

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: P507544

Luminaire Tested: **VERD-S-CA1-40-740-U-T2-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507544
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-CA1-40-740-U-T2-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 760mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5638 lumens
Efficiency: N/A
Efficacy: 129.9 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

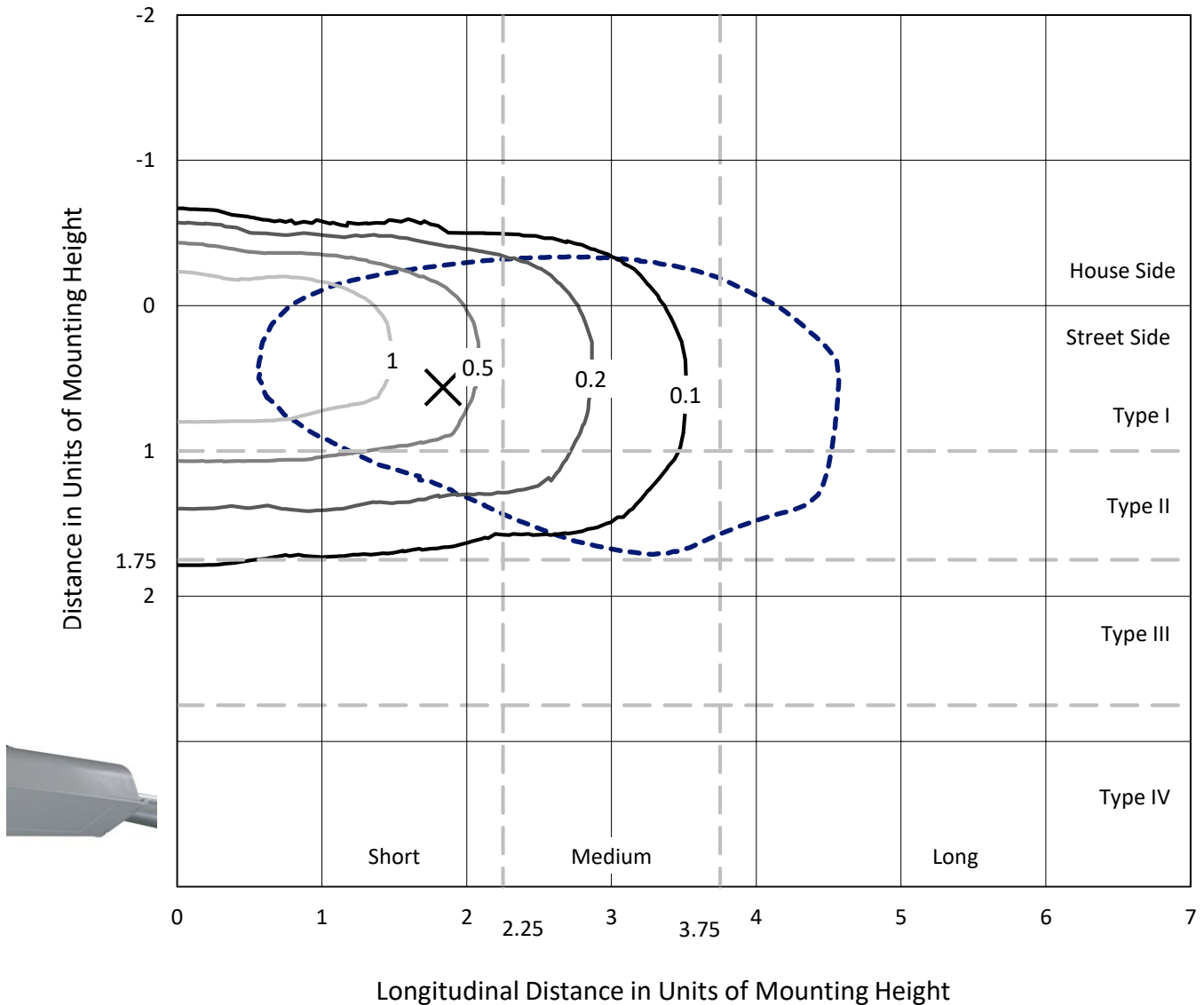
Input Watts (W): 43.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

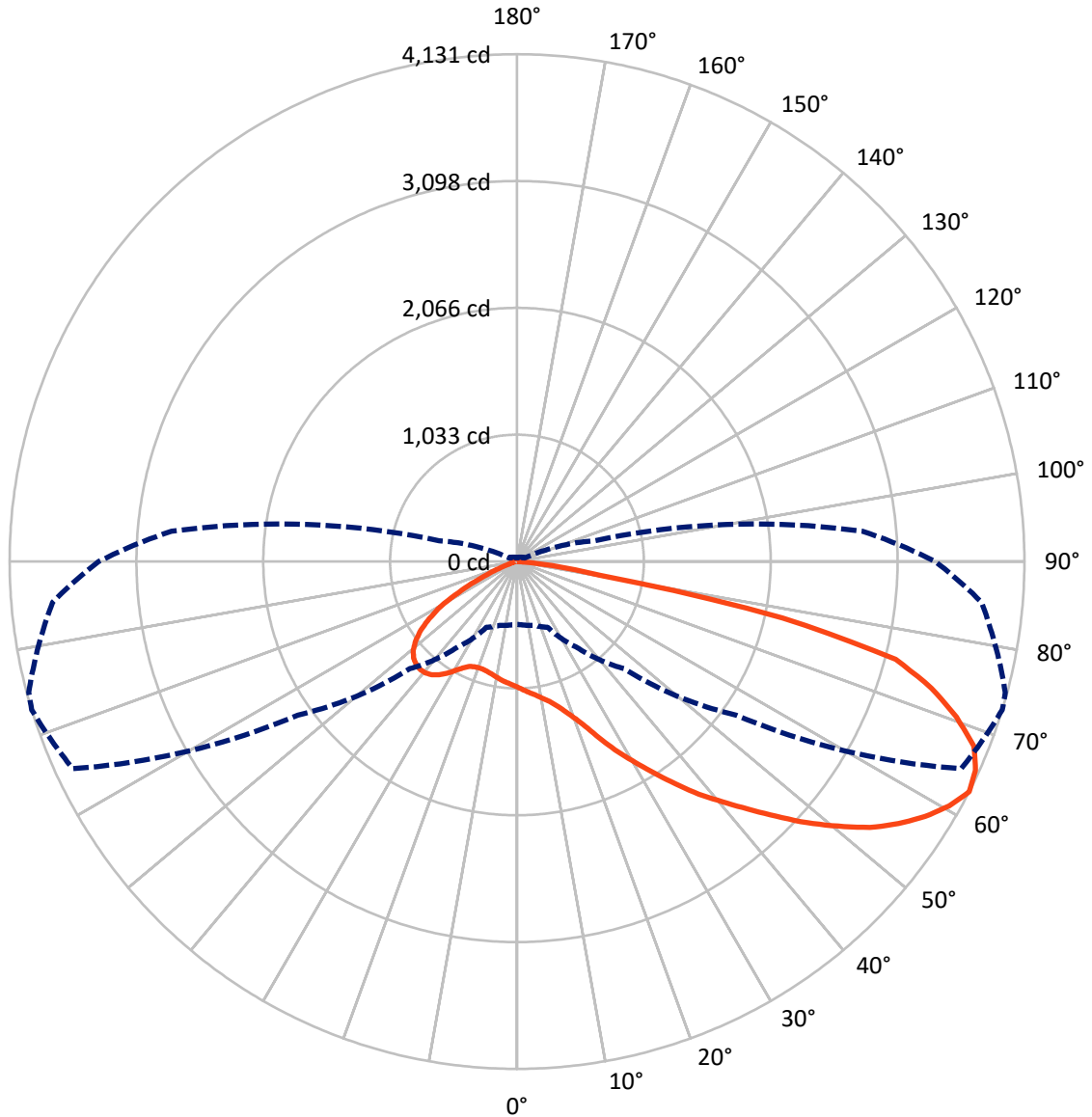
✕ Max cd
 - - - 1/2 Max cd



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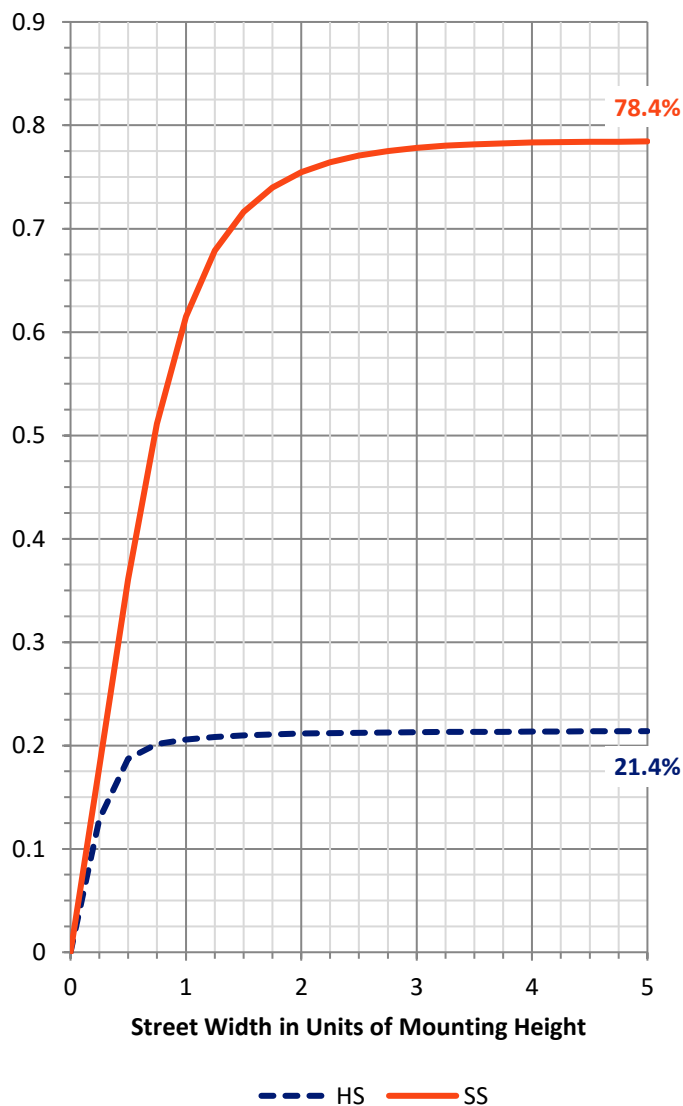
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1221.2	0.0	1221.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4416.8	0.0	4416.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	5638.0	0.0	5638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	1.7
10°-20°	294.9	5.2
20°-30°	510.0	9.0
30°-40°	749.1	13.3
40°-50°	973.7	17.3
50°-60°	1128.9	20.0
60°-70°	1136.1	20.2
70°-80°	692.3	12.3
80°-90°	55.1	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°	5638.0	100.0
0°-180°	5638.0	100.0

Coefficient of Utilization



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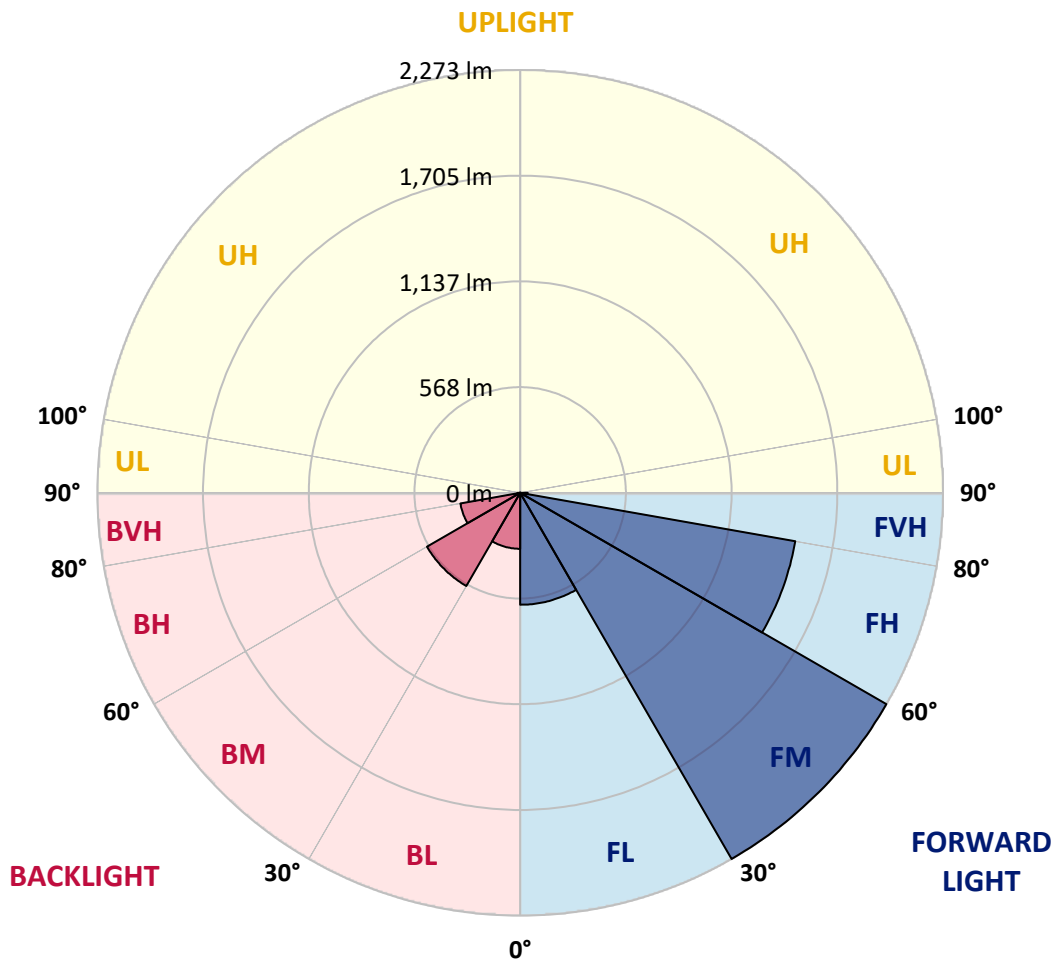
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	601.8	10.7			
FM (30°-60°)	2273.1	40.3			
FH (60°-80°)	1501.8	26.6			G1/1800
FVH (80°-90°)	40.1	0.7			G1/100
BL (0°-30°)	301.1	5.3	B1/500		
BM (30°-60°)	578.5	10.3	B1/1000		
BH (60°-80°)	326.6	5.8	B1/500		G1/500
BVH (80°-90°)	15.1	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°	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	1093.0	1093.0	1091.3	1089.6	1082.7	1075.8	1065.5	1056.9	1048.3	1044.8	1031.1
5°	1156.7	1156.7	1155.0	1148.1	1139.5	1127.5	1110.3	1087.9	1072.4	1070.7	1046.6
7.5°	1210.1	1208.4	1206.7	1203.2	1194.6	1179.1	1153.3	1124.0	1098.2	1091.3	1062.1
10°	1261.7	1263.5	1260.0	1251.4	1241.1	1222.1	1196.3	1161.9	1130.9	1120.6	1075.8
12.5°	1316.8	1315.1	1309.9	1299.6	1285.8	1270.3	1242.8	1208.4	1167.1	1156.7	1098.2
15°	1363.3	1365.0	1356.4	1349.5	1335.7	1318.5	1294.4	1260.0	1218.7	1206.7	1130.9
17.5°	1404.6	1404.6	1402.9	1399.4	1389.1	1377.1	1353.0	1328.9	1285.8	1266.9	1180.8
20°	1435.6	1437.3	1440.8	1447.6	1449.4	1439.0	1427.0	1409.8	1368.5	1349.5	1242.8
22.5°	1463.1	1466.6	1480.3	1501.0	1518.2	1518.2	1516.5	1514.8	1473.5	1461.4	1334.0
25°	1470.0	1475.2	1506.2	1550.9	1578.5	1600.8	1631.8	1643.9	1612.9	1592.2	1452.8
27.5°	1480.3	1485.5	1519.9	1573.3	1642.1	1692.1	1747.1	1778.1	1755.8	1735.1	1588.8
30°	1471.7	1478.6	1516.5	1592.2	1683.5	1788.5	1857.3	1903.8	1896.9	1884.9	1729.9
32.5°	1449.4	1456.2	1501.0	1593.9	1733.4	1886.6	1964.0	2036.3	2055.3	2044.9	1878.0
35°	1404.6	1411.5	1466.6	1580.2	1757.5	1960.6	2070.8	2177.5	2220.5	2213.6	2039.8
37.5°	1347.8	1347.8	1413.2	1538.9	1766.1	2017.4	2165.4	2318.6	2403.0	2392.6	2203.3
40°	1253.1	1270.3	1351.2	1494.1	1752.3	2058.7	2256.7	2464.9	2569.9	2564.8	2380.6
42.5°	1158.5	1172.2	1249.7	1416.7	1719.6	2082.8	2332.4	2618.1	2754.1	2750.7	2551.0
45°	1074.1	1084.4	1148.1	1309.9	1650.8	2089.7	2404.7	2781.7	2957.2	2950.4	2724.9
47.5°	965.7	986.3	1067.2	1210.1	1556.1	2069.0	2471.8	2986.5	3177.6	3170.7	2912.5
50°	731.6	745.3	914.0	1129.2	1433.9	2017.4	2526.9	3187.9	3385.8	3372.1	3082.9
52.5°	664.4	673.0	726.4	1029.4	1320.3	1924.4	2561.3	3428.9	3597.6	3575.2	3258.5
55°	621.4	628.3	659.3	824.5	1220.4	1767.8	2571.7	3656.1	3768.0	3745.6	3420.3
57.5°	583.5	587.0	618.0	702.3	1101.6	1569.9	2535.5	3824.8	3917.7	3893.6	3559.7
60°	543.9	549.1	578.4	640.3	958.8	1387.4	2423.6	3959.1	4041.7	4021.0	3681.9
62.5°	511.2	518.1	537.1	590.4	855.5	1232.5	2179.2	3990.0	4131.2	4115.7	3795.5
65°	471.6	476.8	500.9	545.7	748.8	1136.1	1931.3	3898.8	4101.9	4120.9	3859.2
67.5°	425.2	430.3	451.0	485.4	628.3	1034.5	1714.4	3769.7	4012.4	4038.2	3812.7
70°	368.4	371.8	392.5	425.2	521.6	902.0	1487.2	3580.4	3795.5	3814.5	3628.6
72.5°	306.4	306.4	321.9	359.8	428.6	747.1	1192.9	3181.0	3530.4	3576.9	3317.0
75°	129.1	136.0	163.5	198.0	273.7	545.7	815.9	2449.4	3184.5	3224.0	2929.7
77.5°	25.8	27.5	31.0	46.5	72.3	237.5	253.0	1068.9	2210.2	2236.0	2139.6
80°	20.7	20.7	22.4	34.4	48.2	110.2	82.6	349.4	688.5	886.5	1143.0
82.5°	6.9	8.6	12.0	18.9	24.1	24.1	27.5	175.6	340.8	366.6	461.3
85°	3.4	3.4	5.2	6.9	6.9	6.9	6.9	31.0	58.5	70.6	98.1
87.5°	1.7	0.0	0.0	0.0	0.0	0.0	1.7	3.4	5.2	5.2	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°	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2	1024.2
2.5°	1024.2	1019.0	1007.0	998.4	986.3	976.0	963.9	957.1	953.6	951.9	948.5
5°	1032.8	1019.0	994.9	969.1	946.7	929.5	905.4	893.4	886.5	883.0	881.3
7.5°	1043.1	1025.9	984.6	945.0	905.4	876.2	846.9	828.0	819.4	817.6	815.9
10°	1050.0	1022.5	967.4	924.4	872.7	826.2	791.8	769.4	757.4	755.7	753.9
12.5°	1063.8	1027.6	953.6	891.6	838.3	778.0	741.9	716.1	704.0	693.7	693.7
15°	1086.2	1039.7	946.7	864.1	793.5	735.0	688.5	661.0	652.4	638.6	635.2
17.5°	1124.0	1062.1	941.6	836.6	752.2	693.7	638.6	609.3	604.2	592.1	585.3
20°	1170.5	1094.8	945.0	810.7	709.2	642.1	587.0	557.7	540.5	530.2	526.7
22.5°	1244.5	1143.0	957.1	791.8	671.3	595.6	537.1	490.6	452.7	438.9	438.9
25°	1349.5	1225.6	977.7	776.3	633.4	550.8	478.5	399.3	349.4	330.5	325.3
27.5°	1468.3	1330.6	1025.9	762.5	602.5	500.9	394.2	306.4	253.0	235.8	235.8
30°	1604.3	1440.8	1084.4	753.9	564.6	425.2	297.8	223.8	180.7	161.8	160.1
32.5°	1738.5	1554.4	1153.3	747.1	525.0	332.2	215.2	163.5	127.4	113.6	115.3
35°	1872.8	1666.2	1211.8	747.1	459.6	239.3	153.2	113.6	91.2	84.3	84.3
37.5°	2024.3	1791.9	1258.3	736.7	361.5	170.4	105.0	82.6	75.7	72.3	72.3
40°	2180.9	1909.0	1289.3	714.4	258.2	117.1	74.0	72.3	68.9	63.7	62.0
42.5°	2327.2	2043.2	1308.2	671.3	168.7	77.5	65.4	67.1	65.4	56.8	55.1
45°	2482.2	2151.7	1318.5	585.3	111.9	63.7	58.5	62.0	63.7	56.8	55.1
47.5°	2637.1	2270.4	1325.4	456.2	74.0	62.0	55.1	60.2	62.0	55.1	53.4
50°	2800.6	2378.9	1315.1	292.6	65.4	58.5	53.4	55.1	58.5	55.1	53.4
52.5°	2943.5	2477.0	1266.9	163.5	63.7	56.8	49.9	51.6	56.8	53.4	53.4
55°	3089.8	2573.4	1177.4	96.4	62.0	53.4	49.9	51.6	53.4	49.9	51.6
57.5°	3222.3	2666.3	1043.1	79.2	62.0	51.6	51.6	48.2	48.2	44.8	44.8
60°	3323.9	2750.7	883.0	74.0	58.5	53.4	48.2	44.8	41.3	37.9	37.9
62.5°	3404.8	2823.0	655.8	68.9	56.8	51.6	44.8	39.6	34.4	31.0	31.0
65°	3449.5	2838.5	463.0	62.0	53.4	49.9	41.3	34.4	27.5	25.8	25.8
67.5°	3397.9	2757.6	282.3	58.5	49.9	48.2	39.6	31.0	24.1	22.4	22.4
70°	3199.9	2540.7	158.4	53.4	44.8	43.0	36.1	27.5	22.4	18.9	18.9
72.5°	2872.9	2222.2	79.2	44.8	37.9	37.9	32.7	24.1	20.7	17.2	17.2
75°	2427.1	1822.9	56.8	32.7	31.0	31.0	27.5	22.4	18.9	15.5	15.5
77.5°	1778.1	1201.5	46.5	27.5	22.4	22.4	24.1	20.7	17.2	13.8	13.8
80°	920.9	595.6	39.6	20.7	18.9	17.2	17.2	17.2	13.8	12.0	12.0
82.5°	408.0	228.9	25.8	15.5	15.5	13.8	13.8	13.8	12.0	10.3	10.3
85°	79.2	43.0	13.8	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	5.2	5.2	5.2	5.2	5.2	5.2
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)