

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: P509254

Luminaire Tested: **VERD-CA2-60-727-U-T3-HSS**

Issue Date: 3/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509254  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-CA2-60-727-U-T3-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 850mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7316 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

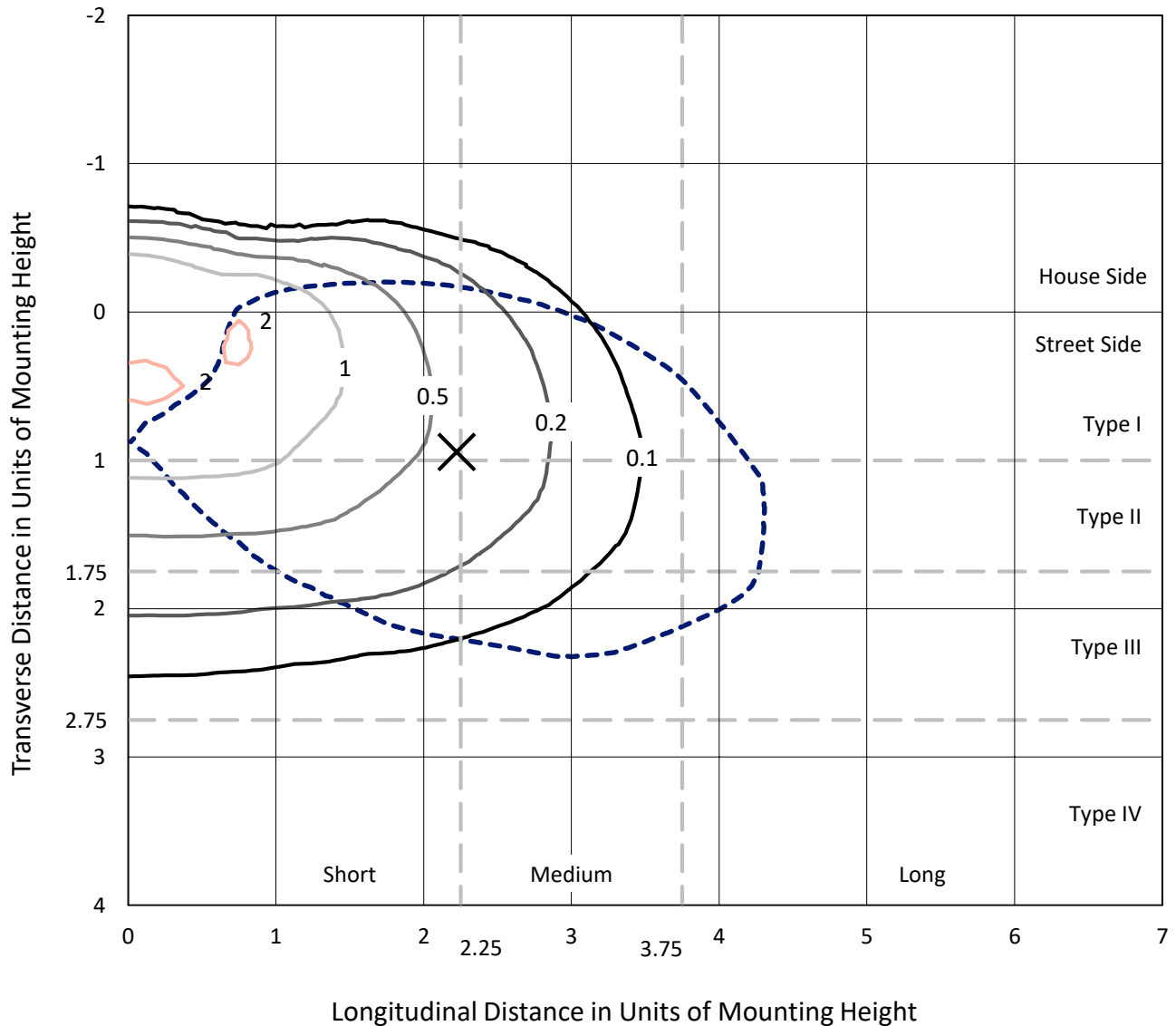
Input Watts (W): 63.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

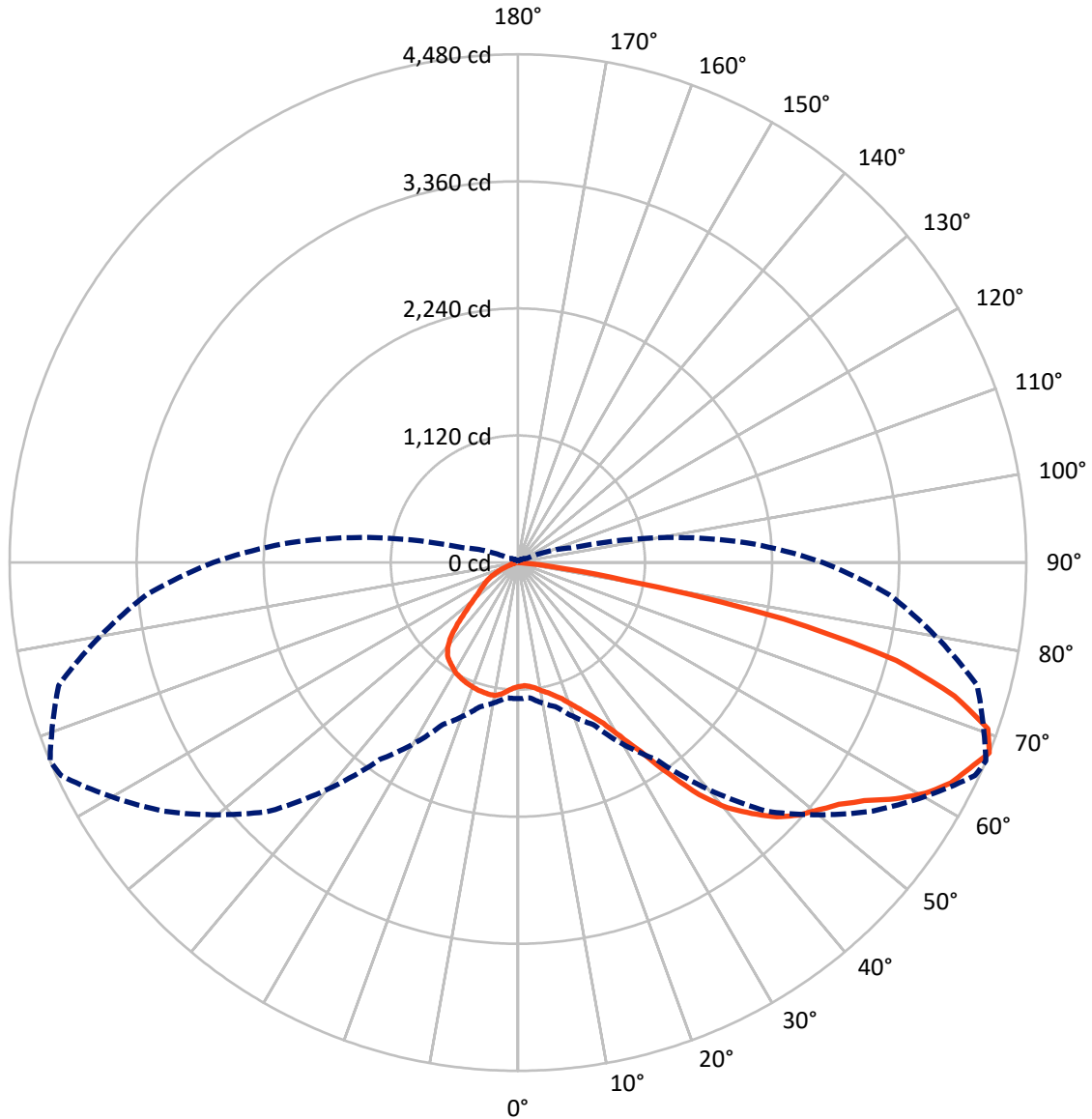
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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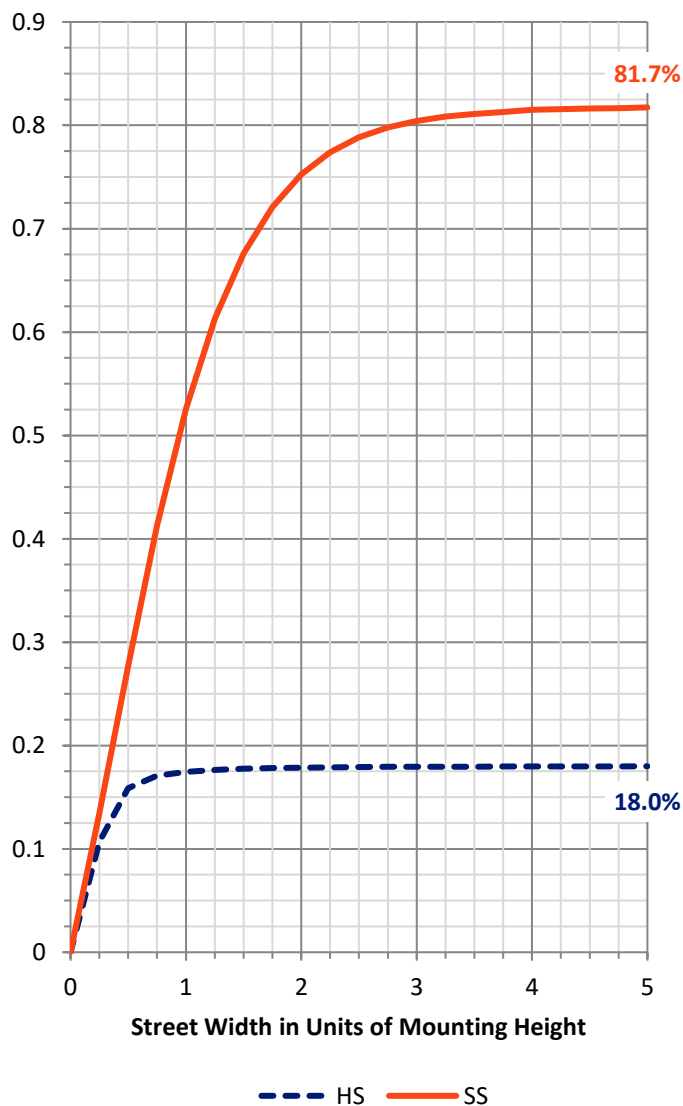
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1333.0	0.0	1333.0
	% Fixture	18.2	0.0	18.2
<b>Street Side</b>	Lumens	5983.0	0.0	5983.0
	% Fixture	81.8	0.0	81.8
<b>Total</b>	Lumens	7316.0	0.0	7316.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.4	1.5
10°-20°	342.8	4.7
20°-30°	584.9	8.0
30°-40°	910.4	12.4
40°-50°	1285.1	17.6
50°-60°	1547.8	21.2
60°-70°	1599.6	21.9
70°-80°	881.2	12.0
80°-90°	54.9	0.8
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°	7316.0	100.0
0°-180°	7316.0	100.0

**Coefficient of Utilization**



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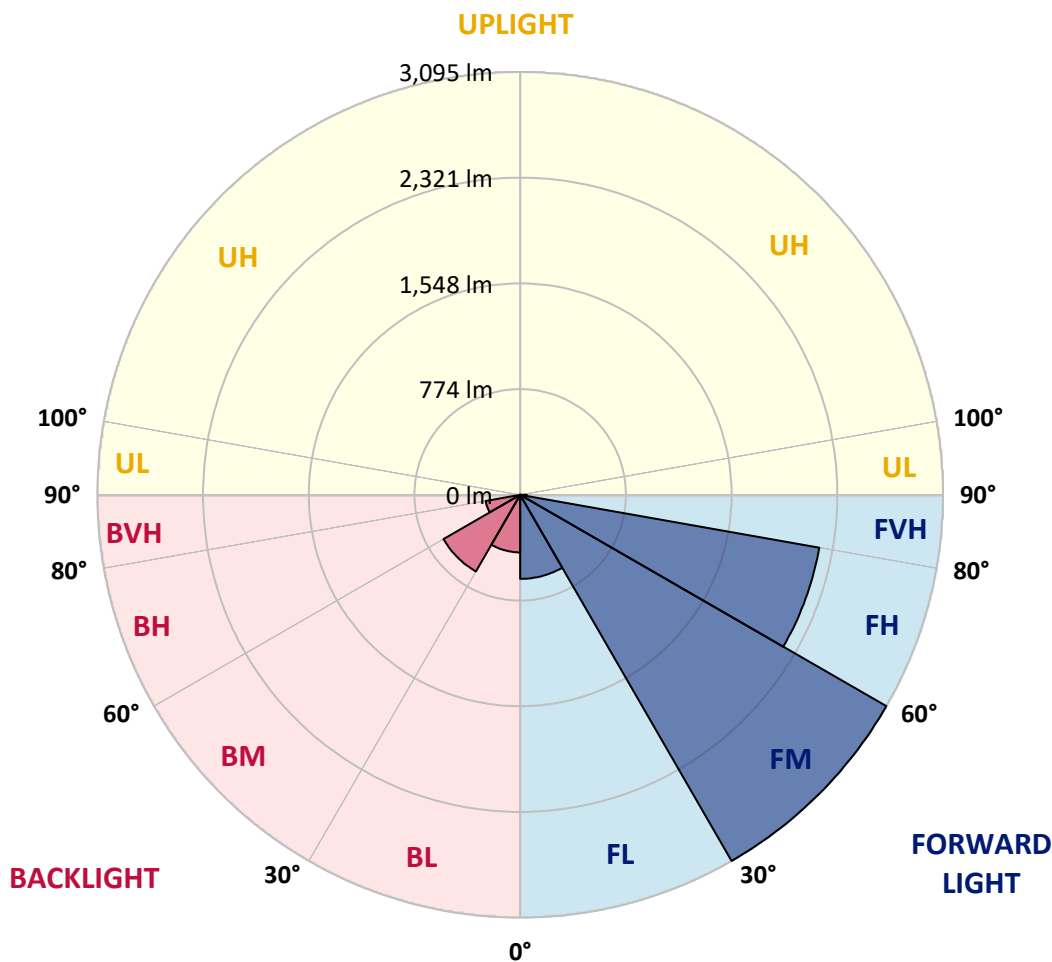
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.6	8.4			
FM (30°-60°)	3095.3	42.3			
FH (60°-80°)	2223.8	30.4			G2/5000
FVH (80°-90°)	48.3	0.7			G1/100
BL (0°-30°)	421.5	5.8	B1/500		
BM (30°-60°)	648.0	8.9	B1/1000		
BH (60°-80°)	256.9	3.5	B1/500		G1/500
BVH (80°-90°)	6.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1082.2	1093.2	1093.2	1089.8	1091.5	1083.9	1078.8	1084.7	1086.4	1091.5	1098.3
5°	1103.4	1116.1	1115.2	1109.3	1104.2	1097.4	1090.7	1095.7	1096.6	1098.3	1106.8
7.5°	1148.3	1160.1	1155.0	1149.1	1146.6	1131.3	1116.9	1116.1	1117.8	1122.8	1132.2
10°	1206.7	1216.0	1214.3	1205.0	1198.2	1175.3	1155.0	1147.4	1148.3	1149.9	1166.0
12.5°	1272.7	1285.4	1276.1	1263.4	1251.6	1218.5	1190.6	1179.6	1177.9	1182.1	1195.7
15°	1337.9	1351.5	1344.7	1337.1	1310.0	1273.6	1238.0	1220.2	1218.5	1218.5	1227.0
17.5°	1423.5	1428.5	1424.3	1413.3	1382.8	1337.1	1294.7	1268.5	1264.3	1266.8	1268.5
20°	1518.3	1527.6	1522.5	1510.7	1466.6	1417.5	1364.2	1332.9	1330.3	1332.9	1316.8
22.5°	1633.5	1636.8	1634.3	1614.8	1575.0	1509.8	1439.5	1404.0	1404.0	1406.5	1373.5
25°	1731.7	1752.0	1746.1	1722.4	1675.8	1619.1	1534.4	1490.4	1492.9	1494.6	1448.9
27.5°	1846.0	1862.9	1858.7	1840.9	1810.4	1738.5	1636.8	1608.1	1605.5	1603.0	1531.8
30°	1955.2	1967.9	1976.4	1972.2	1947.6	1879.9	1789.3	1768.1	1774.9	1769.8	1647.0
32.5°	2044.2	2066.2	2089.9	2095.0	2088.2	2028.1	1962.0	1973.0	1981.5	2041.6	1967.9
35°	2120.4	2144.1	2183.0	2223.7	2231.3	2207.6	2174.6	2255.0	2279.6	2402.3	2324.4
37.5°	2200.0	2220.3	2259.2	2323.6	2365.9	2378.6	2410.8	2537.8	2597.1	2703.0	2558.2
40°	2236.4	2256.7	2324.4	2405.7	2493.8	2564.9	2629.3	2776.6	2842.7	2874.9	2686.9
42.5°	2200.0	2219.4	2328.7	2481.9	2601.3	2758.8	2831.7	2979.0	3023.0	3019.7	2845.2
45°	2164.4	2183.0	2297.3	2501.4	2698.7	2937.5	2999.3	3164.5	3196.6	3156.0	2936.7
47.5°	2118.7	2144.1	2262.6	2489.6	2785.9	3099.3	3156.0	3296.6	3325.4	3265.2	3041.7
50°	2062.8	2084.8	2222.8	2470.9	2843.5	3220.4	3280.5	3420.2	3427.8	3371.9	3136.5
52.5°	1998.4	2010.3	2160.2	2433.7	2893.5	3309.3	3377.9	3524.3	3542.1	3526.9	3249.1
55°	1902.7	1923.9	2084.8	2375.3	2896.9	3355.8	3453.2	3671.7	3703.9	3668.3	3317.7
57.5°	1802.0	1824.8	1991.7	2294.0	2846.9	3385.5	3590.4	3863.1	3926.6	3812.3	3373.6
60°	1691.0	1711.4	1875.6	2173.7	2758.0	3427.8	3731.8	4087.5	4127.3	3935.0	3410.9
62.5°	1562.3	1578.4	1735.1	2028.1	2621.7	3416.8	3853.8	4267.8	4280.5	4045.1	3407.5
65°	1405.7	1404.8	1550.5	1824.8	2398.1	3328.7	3875.8	4358.4	4373.7	4116.3	3377.0
67.5°	1199.1	1196.5	1318.5	1576.7	2116.1	3099.3	3817.3	4443.1	4479.5	4190.8	3288.1
70°	939.9	943.3	1035.6	1266.0	1717.3	2749.5	3663.2	4386.4	4394.0	4047.7	3057.8
72.5°	664.7	663.0	725.7	881.5	1269.3	2146.6	3219.5	3999.4	4023.1	3693.7	2664.0
75°	304.8	317.5	474.2	538.6	766.3	1461.6	2648.8	3398.2	3443.9	3179.7	2077.2
77.5°	56.7	58.4	101.6	204.9	299.8	527.6	1582.7	2301.6	2397.3	2166.9	1170.3
80°	44.9	45.7	60.1	98.2	125.3	237.1	520.8	948.4	969.6	845.1	421.7
82.5°	33.0	33.9	44.9	63.5	58.4	102.5	216.8	276.1	293.0	272.7	167.7
85°	19.5	20.3	26.3	31.3	30.5	40.6	36.4	33.0	29.6	24.6	21.2
87.5°	5.1	6.8	11.0	11.0	8.5	7.6	6.8	5.9	6.8	5.9	5.9
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°	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4	1092.4
2.5°	1100.0	1099.1	1101.7	1108.5	1114.4	1115.2	1123.7	1134.7	1129.6	1144.0	1138.9
5°	1111.8	1114.4	1123.7	1134.7	1144.9	1153.3	1166.0	1184.7	1178.7	1192.3	1187.2
7.5°	1138.9	1143.2	1157.6	1168.6	1180.4	1177.9	1188.9	1199.9	1186.4	1200.8	1194.0
10°	1171.1	1176.2	1184.7	1188.9	1185.5	1183.8	1181.3	1179.6	1161.8	1172.0	1167.7
12.5°	1199.9	1200.8	1198.2	1187.2	1179.6	1159.3	1149.9	1145.7	1118.6	1126.2	1121.2
15°	1227.8	1216.0	1203.3	1177.9	1156.7	1125.4	1105.1	1087.3	1061.9	1072.0	1061.9
17.5°	1258.3	1240.6	1207.5	1170.3	1127.1	1081.4	1048.3	1019.5	981.4	979.7	976.4
20°	1297.3	1271.0	1217.7	1156.7	1094.9	1026.3	973.8	925.5	868.0	860.3	845.1
22.5°	1346.4	1307.4	1232.9	1138.9	1055.1	968.7	879.8	800.2	727.4	704.5	696.1
25°	1403.1	1354.9	1241.4	1122.8	1017.0	884.9	763.8	660.5	575.0	550.4	543.6
27.5°	1474.3	1415.0	1254.1	1099.1	956.0	782.4	624.9	510.6	434.4	394.6	388.7
30°	1572.5	1481.9	1271.9	1075.4	882.4	662.2	484.4	351.4	279.4	255.7	251.5
32.5°	1840.1	1641.1	1291.4	1033.1	785.0	528.4	321.8	224.4	176.1	156.7	155.0
35°	2179.6	1932.4	1362.5	984.8	667.3	366.7	199.8	133.8	107.5	99.9	99.9
37.5°	2399.0	2158.5	1481.0	917.1	512.3	224.4	120.2	87.2	82.1	81.3	81.3
40°	2514.1	2258.4	1566.6	823.9	343.0	130.4	84.7	75.4	73.7	72.0	72.0
42.5°	2660.6	2343.9	1640.2	697.8	199.0	91.5	74.5	68.6	66.0	64.4	64.4
45°	2741.9	2437.1	1593.7	547.9	113.5	82.1	68.6	61.8	59.3	59.3	59.3
47.5°	2821.5	2526.0	1534.4	393.8	96.5	75.4	64.4	57.6	55.0	56.7	56.7
50°	2912.1	2586.1	1440.4	294.7	91.5	70.3	58.4	52.5	50.8	53.3	53.3
52.5°	2996.8	2592.0	1289.7	235.4	84.7	65.2	54.2	48.3	46.6	48.3	48.3
55°	3021.4	2573.4	1246.5	187.1	80.4	60.1	50.8	44.9	40.6	40.6	39.8
57.5°	3015.4	2537.0	1141.5	158.4	75.4	55.0	46.6	39.8	34.7	33.0	33.0
60°	2995.1	2486.2	1030.5	138.0	70.3	50.8	41.5	33.9	28.8	27.1	27.1
62.5°	2969.7	2390.5	873.9	120.2	65.2	49.1	34.7	27.9	24.6	22.9	22.9
65°	2863.0	2241.5	699.5	102.5	60.1	43.2	30.5	24.6	21.2	19.5	19.5
67.5°	2686.0	2014.5	505.5	87.2	55.9	36.4	27.1	21.2	17.8	16.9	16.1
70°	2421.8	1701.2	313.3	75.4	48.3	33.0	23.7	18.6	16.1	13.5	13.5
72.5°	2018.8	1332.0	164.3	59.3	38.1	27.9	21.2	16.9	13.5	11.9	11.0
75°	1419.2	821.4	118.6	45.7	26.3	22.9	17.8	14.4	11.9	10.2	9.3
77.5°	685.1	282.8	83.0	33.9	18.6	16.9	13.5	11.9	9.3	8.5	8.5
80°	250.7	160.9	59.3	24.6	15.2	13.5	10.2	9.3	7.6	6.8	6.8
82.5°	112.6	76.2	33.9	16.1	11.0	10.2	7.6	5.9	5.9	5.9	5.9
85°	18.6	16.1	11.0	7.6	5.9	5.1	5.1	4.2	4.2	4.2	4.2
87.5°	5.1	5.1	4.2	4.2	3.4	2.5	1.7	1.7	1.7	2.5	2.5
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)