

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: P509273

Luminaire Tested: **VERD-CA2-60-740-U-T4**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509273
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-60-740-U-T4
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 850mA LEDS AND TYPE IV OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9277 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

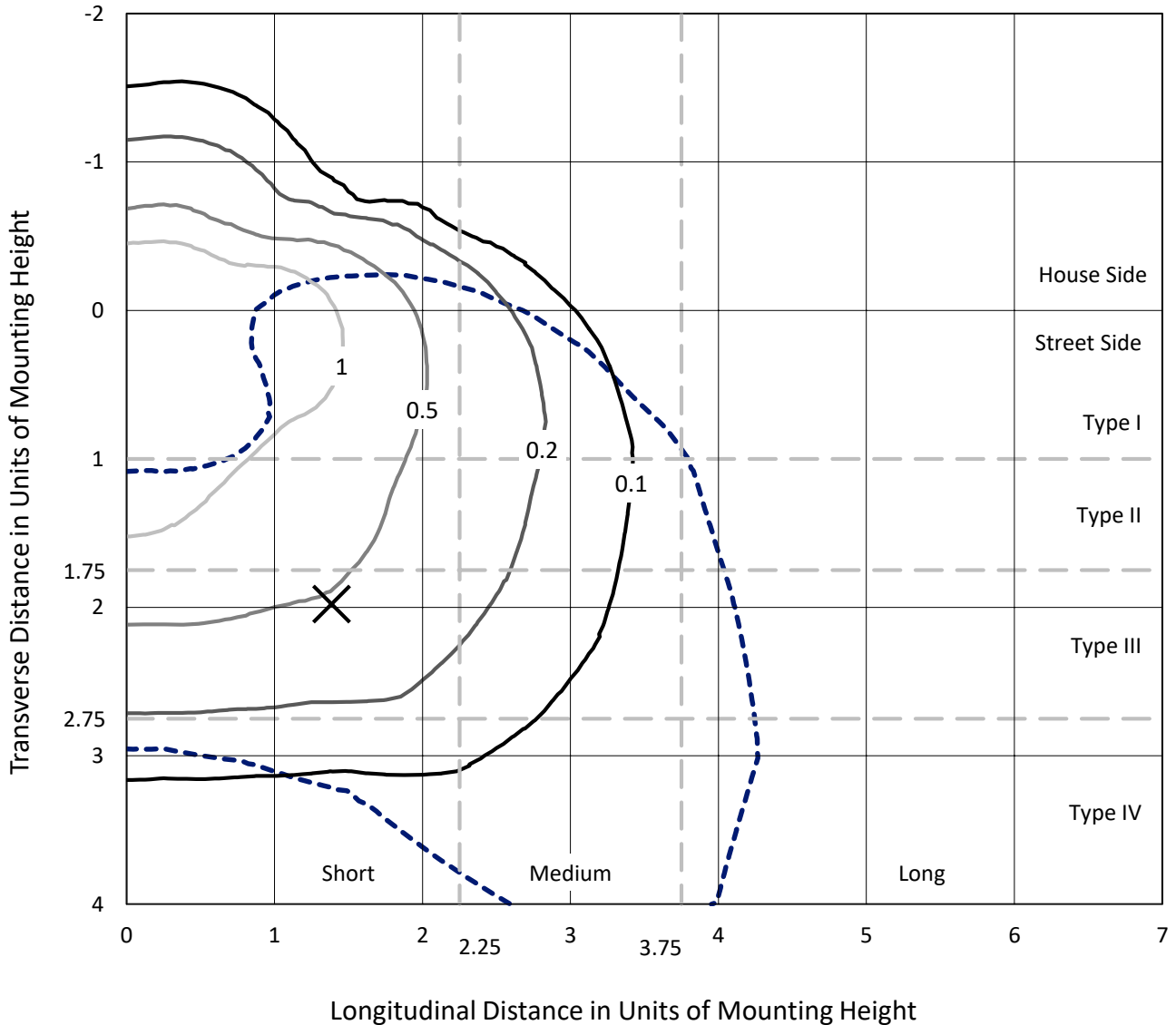
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

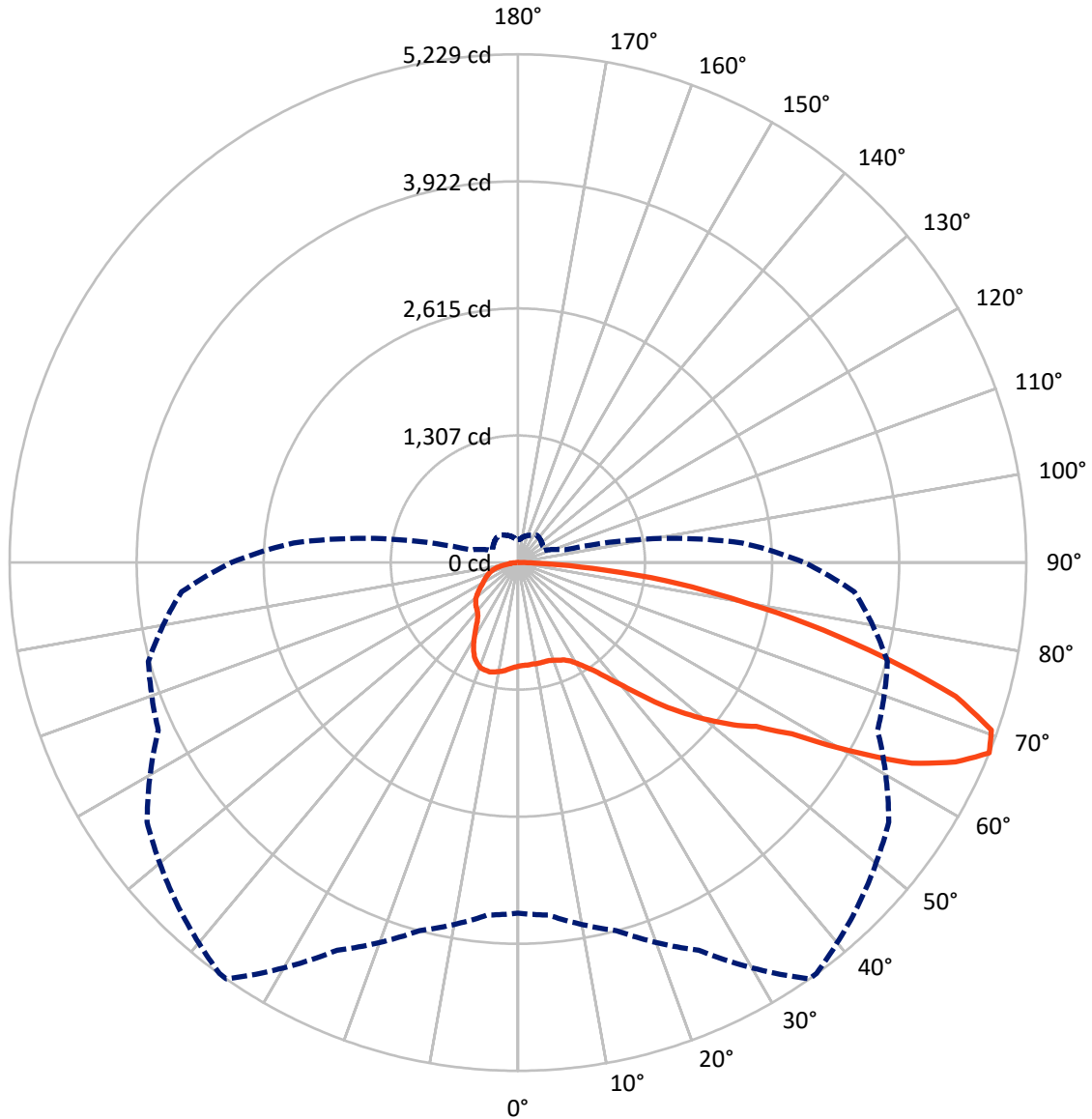
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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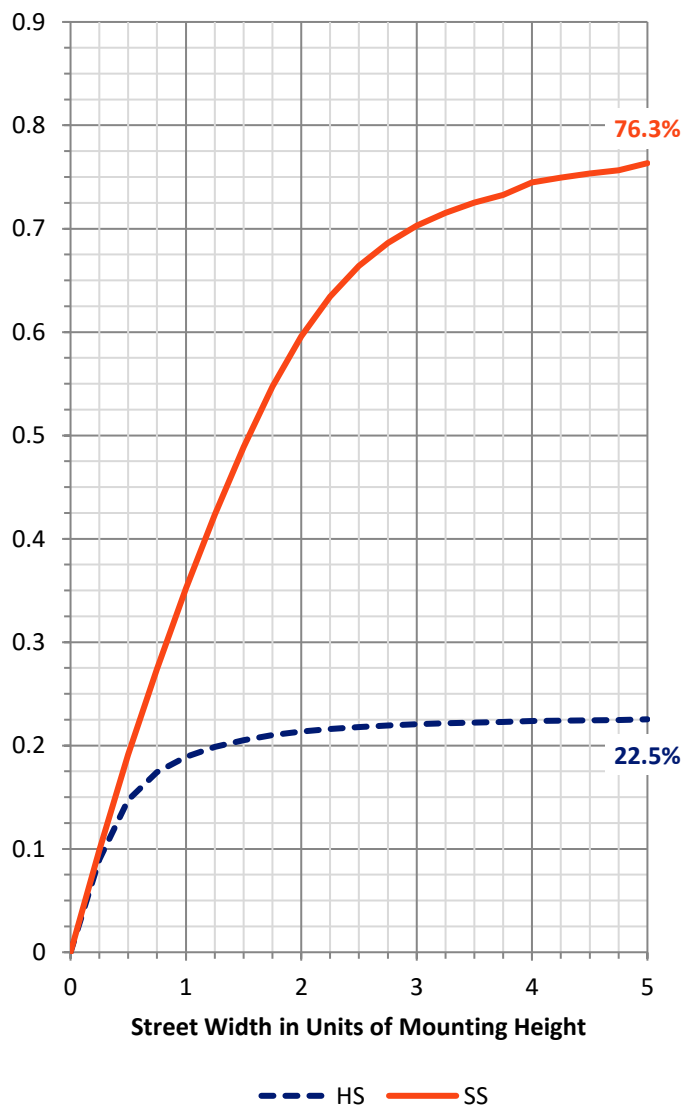
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2113.5	0.0	2113.5
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	7163.5	0.0	7163.5
	% Fixture	77.2	0.0	77.2
Total	Lumens	9277.0	0.0	9277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.2	1.1
10°-20°	316.4	3.4
20°-30°	528.1	5.7
30°-40°	812.6	8.8
40°-50°	1339.1	14.4
50°-60°	1912.7	20.6
60°-70°	2381.4	25.7
70°-80°	1607.1	17.3
80°-90°	276.2	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°	9277.0	100.0
0°-180°	9277.0	100.0

Coefficient of Utilization



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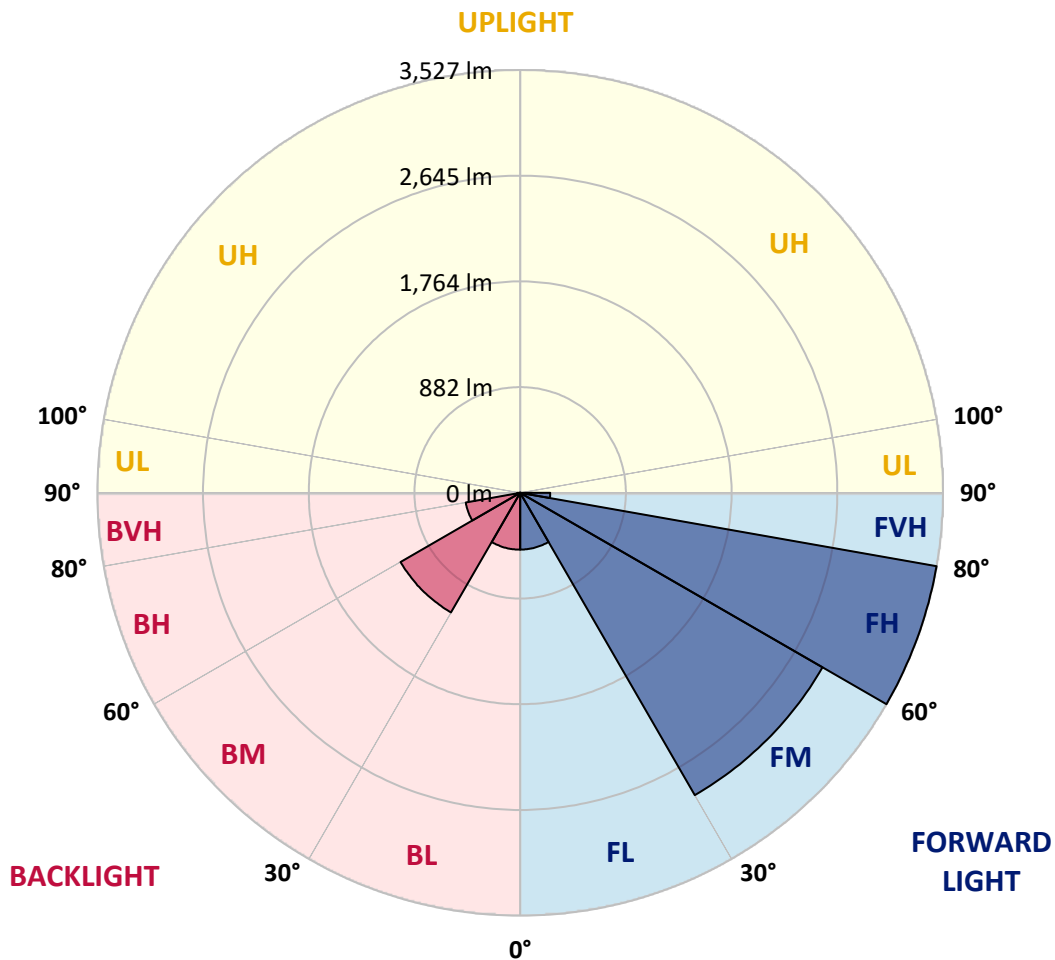
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	473.4	5.1			
FM	(30°-60°)	2912.2	31.4			
FH	(60°-80°)	3527.2	38.0			G2/5000
FVH	(80°-90°)	250.8	2.7			G3/500
BL	(0°-30°)	474.3	5.1	B1/500		
BM	(30°-60°)	1152.3	12.4	B2/2500		
BH	(60°-80°)	461.4	5.0	B1/500		G1/500
BVH	(80°-90°)	25.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0
2.5°	1051.0	1061.0	1060.0	1058.0	1059.0	1060.0	1055.0	1052.0	1056.0	1057.0	1062.0
5°	1050.0	1058.0	1057.0	1057.0	1060.0	1059.0	1051.0	1045.0	1052.0	1057.0	1062.0
7.5°	1049.0	1056.0	1056.0	1053.0	1055.0	1055.0	1051.0	1055.0	1055.0	1063.0	1069.0
10°	1048.0	1054.0	1054.0	1055.0	1058.0	1059.0	1059.0	1062.0	1073.0	1076.0	1088.0
12.5°	1036.0	1041.0	1045.0	1051.0	1057.0	1059.0	1064.0	1073.0	1087.0	1094.0	1108.0
15°	1026.0	1033.0	1040.0	1046.0	1055.0	1057.0	1068.0	1083.0	1098.0	1113.0	1134.0
17.5°	1030.0	1039.0	1047.0	1052.0	1059.0	1061.0	1072.0	1092.0	1116.0	1138.0	1167.1
20°	1039.0	1049.0	1057.0	1063.0	1072.0	1074.0	1083.0	1102.0	1133.0	1167.1	1200.1
22.5°	1061.0	1068.0	1077.0	1080.0	1090.0	1092.0	1098.0	1117.0	1157.1	1200.1	1242.1
25°	1081.0	1089.0	1096.0	1099.0	1110.0	1112.0	1123.0	1139.0	1186.1	1235.1	1296.1
27.5°	1107.0	1115.0	1124.0	1127.0	1146.0	1148.0	1153.0	1177.1	1224.1	1281.1	1357.1
30°	1157.1	1162.1	1172.1	1184.1	1203.1	1205.1	1216.1	1241.1	1275.1	1345.1	1446.1
32.5°	1233.1	1240.1	1236.1	1252.1	1280.1	1280.1	1318.1	1360.1	1402.1	1451.1	1585.1
35°	1379.1	1375.1	1371.1	1357.1	1374.1	1380.1	1433.1	1504.1	1621.1	1759.1	1891.1
37.5°	1560.1	1559.1	1538.1	1506.1	1505.1	1507.1	1555.1	1675.1	1861.1	2168.1	2310.1
40°	1838.1	1846.1	1772.1	1706.1	1669.1	1661.1	1699.1	1850.1	2100.1	2509.1	2606.1
42.5°	2116.1	2099.1	2039.1	1932.1	1870.1	1865.1	1872.1	2004.1	2332.1	2785.1	2820.1
45°	2362.1	2375.1	2281.1	2216.1	2102.1	2104.1	2073.1	2194.1	2562.1	2980.1	2986.1
47.5°	2613.1	2623.1	2506.1	2432.1	2323.1	2323.1	2274.1	2370.1	2767.1	3166.1	3154.1
50°	2881.1	2904.1	2757.1	2645.1	2545.1	2541.1	2526.1	2586.1	2969.1	3323.1	3275.1
52.5°	3243.1	3164.1	3025.1	2873.1	2774.1	2762.1	2748.1	2791.1	3201.1	3451.1	3353.1
55°	3617.2	3510.2	3368.1	3164.1	2977.1	2994.1	2959.1	3008.1	3414.1	3604.2	3455.1
57.5°	3844.2	3884.2	3807.2	3632.2	3324.1	3321.1	3189.1	3215.1	3605.2	3733.2	3563.2
60°	4083.2	4139.2	4191.2	4087.2	3941.2	3875.2	3536.2	3435.1	3820.2	3827.2	3551.2
62.5°	4208.2	4197.2	4423.2	4435.2	4548.2	4556.2	4225.2	3720.2	3947.2	3906.2	3593.2
65°	3985.2	3991.2	4363.2	4557.2	4946.2	4969.2	4848.2	4221.2	4054.2	3943.2	3545.2
67.5°	3607.2	3641.2	3920.2	4400.2	5229.2	5225.2	4963.2	4657.2	4082.2	3935.2	3475.2
70°	2950.1	2986.1	3272.1	3969.2	5167.2	5134.2	4914.2	4692.2	4058.2	3863.2	3126.1
72.5°	2263.1	2258.1	2554.1	3170.1	4711.2	4743.2	4663.2	4445.2	3943.2	3555.2	2561.1
75°	1595.1	1570.1	1833.1	2403.1	3885.2	4003.2	4276.2	4216.2	3508.2	2926.1	1712.1
77.5°	1047.0	1085.0	1295.1	1777.1	3055.1	3154.1	3531.2	3412.1	2596.1	1867.1	618.0
80°	665.0	699.0	869.0	1269.1	2221.1	2266.1	2574.1	2170.1	1387.1	616.0	86.0
82.5°	404.0	409.0	560.0	858.0	1532.1	1532.1	1621.1	1213.1	543.0	80.0	56.0
85°	215.0	227.0	302.0	463.0	772.0	830.0	735.0	463.0	105.0	44.0	34.0
87.5°	68.0	69.0	99.0	179.0	166.0	171.0	57.0	24.0	12.0	8.0	7.0
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°	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0	1066.0
2.5°	1064.0	1065.0	1071.0	1074.0	1075.0	1072.0	1079.0	1089.0	1086.0	1097.0	1093.0
5°	1064.0	1069.0	1077.0	1076.0	1084.0	1088.0	1096.0	1106.0	1103.0	1119.0	1113.0
7.5°	1072.0	1080.0	1086.0	1098.0	1104.0	1102.0	1120.0	1128.0	1124.0	1136.0	1130.0
10°	1092.0	1101.0	1109.0	1122.0	1131.0	1127.0	1137.0	1142.0	1135.0	1147.0	1144.0
12.5°	1115.0	1125.0	1141.0	1150.0	1157.1	1150.0	1150.0	1147.0	1137.0	1148.0	1141.0
15°	1141.0	1154.1	1176.1	1186.1	1184.1	1172.1	1161.1	1140.0	1113.0	1118.0	1108.0
17.5°	1176.1	1192.1	1217.1	1223.1	1215.1	1186.1	1157.1	1119.0	1071.0	1059.0	1051.0
20°	1214.1	1232.1	1267.1	1264.1	1246.1	1195.1	1149.0	1090.0	1015.0	981.0	965.0
22.5°	1266.1	1284.1	1317.1	1299.1	1262.1	1195.1	1117.0	1035.0	946.0	896.0	885.0
25°	1323.1	1348.1	1362.1	1322.1	1258.1	1168.1	1074.0	966.0	852.0	798.0	787.0
27.5°	1393.1	1410.1	1396.1	1325.1	1238.1	1123.0	1004.0	874.0	765.0	719.0	703.0
30°	1475.1	1477.1	1422.1	1319.1	1193.1	1059.0	918.0	781.0	697.0	654.0	644.0
32.5°	1584.1	1564.1	1445.1	1291.1	1132.0	971.0	822.0	719.0	649.0	595.0	581.0
35°	1868.1	1777.1	1496.1	1259.1	1058.0	873.0	739.0	663.0	604.0	543.0	532.0
37.5°	2236.1	2075.1	1586.1	1226.1	974.0	783.0	684.0	630.0	580.0	512.0	497.0
40°	2512.1	2326.1	1725.1	1190.1	897.0	719.0	654.0	617.0	562.0	500.0	484.0
42.5°	2723.1	2535.1	1868.1	1150.0	825.0	669.0	633.0	608.0	555.0	497.0	484.0
45°	2869.1	2681.1	1991.1	1103.0	733.0	626.0	617.0	593.0	542.0	486.0	473.0
47.5°	3017.1	2784.1	2060.1	1054.0	656.0	602.0	594.0	567.0	520.0	467.0	457.0
50°	3146.1	2901.1	2119.1	1004.0	595.0	573.0	568.0	532.0	487.0	437.0	424.0
52.5°	3183.1	2929.1	2095.1	1001.0	540.0	542.0	532.0	503.0	461.0	407.0	394.0
55°	3267.1	3007.1	2037.1	909.0	487.0	494.0	492.0	477.0	438.0	388.0	378.0
57.5°	3303.1	2948.1	1953.1	676.0	432.0	438.0	455.0	455.0	421.0	376.0	367.0
60°	3298.1	2950.1	1803.1	473.0	378.0	394.0	418.0	418.0	391.0	347.0	336.0
62.5°	3260.1	2874.1	1554.1	361.0	344.0	367.0	395.0	377.0	353.0	304.0	296.0
65°	3197.1	2665.1	1077.0	317.0	325.0	352.0	366.0	344.0	315.0	271.0	266.0
67.5°	2945.1	2315.1	501.0	290.0	309.0	330.0	342.0	311.0	281.0	241.0	235.0
70°	2507.1	1694.1	216.0	269.0	290.0	305.0	317.0	285.0	253.0	218.0	216.0
72.5°	1823.1	904.0	180.0	236.0	258.0	274.0	289.0	257.0	226.0	185.0	185.0
75°	878.0	150.0	155.0	196.0	216.0	248.0	255.0	210.0	175.0	141.0	138.0
77.5°	108.0	97.0	134.0	156.0	173.0	190.0	207.0	182.0	151.0	116.0	110.0
80°	68.0	68.0	106.0	109.0	118.0	136.0	152.0	142.0	119.0	67.0	62.0
82.5°	50.0	54.0	70.0	52.0	62.0	78.0	89.0	101.0	86.0	47.0	44.0
85°	32.0	35.0	33.0	26.0	34.0	52.0	71.0	70.0	58.0	35.0	33.0
87.5°	7.0	7.0	7.0	6.0	7.0	9.0	17.0	33.0	24.0	19.0	18.0
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)