

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: P509302

Luminaire Tested: **VERD-CA2-70-727-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509302
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-CA2-70-727-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 980mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8342 lumens
Efficiency: N/A
Efficacy: 113.3 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

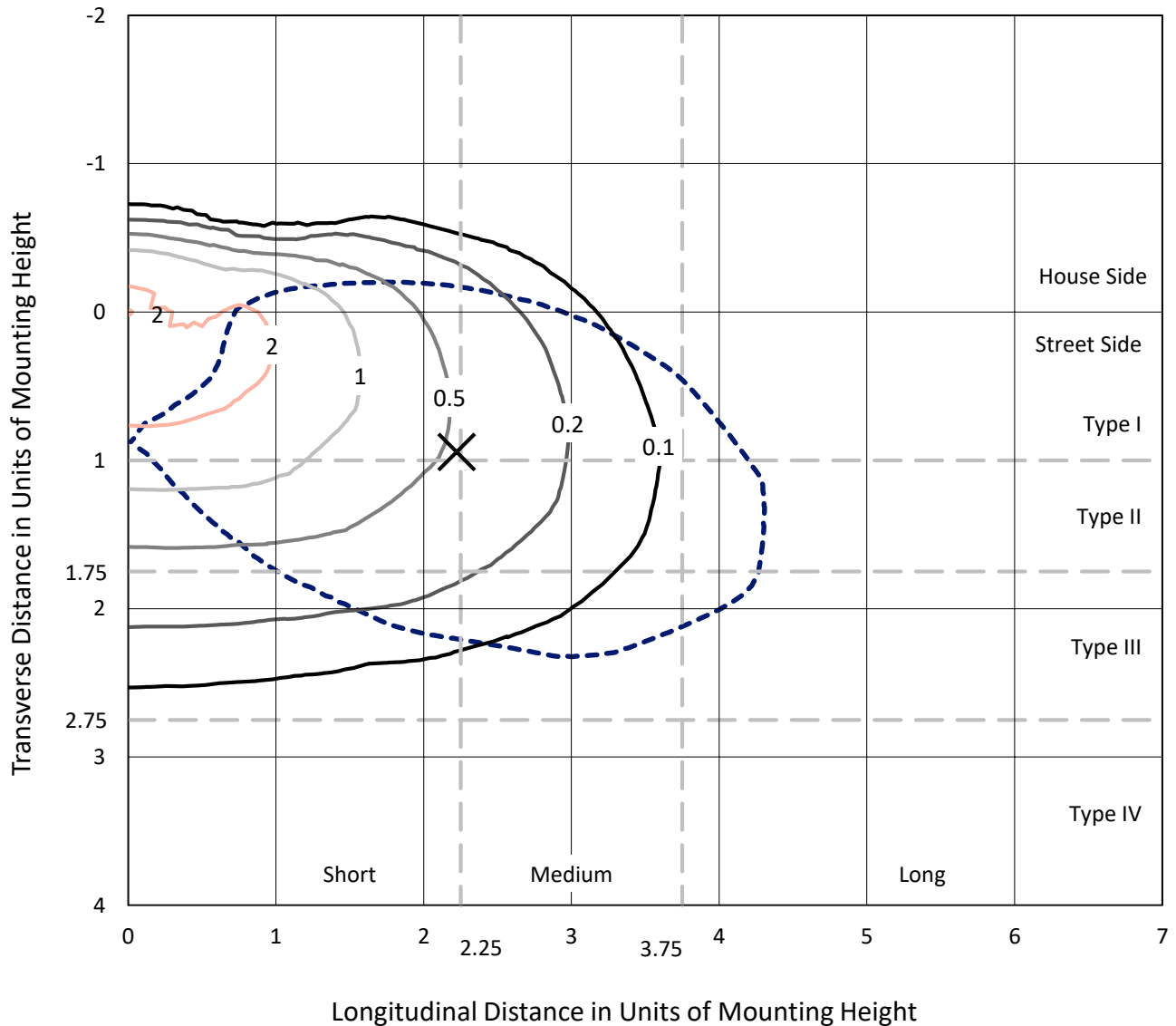
Input Watts (W): 73.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

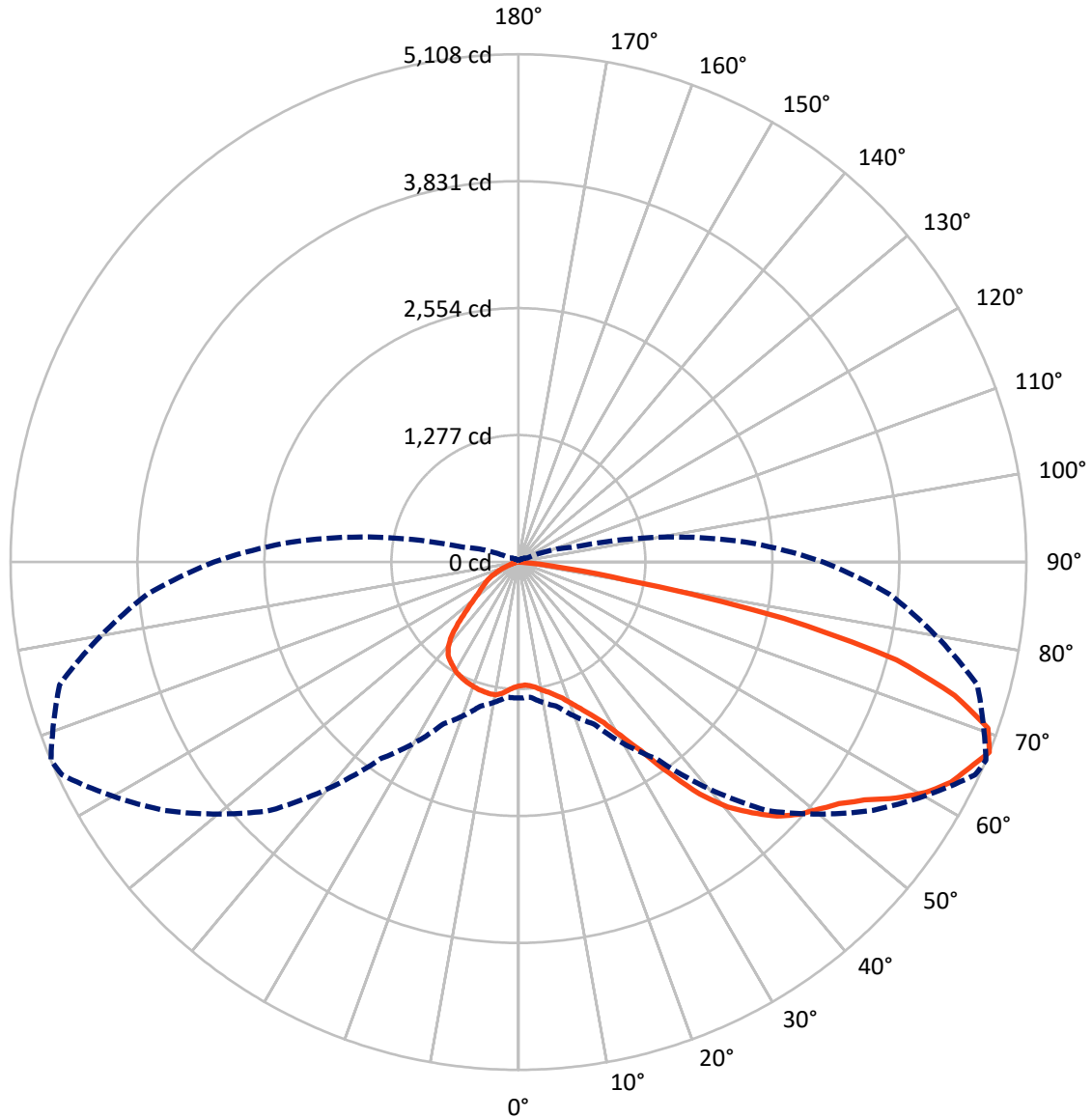
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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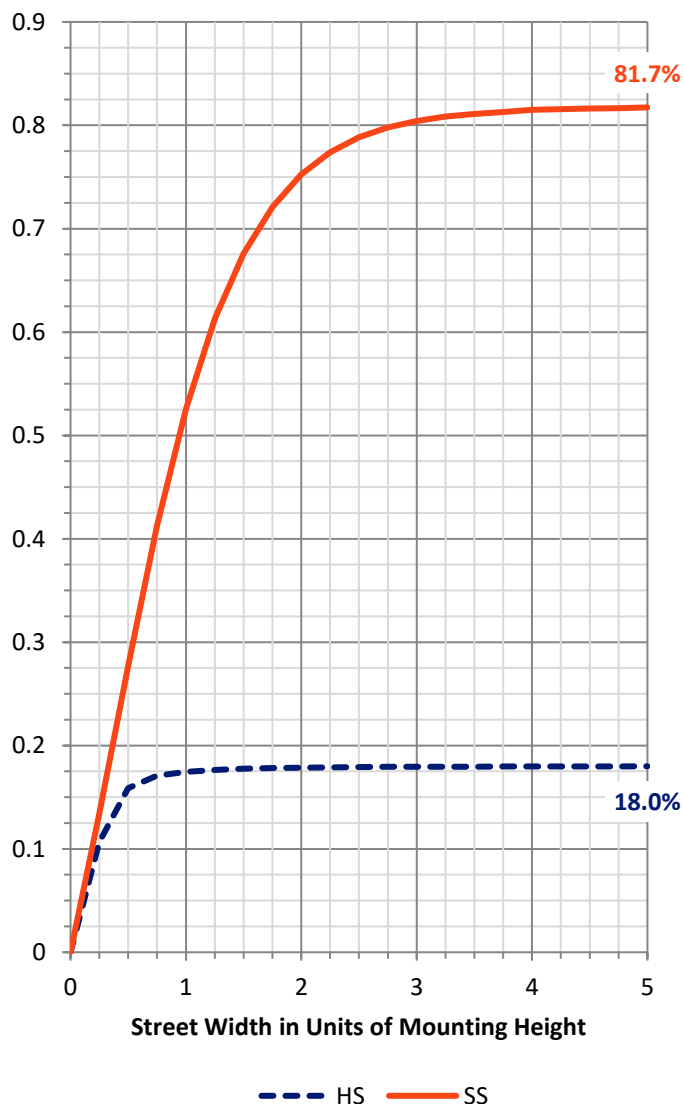
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1520.0	0.0	1520.0
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	6822.0	0.0	6822.0
	% Fixture	81.8	0.0	81.8
Total	Lumens	8342.0	0.0	8342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	1.5
10°-20°	390.8	4.7
20°-30°	666.9	8.0
30°-40°	1038.0	12.4
40°-50°	1465.3	17.6
50°-60°	1764.9	21.2
60°-70°	1823.9	21.9
70°-80°	1004.7	12.0
80°-90°	62.6	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°	8342.0	100.0
0°-180°	8342.0	100.0

Coefficient of Utilization



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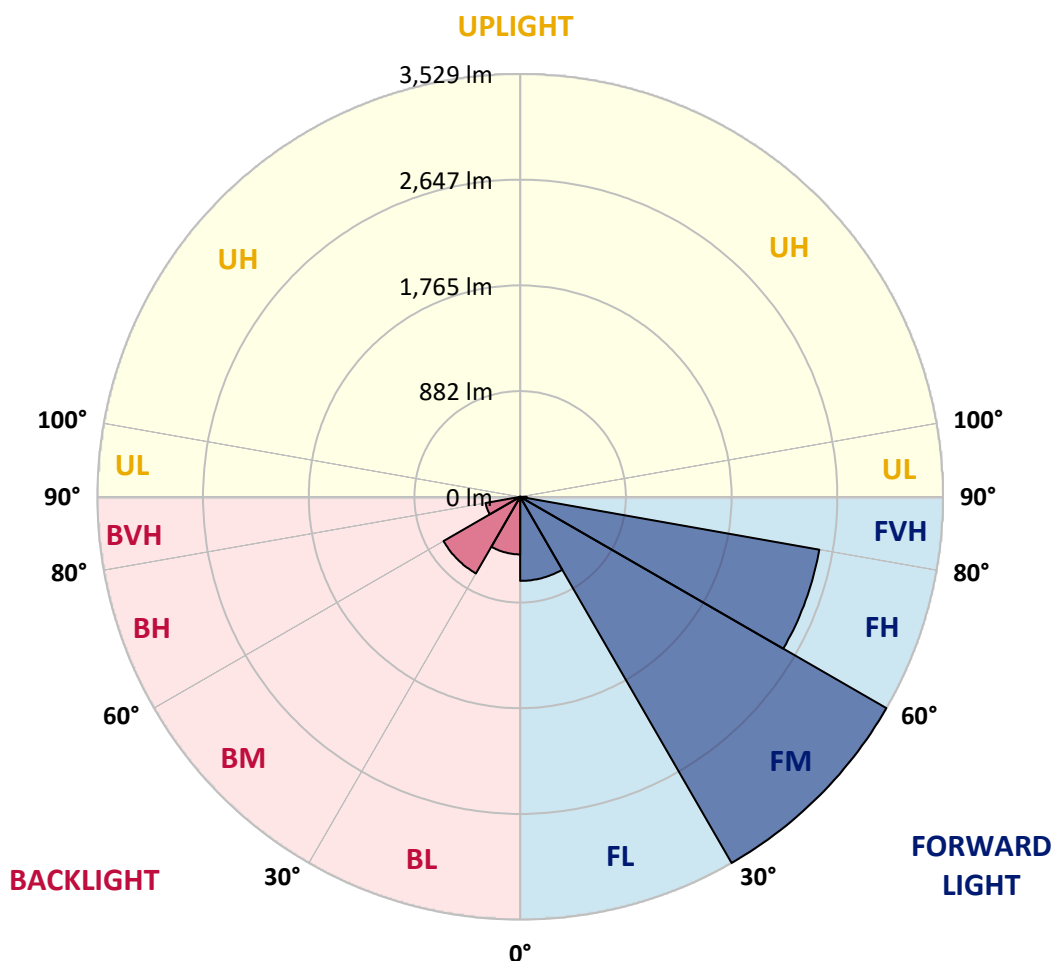
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.9	8.4			
FM	(30°-60°)	3529.4	42.3			
FH	(60°-80°)	2535.7	30.4			G2/5000
FVH	(80°-90°)	55.1	0.7			G1/100
BL	(0°-30°)	480.6	5.8	B1/500		
BM	(30°-60°)	738.9	8.9	B1/1000		
BH	(60°-80°)	293.0	3.5	B1/500		G1/500
BVH	(80°-90°)	7.5	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°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1234.0	1246.5	1246.5	1242.7	1244.6	1235.9	1230.1	1236.9	1238.8	1244.6	1252.3
5°	1258.1	1272.6	1271.6	1264.9	1259.1	1251.3	1243.6	1249.4	1250.4	1252.3	1262.0
7.5°	1309.3	1322.8	1317.0	1310.2	1307.4	1290.0	1273.6	1272.6	1274.5	1280.3	1290.9
10°	1375.9	1386.5	1384.6	1374.0	1366.2	1340.2	1317.0	1308.3	1309.3	1311.2	1329.6
12.5°	1451.2	1465.7	1455.1	1440.6	1427.1	1389.4	1357.6	1345.0	1343.1	1347.9	1363.4
15°	1525.6	1541.0	1533.3	1524.6	1493.7	1452.2	1411.6	1391.4	1389.4	1389.4	1399.1
17.5°	1623.1	1628.9	1624.0	1611.5	1576.7	1524.6	1476.3	1446.4	1441.6	1444.5	1446.4
20°	1731.2	1741.8	1736.1	1722.5	1672.3	1616.3	1555.5	1519.8	1516.9	1519.8	1501.4
22.5°	1862.5	1866.4	1863.5	1841.3	1795.9	1721.6	1641.4	1600.9	1600.9	1603.8	1566.1
25°	1974.5	1997.7	1991.0	1963.9	1910.8	1846.1	1749.6	1699.4	1702.3	1704.2	1652.1
27.5°	2104.9	2124.2	2119.4	2099.1	2064.3	1982.3	1866.4	1833.6	1830.7	1827.8	1746.7
30°	2229.4	2243.9	2253.6	2248.8	2220.8	2143.5	2040.2	2016.1	2023.8	2018.0	1878.0
32.5°	2330.8	2355.9	2383.0	2388.8	2381.0	2312.5	2237.2	2249.7	2259.4	2327.9	2243.9
35°	2417.7	2444.8	2489.2	2535.5	2544.2	2517.2	2479.5	2571.3	2599.3	2739.3	2650.4
37.5°	2508.5	2531.7	2576.1	2649.5	2697.7	2712.2	2748.9	2893.7	2961.3	3082.0	2916.9
40°	2550.0	2573.2	2650.4	2743.1	2843.5	2924.6	2998.0	3166.0	3241.3	3278.0	3063.7
42.5°	2508.5	2530.7	2655.3	2830.0	2966.2	3145.8	3228.8	3396.8	3447.0	3443.1	3244.2
45°	2467.9	2489.2	2619.5	2852.2	3077.2	3349.5	3420.0	3608.2	3644.9	3598.6	3348.5
47.5°	2415.8	2444.8	2579.9	2838.7	3176.6	3533.9	3598.6	3758.9	3791.7	3723.1	3468.2
50°	2352.1	2377.2	2534.6	2817.5	3242.3	3672.0	3740.5	3899.8	3908.5	3844.8	3576.4
52.5°	2278.7	2292.2	2463.1	2775.0	3299.3	3773.4	3851.6	4018.6	4038.9	4021.5	3704.8
55°	2169.6	2193.7	2377.2	2708.4	3303.1	3826.5	3937.5	4186.6	4223.3	4182.7	3783.0
57.5°	2054.7	2080.8	2271.0	2615.7	3246.2	3860.3	4093.9	4404.8	4477.2	4346.9	3846.7
60°	1928.2	1951.4	2138.7	2478.6	3144.8	3908.5	4255.2	4660.7	4706.1	4486.9	3889.2
62.5°	1781.4	1799.8	1978.4	2312.5	2989.3	3896.0	4394.2	4866.4	4880.8	4612.4	3885.4
65°	1602.8	1601.8	1767.9	2080.8	2734.4	3795.6	4419.3	4969.7	4987.0	4693.5	3850.6
67.5°	1367.2	1364.3	1503.4	1797.8	2412.9	3533.9	4352.7	5066.2	5107.7	4778.5	3749.2
70°	1071.8	1075.6	1180.9	1443.5	1958.1	3135.1	4177.0	5001.5	5010.2	4615.3	3486.6
72.5°	758.0	756.0	827.5	1005.1	1447.4	2447.7	3671.0	4560.3	4587.3	4211.7	3037.6
75°	347.6	362.1	540.7	614.1	873.8	1666.5	3020.2	3874.7	3926.9	3625.6	2368.5
77.5°	64.7	66.6	115.9	233.7	341.8	601.5	1804.6	2624.4	2733.5	2470.8	1334.4
80°	51.2	52.1	68.6	112.0	142.9	270.4	593.8	1081.4	1105.6	963.6	480.8
82.5°	37.7	38.6	51.2	72.4	66.6	116.8	247.2	314.8	334.1	310.9	191.2
85°	22.2	23.2	29.9	35.7	34.8	46.3	41.5	37.7	33.8	28.0	24.1
87.5°	5.8	7.7	12.6	12.6	9.7	8.7	7.7	6.8	7.7	6.8	6.8
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°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1254.2	1253.3	1256.2	1263.9	1270.7	1271.6	1281.3	1293.8	1288.0	1304.5	1298.7
5°	1267.8	1270.7	1281.3	1293.8	1305.4	1315.1	1329.6	1350.8	1344.0	1359.5	1353.7
7.5°	1298.7	1303.5	1319.9	1332.5	1346.0	1343.1	1355.6	1368.2	1352.7	1369.1	1361.4
10°	1335.4	1341.1	1350.8	1355.6	1351.8	1349.8	1346.9	1345.0	1324.7	1336.3	1331.5
12.5°	1368.2	1369.1	1366.2	1353.7	1345.0	1321.8	1311.2	1306.4	1275.5	1284.2	1278.4
15°	1400.0	1386.5	1372.0	1343.1	1318.9	1283.2	1260.0	1239.8	1210.8	1222.4	1210.8
17.5°	1434.8	1414.5	1376.9	1334.4	1285.1	1233.0	1195.3	1162.5	1119.1	1117.1	1113.3
20°	1479.2	1449.3	1388.5	1318.9	1248.5	1170.2	1110.4	1055.3	989.7	981.0	963.6
22.5°	1535.2	1490.8	1405.8	1298.7	1203.1	1104.6	1003.2	912.4	829.4	803.3	793.7
25°	1599.9	1544.9	1415.5	1280.3	1159.6	1009.0	870.9	753.1	655.6	627.6	619.9
27.5°	1681.0	1613.4	1430.0	1253.3	1090.1	892.2	712.6	582.2	495.3	449.9	443.2
30°	1793.0	1689.7	1450.3	1226.2	1006.1	755.1	552.3	400.7	318.6	291.6	286.8
32.5°	2098.1	1871.2	1472.5	1178.0	895.1	602.5	366.9	255.9	200.8	178.6	176.7
35°	2485.3	2203.4	1553.6	1122.9	760.9	418.1	227.9	152.6	122.6	113.9	113.9
37.5°	2735.4	2461.2	1688.7	1045.7	584.2	255.9	137.1	99.5	93.7	92.7	92.7
40°	2866.7	2575.1	1786.3	939.5	391.0	148.7	96.6	85.9	84.0	82.1	82.1
42.5°	3033.7	2672.6	1870.3	795.6	226.9	104.3	85.0	78.2	75.3	73.4	73.4
45°	3126.4	2778.8	1817.2	624.7	129.4	93.7	78.2	70.5	67.6	67.6	67.6
47.5°	3217.2	2880.2	1749.6	449.0	110.1	85.9	73.4	65.7	62.8	64.7	64.7
50°	3320.5	2948.8	1642.4	336.0	104.3	80.1	66.6	59.9	57.9	60.8	60.8
52.5°	3417.1	2955.5	1470.5	268.4	96.6	74.3	61.8	55.0	53.1	55.0	55.0
55°	3445.1	2934.3	1421.3	213.4	91.7	68.6	57.9	51.2	46.3	46.3	45.4
57.5°	3438.3	2892.8	1301.6	180.6	85.9	62.8	53.1	45.4	39.6	37.7	37.7
60°	3415.1	2834.8	1175.1	157.4	80.1	57.9	47.3	38.6	32.8	30.9	30.9
62.5°	3386.2	2725.7	996.4	137.1	74.3	56.0	39.6	31.9	28.0	26.1	26.1
65°	3264.5	2555.8	797.5	116.8	68.6	49.2	34.8	28.0	24.1	22.2	22.2
67.5°	3062.7	2297.0	576.4	99.5	63.7	41.5	30.9	24.1	20.3	19.3	18.3
70°	2761.5	1939.8	357.3	85.9	55.0	37.7	27.0	21.2	18.3	15.4	15.4
72.5°	2301.9	1518.8	187.3	67.6	43.4	31.9	24.1	19.3	15.4	13.5	12.6
75°	1618.3	936.6	135.2	52.1	29.9	26.1	20.3	16.4	13.5	11.6	10.6
77.5°	781.1	322.5	94.6	38.6	21.2	19.3	15.4	13.5	10.6	9.7	9.7
80°	285.8	183.5	67.6	28.0	17.4	15.4	11.6	10.6	8.7	7.7	7.7
82.5°	128.4	86.9	38.6	18.3	12.6	11.6	8.7	6.8	6.8	6.8	6.8
85°	21.2	18.3	12.6	8.7	6.8	5.8	5.8	4.8	4.8	4.8	4.8
87.5°	5.8	5.8	4.8	4.8	3.9	2.9	1.9	1.9	1.9	2.9	2.9
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)