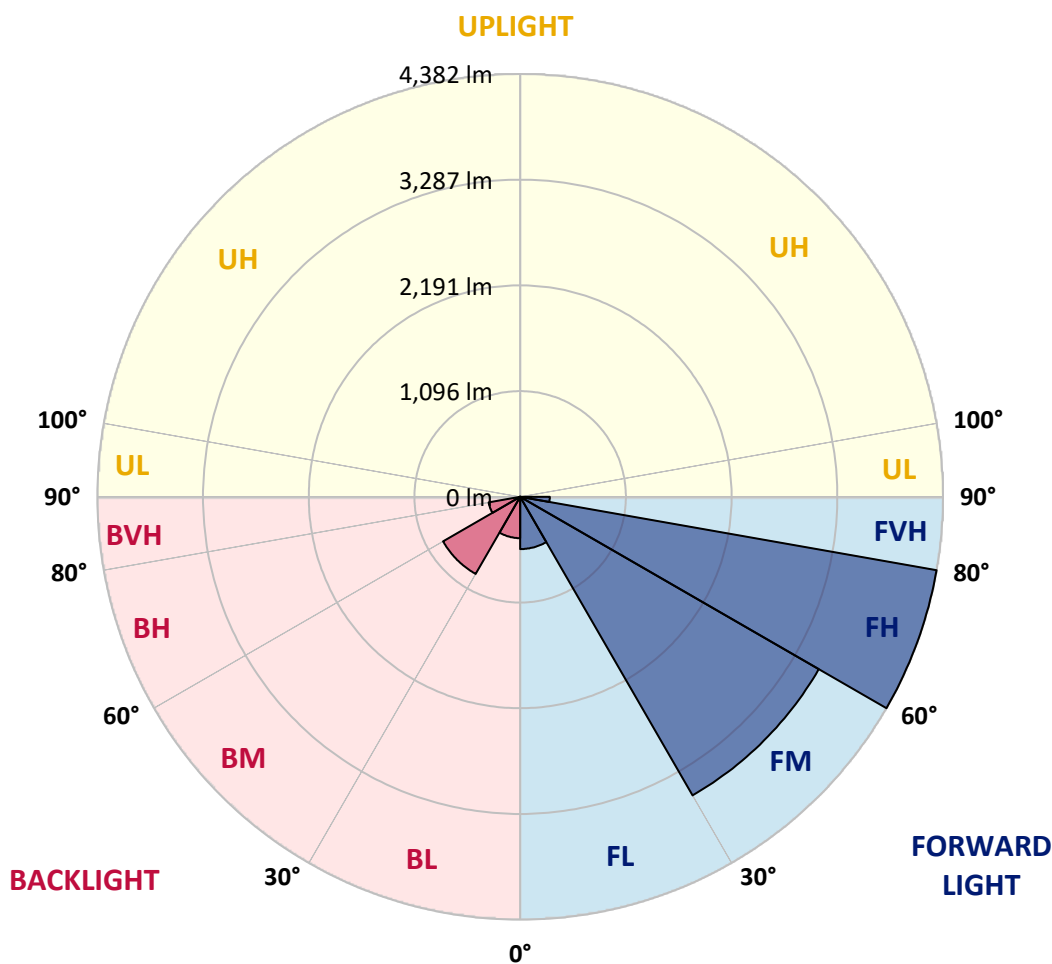
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	541.8	5.2			
FM	(30°-60°)	3572.6	34.0			
FH	(60°-80°)	4382.1	41.8			G2/5000
FVH	(80°-90°)	306.8	2.9			G3/500
BL	(0°-30°)	428.4	4.1	B1/500		
BM	(30°-60°)	923.5	8.8	B1/1000		
BH	(60°-80°)	331.9	3.2	B1/500		G1/500
BVH	(80°-90°)	9.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1165.0	1176.3	1175.1	1173.8	1173.8	1172.6	1165.0	1157.5	1161.3	1160.0	1158.7
5°	1170.0	1181.3	1180.1	1178.8	1178.8	1180.1	1168.8	1160.0	1162.5	1165.0	1163.8
7.5°	1172.6	1182.6	1180.1	1178.8	1177.6	1181.3	1172.6	1173.8	1176.3	1176.3	1176.3
10°	1176.3	1183.9	1183.9	1185.1	1186.4	1190.1	1186.4	1190.1	1200.2	1197.7	1203.9
12.5°	1166.3	1175.1	1178.8	1185.1	1191.4	1193.9	1197.7	1207.7	1220.3	1226.5	1232.8
15°	1162.5	1171.3	1177.6	1185.1	1195.2	1197.7	1207.7	1225.3	1240.3	1252.9	1266.7
17.5°	1175.1	1185.1	1193.9	1198.9	1203.9	1207.7	1217.8	1240.3	1266.7	1289.3	1309.4
20°	1198.9	1209.0	1219.0	1224.0	1227.8	1230.3	1237.8	1259.2	1293.1	1328.2	1357.1
22.5°	1226.5	1236.6	1247.9	1251.6	1260.4	1260.4	1261.7	1283.0	1324.5	1372.2	1407.3
25°	1256.7	1262.9	1273.0	1279.3	1291.8	1294.3	1298.1	1316.9	1368.4	1422.4	1477.6
27.5°	1291.8	1304.4	1314.4	1322.0	1347.1	1348.3	1345.8	1369.7	1419.9	1486.4	1564.2
30°	1355.8	1369.7	1379.7	1392.3	1424.9	1423.6	1440.0	1465.1	1493.9	1566.8	1671.0
32.5°	1457.5	1458.8	1463.8	1480.1	1526.6	1531.6	1563.0	1608.2	1665.9	1712.4	1822.9
35°	1643.3	1637.1	1622.0	1619.5	1650.9	1653.4	1714.9	1810.3	1935.8	2090.3	2261.0
37.5°	1860.5	1876.8	1859.3	1805.3	1810.3	1811.6	1884.4	2006.2	2239.7	2626.3	2788.3
40°	2242.2	2251.0	2141.7	2056.4	2026.2	2012.4	2050.1	2234.6	2533.4	3036.8	3151.1
42.5°	2578.6	2578.6	2476.9	2345.1	2268.5	2278.6	2267.3	2450.6	2834.7	3393.4	3434.8
45°	2915.1	2903.8	2810.9	2700.4	2566.1	2557.3	2528.4	2669.0	3112.2	3649.5	3650.7
47.5°	3228.9	3255.3	3115.9	2994.2	2857.3	2851.0	2799.6	2908.8	3378.3	3874.2	3840.3
50°	3559.1	3595.5	3421.0	3284.2	3136.0	3144.8	3102.1	3178.7	3643.2	4083.9	4022.3
52.5°	4028.6	3960.8	3752.4	3562.9	3409.7	3434.8	3390.9	3436.1	3918.1	4250.8	4122.8
55°	4532.0	4411.5	4238.3	3920.7	3698.5	3695.9	3663.3	3717.3	4195.6	4441.7	4237.0
57.5°	4802.0	4838.4	4798.2	4540.8	4181.8	4175.5	3979.7	3985.9	4450.4	4604.9	4396.5
60°	5109.5	5154.7	5242.6	5081.9	4902.4	4907.4	4419.1	4273.4	4719.1	4735.4	4409.0
62.5°	5272.7	5277.8	5479.9	5536.4	5682.0	5714.6	5344.3	4624.9	4897.4	4835.9	4430.4
65°	4984.0	4992.8	5382.0	5666.9	6152.8	6196.7	6037.3	5305.4	5030.4	4888.6	4410.3
67.5°	4450.4	4522.0	4805.7	5486.2	6501.8	6508.1	6186.7	5808.8	5076.9	4896.1	4313.6
70°	3729.8	3704.7	4063.8	4881.1	6447.8	6401.4	6121.4	5866.6	5043.0	4793.2	3873.0
72.5°	2765.7	2728.0	3098.4	3924.4	5816.3	5904.2	5828.9	5528.8	4914.9	4409.0	3143.6
75°	1893.2	1937.1	2269.8	2959.0	4830.8	4963.9	5296.6	5267.7	4372.6	3654.5	2151.8
77.5°	1295.6	1314.4	1599.4	2202.0	3829.0	3880.5	4431.6	4255.9	3215.1	2245.9	718.1
80°	843.6	837.4	1093.5	1568.0	2807.1	2800.8	3164.9	2692.9	1732.5	765.8	99.2
82.5°	470.8	498.4	655.3	1030.7	1896.9	1917.0	1976.0	1472.6	666.6	89.1	62.8
85°	264.9	276.2	376.6	583.8	994.3	1044.5	881.3	541.1	119.3	49.0	36.4
87.5°	62.8	60.3	120.5	223.5	165.7	179.5	85.4	25.1	12.6	8.8	8.8
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°	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0	1160.0
2.5°	1158.7	1156.2	1153.7	1148.7	1144.9	1133.6	1134.9	1142.4	1134.9	1147.4	1139.9
5°	1161.3	1157.5	1151.2	1136.2	1124.9	1116.1	1113.6	1112.3	1102.3	1113.6	1108.5
7.5°	1171.3	1167.5	1153.7	1137.4	1121.1	1094.7	1091.0	1085.9	1067.1	1074.6	1068.4
10°	1195.2	1190.1	1166.3	1143.7	1118.6	1083.4	1063.3	1048.3	1026.9	1029.4	1023.2
12.5°	1225.3	1220.3	1192.6	1155.0	1119.8	1070.9	1035.7	1006.8	975.5	975.5	969.2
15°	1260.4	1255.4	1224.0	1180.1	1124.9	1060.8	1008.1	961.6	911.4	905.2	897.6
17.5°	1308.1	1300.6	1264.2	1207.7	1138.7	1052.0	980.5	911.4	834.9	811.0	798.4
20°	1357.1	1348.3	1316.9	1246.6	1157.5	1043.2	940.3	846.1	747.0	698.0	689.2
22.5°	1419.9	1417.4	1378.4	1280.5	1163.8	1024.4	890.1	773.3	640.3	572.5	558.7
25°	1493.9	1490.2	1429.9	1306.9	1156.2	986.8	818.5	669.1	519.7	451.9	436.9
27.5°	1581.8	1571.8	1473.9	1313.2	1134.9	927.8	726.9	534.8	384.2	326.4	315.1
30°	1674.7	1659.7	1520.3	1314.4	1092.2	854.9	606.4	392.9	272.4	231.0	231.0
32.5°	1830.4	1778.9	1565.5	1296.8	1030.7	750.7	462.0	264.9	190.8	174.5	174.5
35°	2164.3	2041.3	1637.1	1274.2	950.3	621.4	313.9	179.5	159.4	159.4	158.2
37.5°	2665.2	2436.8	1758.8	1236.6	841.1	462.0	207.1	148.1	151.9	151.9	151.9
40°	2985.4	2745.6	1924.6	1177.6	715.6	313.9	148.1	140.6	143.1	145.6	145.6
42.5°	3284.2	3014.3	2090.3	1096.0	577.5	200.9	138.1	131.8	133.1	133.1	134.3
45°	3473.7	3213.9	2213.3	1009.4	425.6	143.1	135.6	124.3	120.5	120.5	123.0
47.5°	3649.5	3344.4	2267.3	895.1	274.9	134.3	129.3	115.5	110.5	109.2	109.2
50°	3825.2	3478.8	2297.4	759.5	172.0	129.3	119.3	105.5	100.4	99.2	99.2
52.5°	3903.1	3521.4	2229.6	606.4	128.1	124.3	111.7	96.7	89.1	89.1	89.1
55°	3984.7	3600.5	2115.4	434.4	121.8	115.5	102.9	86.6	80.3	82.9	82.9
57.5°	4075.1	3544.0	1993.6	282.5	120.5	104.2	91.6	77.8	72.8	75.3	76.6
60°	4047.5	3557.8	1819.1	189.6	115.5	95.4	82.9	69.0	65.3	65.3	65.3
62.5°	4047.5	3451.1	1532.9	144.4	105.5	87.9	76.6	64.0	57.7	55.2	52.7
65°	3940.7	3198.8	1119.8	125.5	94.2	81.6	69.0	56.5	49.0	45.2	43.9
67.5°	3618.1	2780.7	450.7	114.2	86.6	75.3	64.0	51.5	42.7	37.7	36.4
70°	3075.8	2052.6	129.3	101.7	87.9	70.3	60.3	45.2	37.7	31.4	30.1
72.5°	2279.8	1084.7	105.5	80.3	77.8	60.3	56.5	42.7	32.6	26.4	25.1
75°	1151.2	148.1	90.4	57.7	60.3	62.8	54.0	37.7	30.1	21.3	20.1
77.5°	119.3	87.9	79.1	38.9	42.7	43.9	46.5	35.2	26.4	17.6	16.3
80°	74.1	66.5	77.8	33.9	25.1	30.1	31.4	27.6	21.3	13.8	13.8
82.5°	52.7	56.5	57.7	21.3	18.8	17.6	16.3	16.3	18.8	12.6	12.6
85°	36.4	37.7	23.9	13.8	12.6	11.3	10.0	10.0	8.8	10.0	8.8
87.5°	8.8	7.5	7.5	7.5	6.3	6.3	5.0	5.0	5.0	5.0	6.3
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)