

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: P507560

Luminaire Tested: **VERD-S-CA1-40-760-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-40-760-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 760mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5620 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

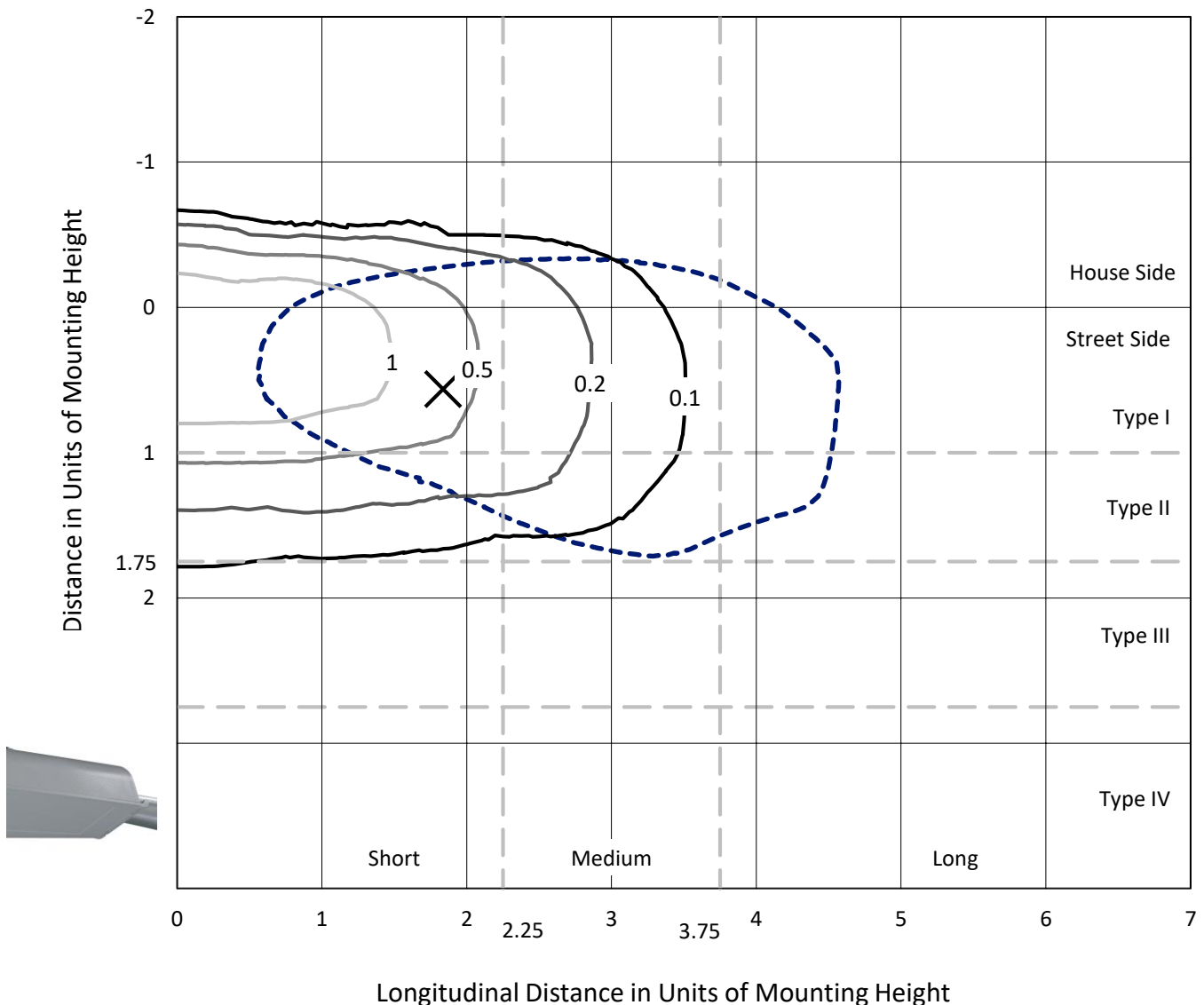
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

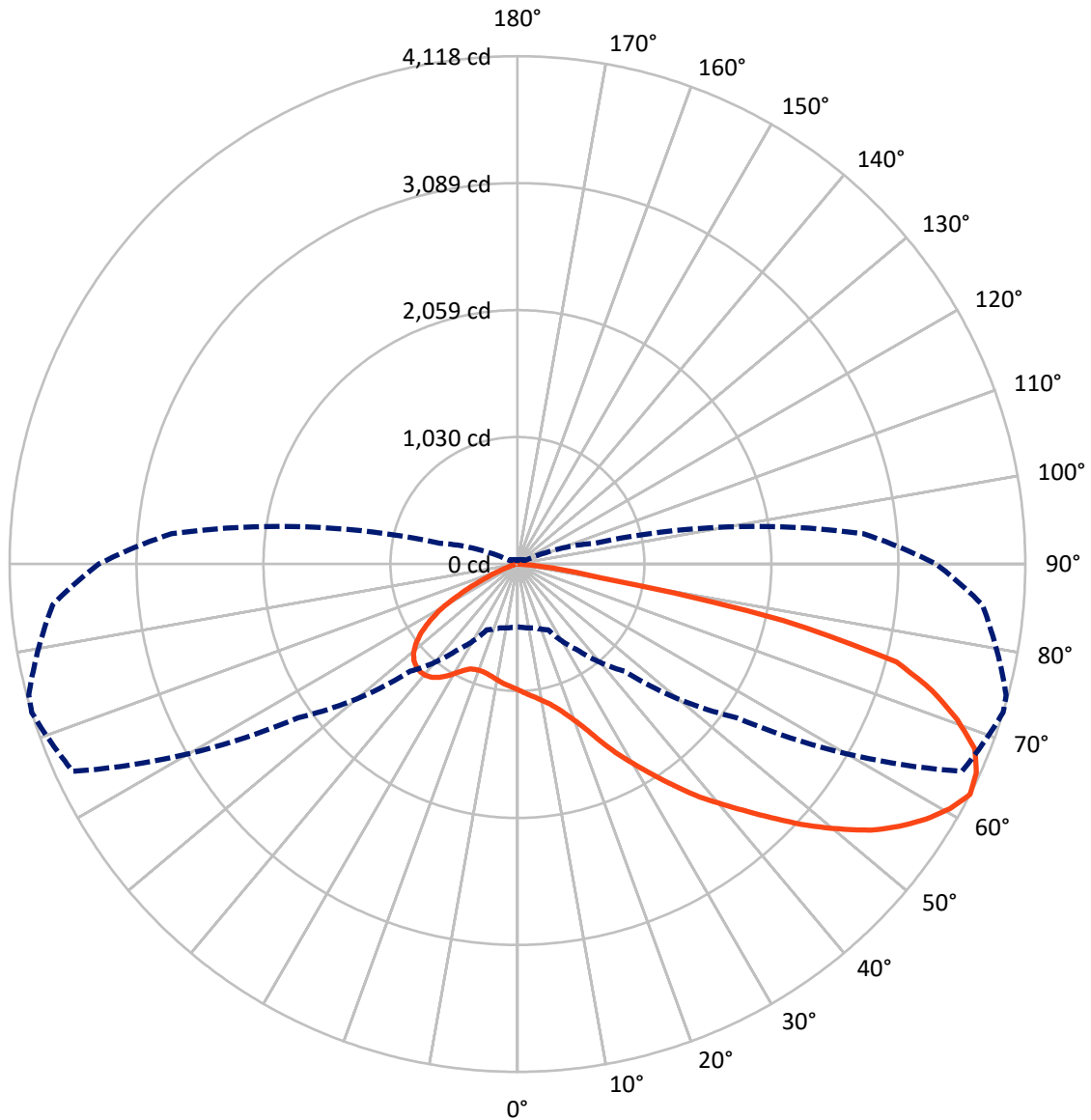
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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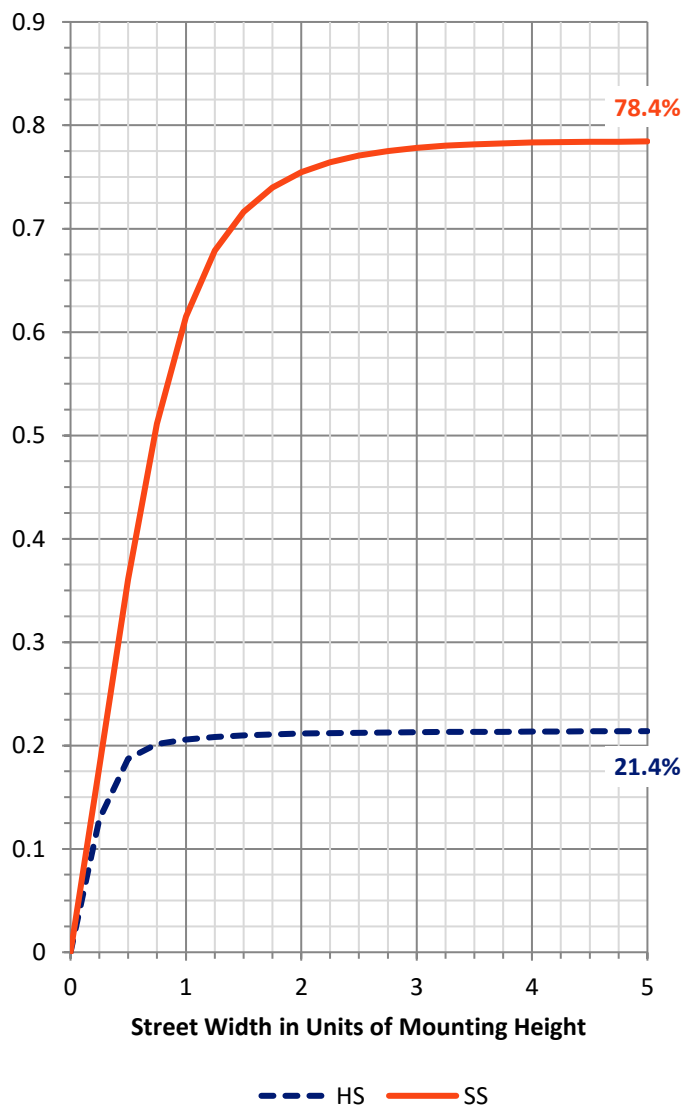
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1217.3	0.0	1217.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4402.7	0.0	4402.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	5620.0	0.0	5620.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.7
10°-20°	293.9	5.2
20°-30°	508.4	9.0
30°-40°	746.7	13.3
40°-50°	970.6	17.3
50°-60°	1125.3	20.0
60°-70°	1132.5	20.2
70°-80°	690.1	12.3
80°-90°	55.0	1.0
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°	5620.0	100.0
0°-180°	5620.0	100.0

Coefficient of Utilization



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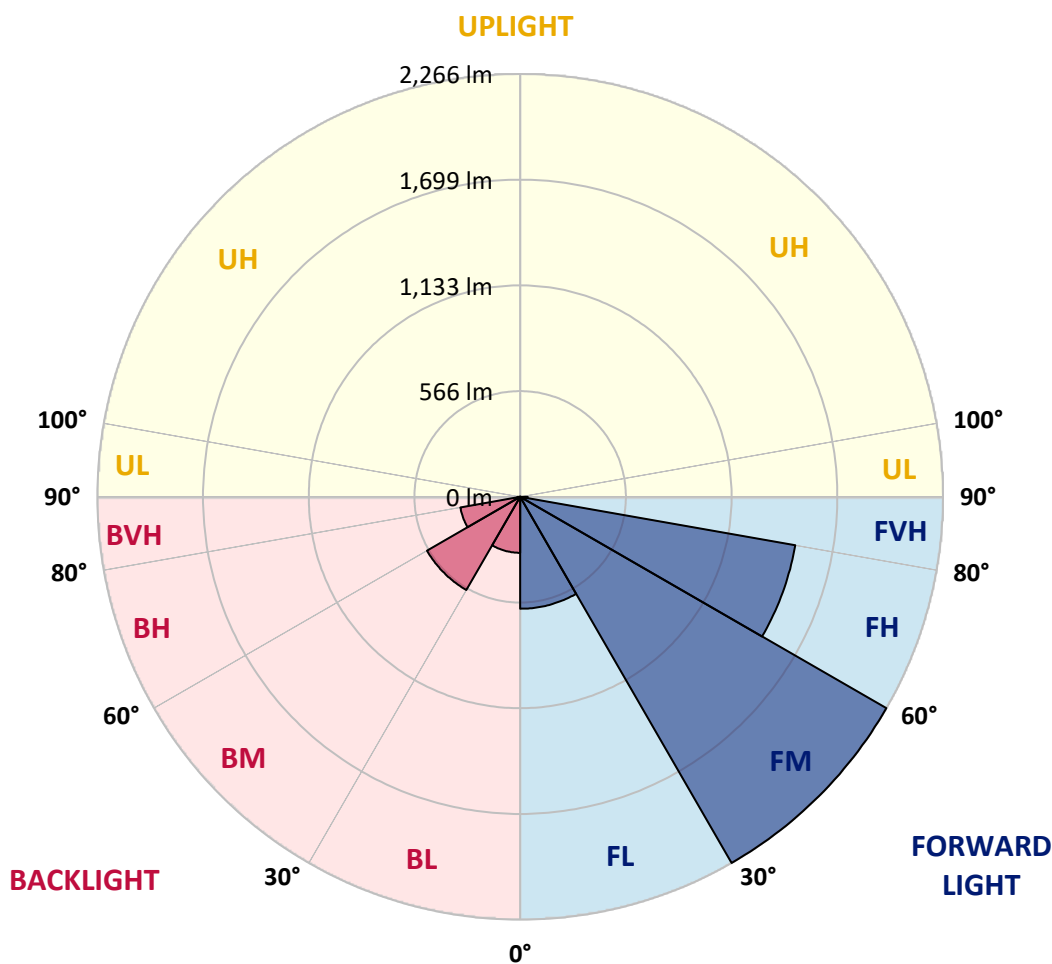
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	599.9	10.7			
FM (30°-60°)	2265.9	40.3			
FH (60°-80°)	1497.0	26.6			G1/1800
FVH (80°-90°)	39.9	0.7			G1/100
BL (0°-30°)	300.1	5.3	B1/500		
BM (30°-60°)	576.6	10.3	B1/1000		
BH (60°-80°)	325.5	5.8	B1/500		G1/500
BVH (80°-90°)	15.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1089.6	1089.6	1087.8	1086.1	1079.3	1072.4	1062.1	1053.5	1044.9	1041.5	1027.8
5°	1153.0	1153.0	1151.3	1144.5	1135.9	1123.9	1106.7	1084.4	1069.0	1067.2	1043.2
7.5°	1206.2	1204.5	1202.8	1199.4	1190.8	1175.3	1149.6	1120.4	1094.7	1087.8	1058.7
10°	1257.7	1259.4	1256.0	1247.4	1237.1	1218.2	1192.5	1158.2	1127.3	1117.0	1072.4
12.5°	1312.6	1310.9	1305.7	1295.5	1281.7	1266.3	1238.8	1204.5	1163.3	1153.0	1094.7
15°	1358.9	1360.7	1352.1	1345.2	1331.5	1314.3	1290.3	1256.0	1214.8	1202.8	1127.3
17.5°	1400.1	1400.1	1398.4	1395.0	1384.7	1372.7	1348.6	1324.6	1281.7	1262.9	1177.1
20°	1431.0	1432.7	1436.2	1443.0	1444.7	1434.4	1422.4	1405.3	1364.1	1345.2	1238.8
22.5°	1458.5	1461.9	1475.6	1496.2	1513.4	1513.4	1511.6	1509.9	1468.8	1456.7	1329.8
25°	1465.3	1470.5	1501.4	1546.0	1573.4	1595.7	1626.6	1638.6	1607.7	1587.1	1448.2
27.5°	1475.6	1480.8	1515.1	1568.3	1636.9	1686.7	1741.6	1772.5	1750.1	1729.6	1583.7
30°	1467.0	1473.9	1511.6	1587.1	1678.1	1782.7	1851.4	1897.7	1890.8	1878.8	1724.4
32.5°	1444.7	1451.6	1496.2	1588.9	1727.8	1880.6	1957.8	2029.8	2048.7	2038.4	1872.0
35°	1400.1	1407.0	1461.9	1575.1	1751.9	1954.3	2064.1	2170.5	2213.4	2206.6	2033.3
37.5°	1343.5	1343.5	1408.7	1534.0	1760.4	2011.0	2158.5	2311.2	2395.3	2385.0	2196.3
40°	1249.1	1266.3	1346.9	1489.3	1746.7	2052.1	2249.5	2457.1	2561.7	2556.6	2373.0
42.5°	1154.8	1168.5	1245.7	1412.1	1714.1	2076.2	2325.0	2609.8	2745.3	2741.9	2542.9
45°	1070.7	1081.0	1144.5	1305.7	1645.5	2083.0	2397.0	2772.8	2947.8	2940.9	2716.2
47.5°	962.6	983.2	1063.8	1206.2	1551.1	2062.4	2463.9	2977.0	3167.4	3160.6	2903.2
50°	729.2	743.0	911.1	1125.6	1429.3	2011.0	2518.8	3177.7	3375.0	3361.3	3073.1
52.5°	662.3	670.9	724.1	1026.1	1316.0	1918.3	2553.2	3417.9	3586.1	3563.8	3248.1
55°	619.4	626.3	657.2	821.9	1216.5	1762.2	2563.5	3644.4	3756.0	3733.6	3409.4
57.5°	581.7	585.1	616.0	700.1	1098.1	1564.8	2527.4	3812.6	3905.2	3881.2	3548.3
60°	542.2	547.4	576.5	638.3	955.7	1383.0	2415.9	3946.4	4028.8	4008.2	3670.2
62.5°	509.6	516.5	535.3	588.5	852.8	1228.5	2172.2	3977.3	4118.0	4102.6	3783.4
65°	470.1	475.3	499.3	543.9	746.4	1132.4	1925.2	3886.4	4088.8	4107.7	3846.9
67.5°	423.8	429.0	449.5	483.9	626.3	1031.2	1709.0	3757.7	3999.6	4025.3	3800.6
70°	367.2	370.6	391.2	423.8	519.9	899.1	1482.5	3568.9	3783.4	3802.3	3617.0
72.5°	305.4	305.4	320.9	358.6	427.2	744.7	1189.1	3170.9	3519.2	3565.5	3306.4
75°	128.7	135.6	163.0	197.3	272.8	543.9	813.3	2441.6	3174.3	3213.8	2920.3
77.5°	25.7	27.5	30.9	46.3	72.1	236.8	252.2	1065.5	2203.1	2228.9	2132.8
80°	20.6	20.6	22.3	34.3	48.0	109.8	82.4	348.3	686.3	883.7	1139.3
82.5°	6.9	8.6	12.0	18.9	24.0	24.0	27.5	175.0	339.7	365.5	459.8
85°	3.4	3.4	5.1	6.9	6.9	6.9	6.9	30.9	58.3	70.3	97.8
87.5°	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.1	5.1	6.9
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°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1020.9	1015.8	1003.8	995.2	983.2	972.9	960.9	954.0	950.6	948.9	945.4
5°	1029.5	1015.8	991.8	966.0	943.7	926.5	902.5	890.5	883.7	880.2	878.5
7.5°	1039.8	1022.6	981.5	942.0	902.5	873.4	844.2	825.3	816.7	815.0	813.3
10°	1046.7	1019.2	964.3	921.4	869.9	823.6	789.3	767.0	755.0	753.2	751.5
12.5°	1060.4	1024.4	950.6	888.8	835.6	775.6	739.5	713.8	701.8	691.5	691.5
15°	1082.7	1036.4	943.7	861.3	791.0	732.7	686.3	658.9	650.3	636.6	633.1
17.5°	1120.4	1058.7	938.6	833.9	749.8	691.5	636.6	607.4	602.3	590.2	583.4
20°	1166.8	1091.3	942.0	808.2	706.9	640.0	585.1	555.9	538.8	528.5	525.0
22.5°	1240.5	1139.3	954.0	789.3	669.2	593.7	535.3	489.0	451.3	437.5	437.5
25°	1345.2	1221.7	974.6	773.8	631.4	549.1	477.0	398.1	348.3	329.4	324.3
27.5°	1463.6	1326.3	1022.6	760.1	600.5	499.3	392.9	305.4	252.2	235.1	235.1
30°	1599.2	1436.2	1081.0	751.5	562.8	423.8	296.8	223.1	180.2	161.3	159.6
32.5°	1733.0	1549.4	1149.6	744.7	523.3	331.2	214.5	163.0	127.0	113.2	115.0
35°	1866.8	1660.9	1207.9	744.7	458.1	238.5	152.7	113.2	90.9	84.1	84.1
37.5°	2017.8	1786.2	1254.3	734.4	360.3	169.9	104.7	82.4	75.5	72.1	72.1
40°	2174.0	1902.9	1285.2	712.1	257.4	116.7	73.8	72.1	68.6	63.5	61.8
42.5°	2319.8	2036.7	1304.0	669.2	168.2	77.2	65.2	66.9	65.2	56.6	54.9
45°	2474.2	2144.8	1314.3	583.4	111.5	63.5	58.3	61.8	63.5	56.6	54.9
47.5°	2628.7	2263.2	1321.2	454.7	73.8	61.8	54.9	60.1	61.8	54.9	53.2
50°	2791.7	2371.3	1310.9	291.7	65.2	58.3	53.2	54.9	58.3	54.9	53.2
52.5°	2934.1	2469.1	1262.9	163.0	63.5	56.6	49.8	51.5	56.6	53.2	53.2
55°	3079.9	2565.2	1173.6	96.1	61.8	53.2	49.8	51.5	53.2	49.8	51.5
57.5°	3212.0	2657.8	1039.8	78.9	61.8	51.5	51.5	48.0	48.0	44.6	44.6
60°	3313.3	2741.9	880.2	73.8	58.3	53.2	48.0	44.6	41.2	37.7	37.7
62.5°	3393.9	2814.0	653.7	68.6	56.6	51.5	44.6	39.5	34.3	30.9	30.9
65°	3438.5	2829.4	461.6	61.8	53.2	49.8	41.2	34.3	27.5	25.7	25.7
67.5°	3387.1	2748.8	281.4	58.3	49.8	48.0	39.5	30.9	24.0	22.3	22.3
70°	3189.7	2532.6	157.9	53.2	44.6	42.9	36.0	27.5	22.3	18.9	18.9
72.5°	2863.7	2215.1	78.9	44.6	37.7	37.7	32.6	24.0	20.6	17.2	17.2
75°	2419.3	1817.1	56.6	32.6	30.9	30.9	27.5	22.3	18.9	15.4	15.4
77.5°	1772.5	1197.7	46.3	27.5	22.3	22.3	24.0	20.6	17.2	13.7	13.7
80°	918.0	593.7	39.5	20.6	18.9	17.2	17.2	17.2	13.7	12.0	12.0
82.5°	406.7	228.2	25.7	15.4	15.4	13.7	13.7	13.7	12.0	10.3	10.3
85°	78.9	42.9	13.7	12.0	10.3	10.3	10.3	8.6	8.6	8.6	8.6
87.5°	6.9	6.9	6.9	6.9	6.9	5.1	5.1	5.1	5.1	5.1	5.1
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)