

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: P509392

Luminaire Tested: **VERD-CA2-90-722-U-T4-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509392  
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-CA2-90-722-U-T4-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 1250mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9569 lumens  
Efficiency: N/A  
Efficacy: 101.6 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

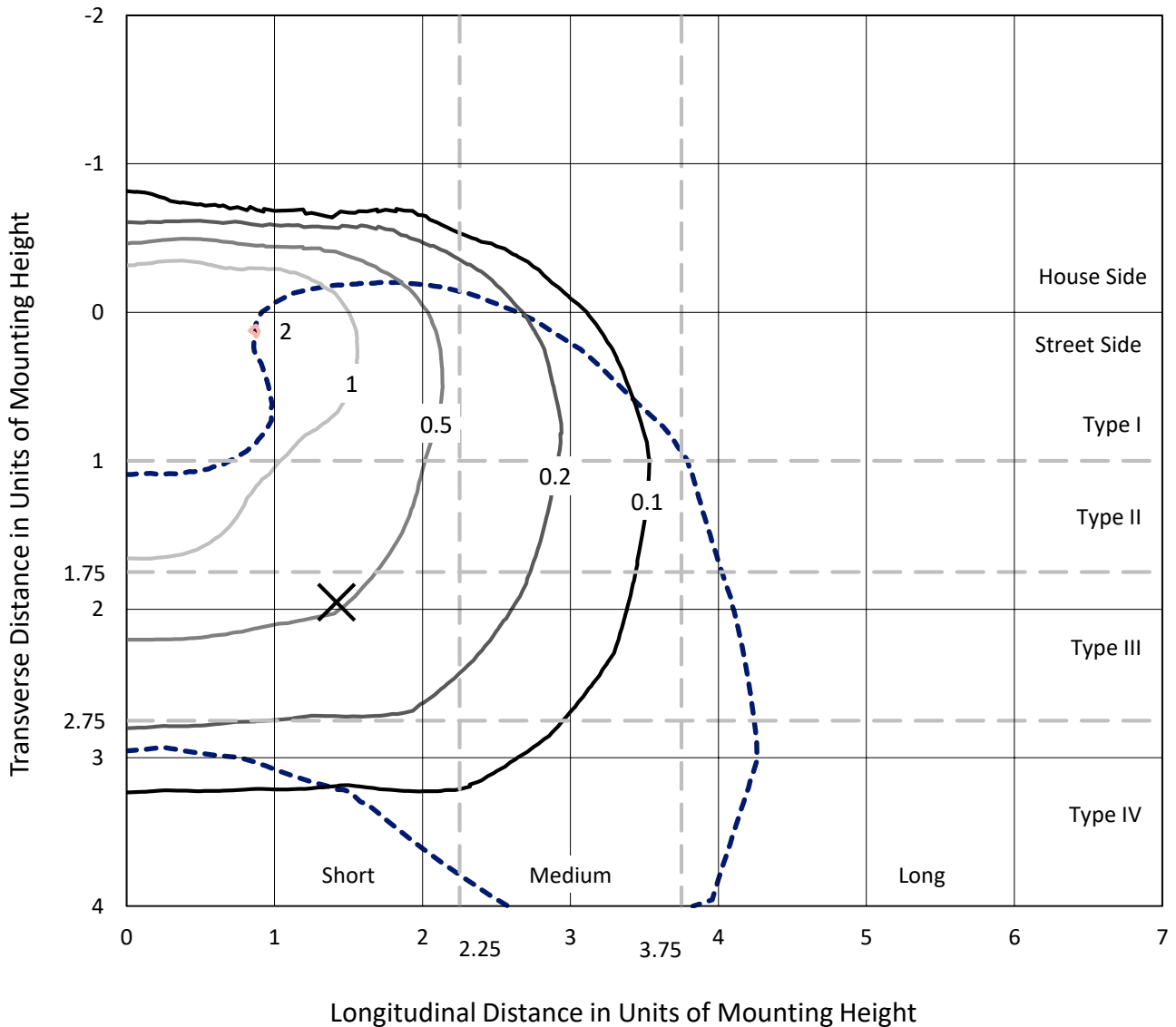
Input Watts (W): 94.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

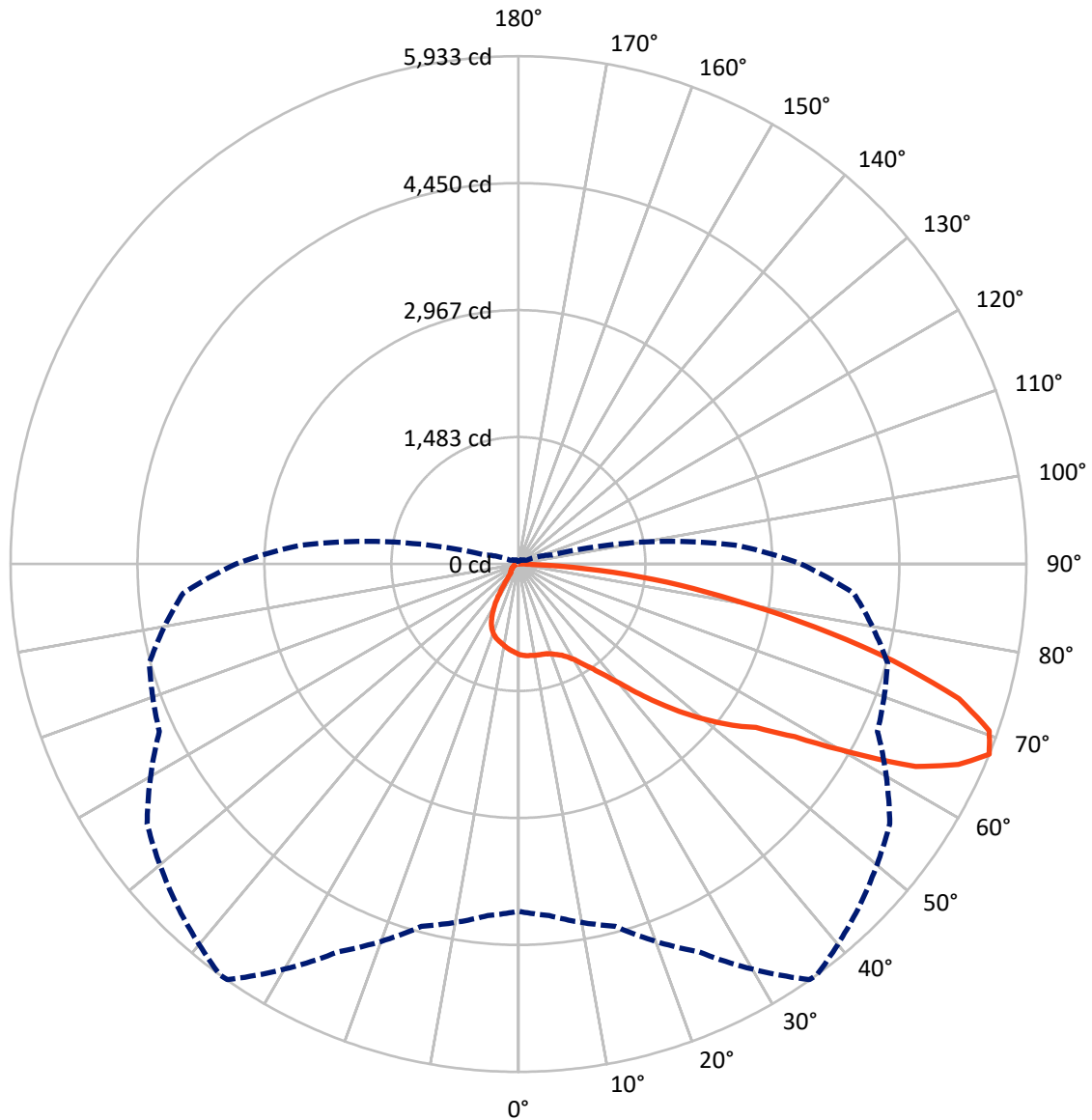
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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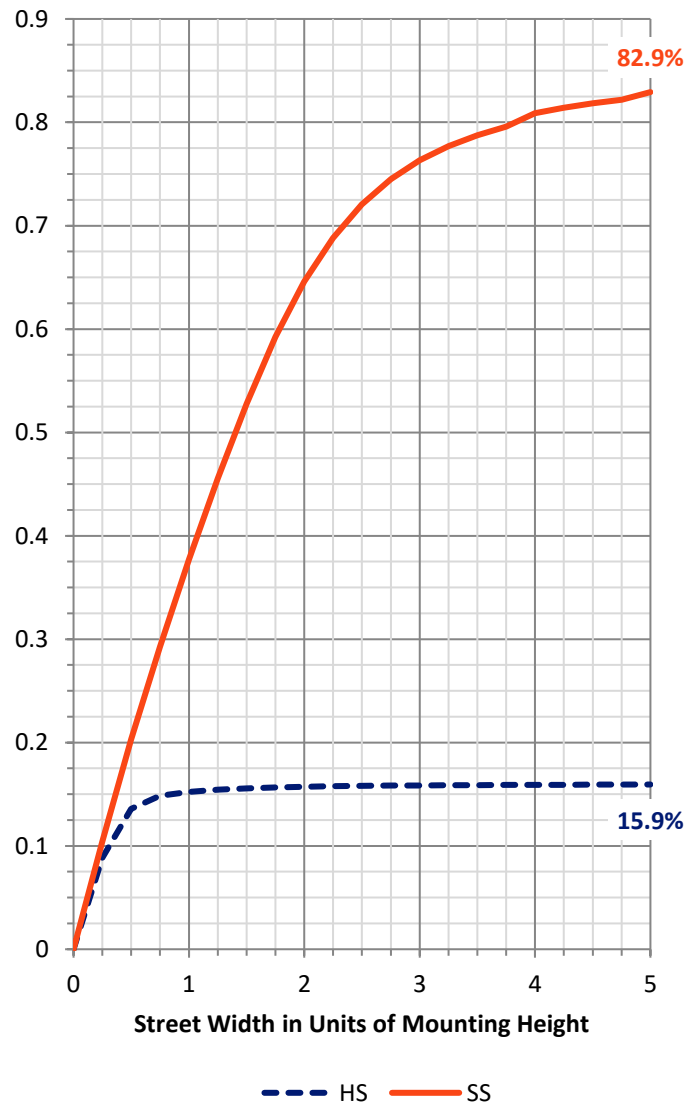
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1543.2	0.0	1543.2
	% Fixture	16.1	0.0	16.1
<b>Street Side</b>	Lumens	8025.8	0.0	8025.8
	% Fixture	83.9	0.0	83.9
<b>Total</b>	Lumens	9569.0	0.0	9569.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.8	1.0
10°-20°	295.7	3.1
20°-30°	489.0	5.1
30°-40°	775.7	8.1
40°-50°	1338.9	14.0
50°-60°	1984.5	20.7
60°-70°	2565.7	26.8
70°-80°	1731.9	18.1
80°-90°	287.9	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°	9569.0	100.0
0°-180°	9569.0	100.0



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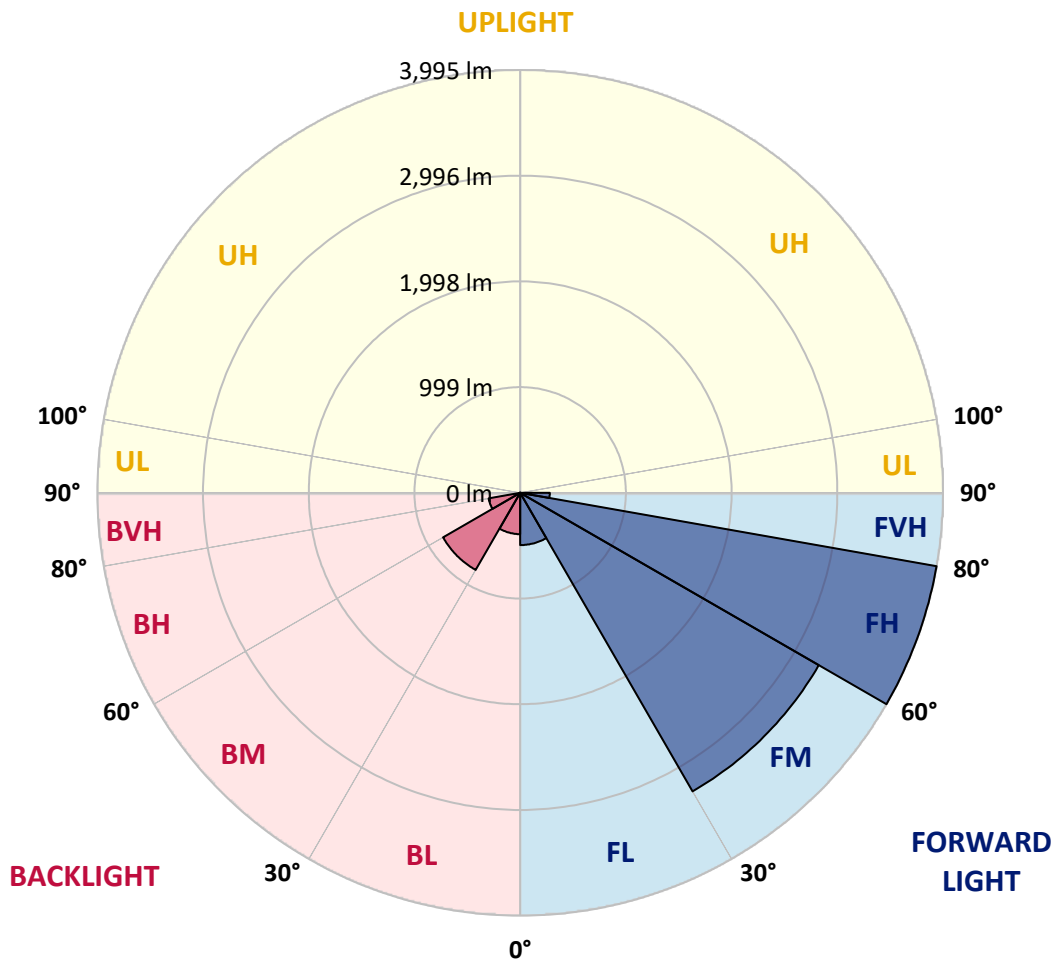
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.9	5.2			
FM	(30°-60°)	3257.1	34.0			
FH	(60°-80°)	3995.1	41.8			G2/5000
FVH	(80°-90°)	279.7	2.9			G3/500
BL	(0°-30°)	390.5	4.1	B1/500		
BM	(30°-60°)	841.9	8.8	B1/1000		
BH	(60°-80°)	302.6	3.2	B1/500		G1/500
BVH	(80°-90°)	8.2	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°	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6
2.5°	1062.1	1072.4	1071.3	1070.1	1070.1	1069.0	1062.1	1055.3	1058.7	1057.6	1056.4
5°	1066.7	1077.0	1075.9	1074.7	1074.7	1075.9	1065.6	1057.6	1059.8	1062.1	1061.0
7.5°	1069.0	1078.2	1075.9	1074.7	1073.6	1077.0	1069.0	1070.1	1072.4	1072.4	1072.4
10°	1072.4	1079.3	1079.3	1080.4	1081.6	1085.0	1081.6	1085.0	1094.2	1091.9	1097.6
12.5°	1063.3	1071.3	1074.7	1080.4	1086.2	1088.5	1091.9	1101.0	1112.5	1118.2	1123.9
15°	1059.8	1067.9	1073.6	1080.4	1089.6	1091.9	1101.0	1117.1	1130.8	1142.2	1154.8
17.5°	1071.3	1080.4	1088.5	1093.0	1097.6	1101.0	1110.2	1130.8	1154.8	1175.4	1193.8
20°	1093.0	1102.2	1111.3	1115.9	1119.4	1121.6	1128.5	1148.0	1178.9	1210.9	1237.2
22.5°	1118.2	1127.4	1137.7	1141.1	1149.1	1149.1	1150.3	1169.7	1207.5	1251.0	1283.0
25°	1145.7	1151.4	1160.6	1166.3	1177.7	1180.0	1183.5	1200.6	1247.5	1296.8	1347.1
27.5°	1177.7	1189.2	1198.3	1205.2	1228.1	1229.2	1226.9	1248.7	1294.5	1355.1	1426.1
30°	1236.1	1248.7	1257.8	1269.3	1299.0	1297.9	1312.8	1335.7	1362.0	1428.4	1523.4
32.5°	1328.8	1330.0	1334.5	1349.4	1391.8	1396.3	1424.9	1466.2	1518.8	1561.1	1661.9
35°	1498.2	1492.5	1478.7	1476.5	1505.1	1507.4	1563.4	1650.4	1764.9	1905.7	2061.3
37.5°	1696.2	1711.1	1695.1	1645.8	1650.4	1651.6	1718.0	1829.0	2041.9	2394.4	2542.0
40°	2044.1	2052.2	1952.6	1874.8	1847.3	1834.7	1869.0	2037.3	2309.7	2768.6	2872.8
42.5°	2350.9	2350.9	2258.2	2138.0	2068.2	2077.3	2067.0	2234.1	2584.4	3093.7	3131.5
45°	2657.6	2647.3	2562.6	2461.9	2339.4	2331.4	2305.1	2433.3	2837.3	3327.2	3328.3
47.5°	2943.7	2967.8	2840.7	2729.7	2605.0	2599.2	2552.3	2651.9	3079.9	3532.0	3501.1
50°	3244.8	3278.0	3118.9	2994.1	2859.1	2867.1	2828.2	2898.0	3321.4	3723.2	3667.1
52.5°	3672.8	3611.0	3421.0	3248.2	3108.6	3131.5	3091.4	3132.6	3572.1	3875.4	3758.7
55°	4131.8	4021.9	3864.0	3574.4	3371.8	3369.5	3339.8	3389.0	3825.0	4049.4	3862.8
57.5°	4377.9	4411.0	4374.4	4139.8	3812.5	3806.7	3628.2	3633.9	4057.4	4198.2	4008.2
60°	4658.3	4699.5	4779.6	4633.1	4469.4	4474.0	4028.8	3896.0	4302.3	4317.2	4019.6
62.5°	4807.1	4811.6	4995.9	5047.4	5180.2	5209.9	4872.3	4216.5	4464.8	4408.8	4039.1
65°	4543.8	4551.8	4906.6	5166.4	5609.4	5649.4	5504.1	4836.8	4586.2	4456.8	4020.8
67.5°	4057.4	4122.6	4381.3	5001.6	5927.6	5933.3	5640.3	5295.8	4628.5	4463.7	3932.6
70°	3400.4	3377.5	3704.9	4450.0	5878.3	5836.0	5580.8	5348.4	4597.6	4369.8	3530.9
72.5°	2521.4	2487.1	2824.7	3577.8	5302.6	5382.8	5314.1	5040.5	4480.9	4019.6	2865.9
75°	1726.0	1766.0	2069.3	2697.7	4404.2	4525.5	4828.8	4802.5	3986.4	3331.7	1961.7
77.5°	1181.2	1198.3	1458.1	2007.5	3490.8	3537.8	4040.2	3880.0	2931.2	2047.6	654.7
80°	769.1	763.4	996.9	1429.5	2559.2	2553.5	2885.4	2455.0	1579.5	698.2	90.4
82.5°	429.2	454.4	597.4	939.7	1729.4	1747.7	1801.5	1342.5	607.7	81.3	57.2
85°	241.5	251.8	343.4	532.2	906.5	952.3	803.5	493.3	108.7	44.6	33.2
87.5°	57.2	54.9	109.9	203.7	151.1	163.7	77.8	22.9	11.4	8.0	8.0
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°	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6	1057.6
2.5°	1056.4	1054.1	1051.8	1047.3	1043.8	1033.5	1034.7	1041.5	1034.7	1046.1	1039.2
5°	1058.7	1055.3	1049.5	1035.8	1025.5	1017.5	1015.2	1014.1	1004.9	1015.2	1010.6
7.5°	1067.9	1064.4	1051.8	1037.0	1022.1	998.0	994.6	990.0	972.9	979.7	974.0
10°	1089.6	1085.0	1063.3	1042.7	1019.8	987.7	969.4	955.7	936.2	938.5	932.8
12.5°	1117.1	1112.5	1087.3	1053.0	1020.9	976.3	944.2	917.9	889.3	889.3	883.6
15°	1149.1	1144.5	1115.9	1075.9	1025.5	967.1	919.1	876.7	830.9	825.2	818.3
17.5°	1192.6	1185.7	1152.5	1101.0	1038.1	959.1	893.9	830.9	761.1	739.4	727.9
20°	1237.2	1229.2	1200.6	1136.5	1055.3	951.1	857.3	771.4	681.0	636.4	628.4
22.5°	1294.5	1292.2	1256.7	1167.4	1061.0	933.9	811.5	705.0	583.7	521.9	509.3
25°	1362.0	1358.6	1303.6	1191.5	1054.1	899.6	746.2	610.0	473.8	412.0	398.3
27.5°	1442.1	1433.0	1343.7	1197.2	1034.7	845.8	662.7	487.6	350.2	297.6	287.3
30°	1526.8	1513.1	1386.0	1198.3	995.7	779.4	552.8	358.2	248.4	210.6	210.6
32.5°	1668.7	1621.8	1427.2	1182.3	939.7	684.4	421.2	241.5	174.0	159.1	159.1
35°	1973.2	1861.0	1492.5	1161.7	866.4	566.5	286.1	163.7	145.4	145.4	144.2
37.5°	2429.9	2221.5	1603.5	1127.4	766.8	421.2	188.8	135.1	138.5	138.5	138.5
40°	2721.7	2503.1	1754.6	1073.6	652.4	286.1	135.1	128.2	130.5	132.8	132.8
42.5°	2994.1	2748.0	1905.7	999.2	526.5	183.1	125.9	120.2	121.3	121.3	122.5
45°	3166.9	2930.0	2017.8	920.2	388.0	130.5	123.6	113.3	109.9	109.9	112.2
47.5°	3327.2	3049.0	2067.0	816.1	250.7	122.5	117.9	105.3	100.7	99.6	99.6
50°	3487.4	3171.5	2094.5	692.4	156.8	117.9	108.7	96.1	91.6	90.4	90.4
52.5°	3558.4	3210.4	2032.7	552.8	116.7	113.3	101.9	88.1	81.3	81.3	81.3
55°	3632.8	3282.5	1928.5	396.0	111.0	105.3	93.9	79.0	73.3	75.5	75.5
57.5°	3715.2	3231.0	1817.5	257.5	109.9	95.0	83.6	71.0	66.4	68.7	69.8
60°	3690.0	3243.6	1658.4	172.8	105.3	87.0	75.5	62.9	59.5	59.5	59.5
62.5°	3690.0	3146.3	1397.5	131.6	96.1	80.1	69.8	58.4	52.6	50.4	48.1
65°	3592.7	2916.3	1020.9	114.5	85.8	74.4	62.9	51.5	44.6	41.2	40.1
67.5°	3298.6	2535.1	410.9	104.2	79.0	68.7	58.4	46.9	38.9	34.3	33.2
70°	2804.1	1871.3	117.9	92.7	80.1	64.1	54.9	41.2	34.3	28.6	27.5
72.5°	2078.5	988.9	96.1	73.3	71.0	54.9	51.5	38.9	29.8	24.0	22.9
75°	1049.5	135.1	82.4	52.6	54.9	57.2	49.2	34.3	27.5	19.5	18.3
77.5°	108.7	80.1	72.1	35.5	38.9	40.1	42.3	32.0	24.0	16.0	14.9
80°	67.5	60.7	71.0	30.9	22.9	27.5	28.6	25.2	19.5	12.6	12.6
82.5°	48.1	51.5	52.6	19.5	17.2	16.0	14.9	14.9	17.2	11.4	11.4
85°	33.2	34.3	21.7	12.6	11.4	10.3	9.2	9.2	8.0	9.2	8.0
87.5°	8.0	6.9	6.9	6.9	5.7	5.7	4.6	4.6	4.6	4.6	5.7
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)