

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: P509286

Luminaire Tested: **VERD-CA2-60-760-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509286
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-CA2-60-760-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5700K, 850mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8612 lumens
Efficiency: N/A
Efficacy: 135.8 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

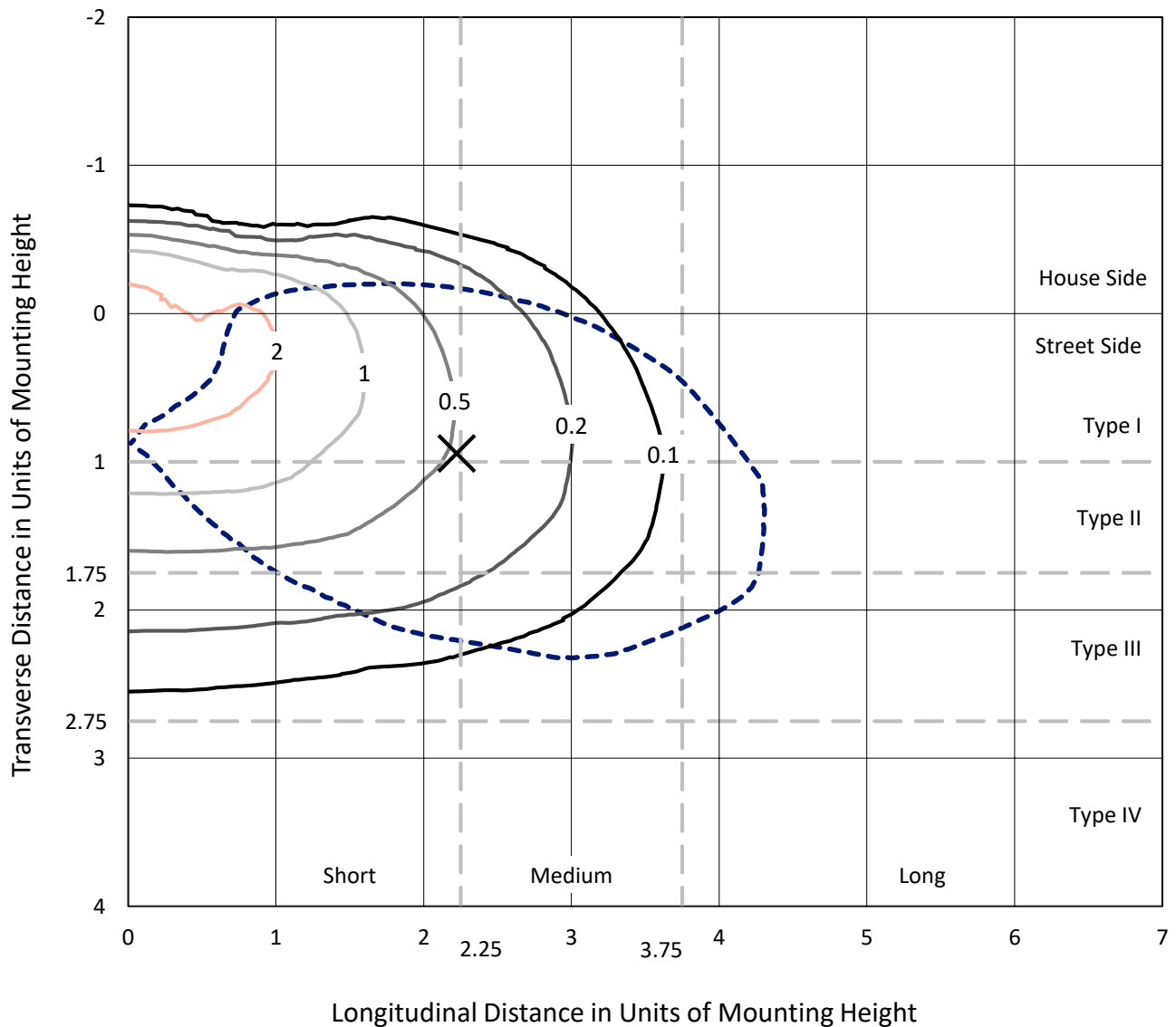
Input Watts (W): 63.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

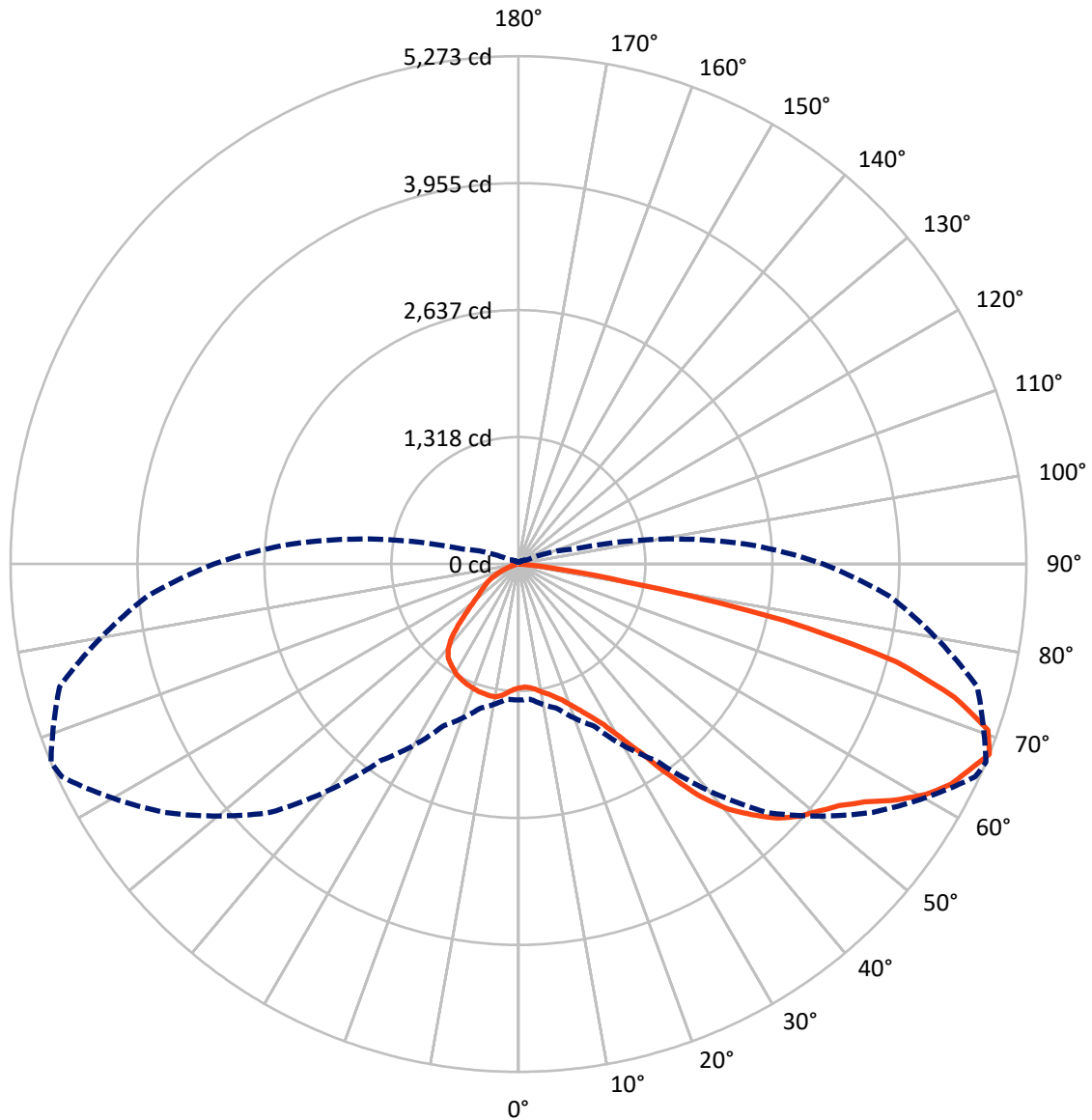
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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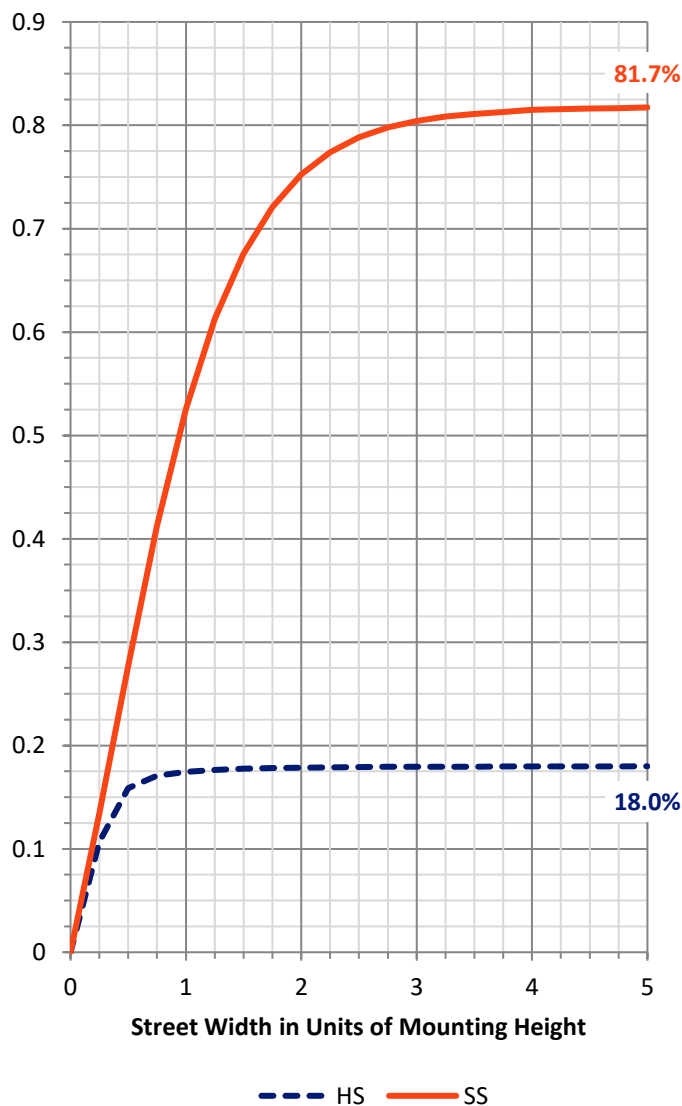
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1569.2	0.0	1569.2
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	7042.8	0.0	7042.8
	% Fixture	81.8	0.0	81.8
Total	Lumens	8612.0	0.0	8612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.5
10°-20°	403.5	4.7
20°-30°	688.5	8.0
30°-40°	1071.6	12.4
40°-50°	1512.8	17.6
50°-60°	1822.0	21.2
60°-70°	1882.9	21.9
70°-80°	1037.3	12.0
80°-90°	64.7	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°	8612.0	100.0
0°-180°	8612.0	100.0

Coefficient of Utilization



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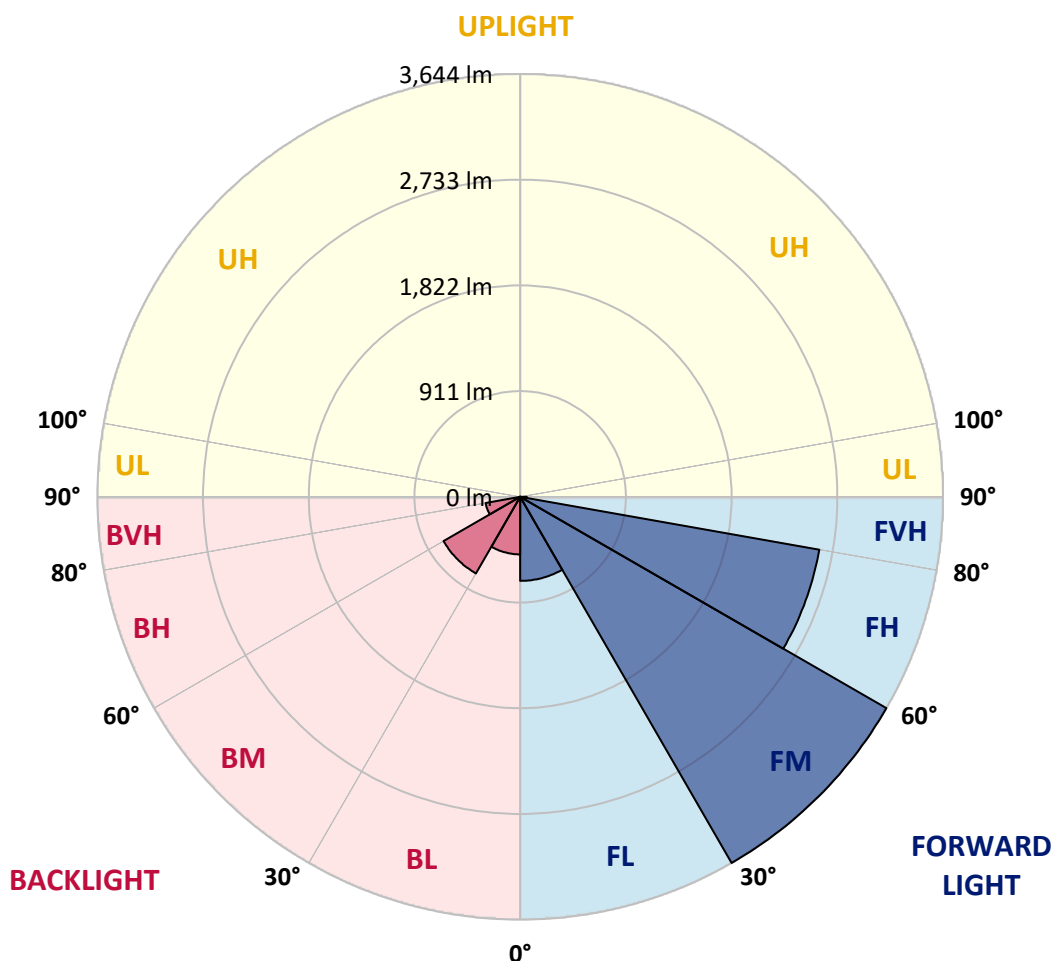
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	724.6	8.4			
FM	(30°-60°)	3643.6	42.3			
FH	(60°-80°)	2617.7	30.4			G2/5000
FVH	(80°-90°)	56.9	0.7			G1/100
BL	(0°-30°)	496.1	5.8	B1/500		
BM	(30°-60°)	762.8	8.9	B1/1000		
BH	(60°-80°)	302.4	3.5	B1/500		G1/500
BVH	(80°-90°)	7.8	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°	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9
2.5°	1273.9	1286.9	1286.9	1282.9	1284.9	1275.9	1269.9	1276.9	1278.9	1284.9	1292.8
5°	1298.8	1313.8	1312.8	1305.8	1299.8	1291.9	1283.9	1289.9	1290.9	1292.8	1302.8
7.5°	1351.7	1365.6	1359.6	1352.7	1349.7	1331.7	1314.8	1313.8	1315.8	1321.8	1332.7
10°	1420.4	1431.4	1429.4	1418.4	1410.5	1383.6	1359.6	1350.7	1351.7	1353.7	1372.6
12.5°	1498.2	1513.1	1502.2	1487.2	1473.3	1434.4	1401.5	1388.5	1386.5	1391.5	1407.5
15°	1574.9	1590.9	1582.9	1573.9	1542.0	1499.2	1457.3	1436.4	1434.4	1434.4	1444.4
17.5°	1675.6	1681.6	1676.6	1663.7	1627.8	1573.9	1524.1	1493.2	1488.2	1491.2	1493.2
20°	1787.3	1798.2	1792.2	1778.3	1726.5	1668.6	1605.8	1569.0	1566.0	1569.0	1550.0
22.5°	1922.8	1926.8	1923.8	1900.9	1854.0	1777.3	1694.6	1652.7	1652.7	1655.7	1616.8
25°	2038.5	2062.4	2055.4	2027.5	1972.7	1905.9	1806.2	1754.4	1757.4	1759.3	1705.5
27.5°	2173.0	2193.0	2188.0	2167.0	2131.2	2046.4	1926.8	1892.9	1889.9	1886.9	1803.2
30°	2301.6	2316.6	2326.5	2321.5	2292.6	2212.9	2106.2	2081.3	2089.3	2083.3	1938.8
32.5°	2406.3	2432.2	2460.1	2466.1	2458.1	2387.3	2309.6	2322.5	2332.5	2403.3	2316.6
35°	2496.0	2523.9	2569.7	2617.6	2626.6	2598.7	2559.8	2654.5	2683.4	2827.9	2736.2
37.5°	2589.7	2613.6	2659.5	2735.2	2785.1	2800.0	2837.9	2987.4	3057.2	3181.8	3011.3
40°	2632.5	2656.5	2736.2	2831.9	2935.6	3019.3	3095.1	3268.5	3346.3	3384.1	3162.8
42.5°	2589.7	2612.6	2741.2	2921.6	3062.2	3247.6	3333.3	3506.7	3558.6	3554.6	3349.2
45°	2547.8	2569.7	2704.3	2944.5	3176.8	3457.9	3530.7	3725.0	3762.9	3715.1	3456.9
47.5°	2494.0	2523.9	2663.4	2930.6	3279.5	3648.3	3715.1	3880.5	3914.4	3843.7	3580.5
50°	2428.2	2454.1	2616.6	2908.7	3347.2	3790.8	3861.6	4026.1	4035.0	3969.2	3692.1
52.5°	2352.4	2366.4	2542.8	2864.8	3406.1	3895.5	3976.2	4148.7	4169.6	4151.7	3824.7
55°	2239.8	2264.7	2454.1	2796.0	3410.0	3950.3	4064.9	4322.1	4360.0	4318.1	3905.5
57.5°	2121.2	2148.1	2344.5	2700.3	3351.2	3985.2	4226.4	4547.4	4622.2	4487.6	3971.2
60°	1990.6	2014.5	2207.9	2558.8	3246.6	4035.0	4392.9	4811.5	4858.4	4632.1	4015.1
62.5°	1839.1	1858.0	2042.4	2387.3	3086.1	4022.1	4536.4	5023.9	5038.8	4761.7	4011.1
65°	1654.7	1653.7	1825.1	2148.1	2822.9	3918.4	4562.3	5130.5	5148.5	4845.4	3975.2
67.5°	1411.5	1408.5	1552.0	1856.0	2491.0	3648.3	4493.6	5230.2	5273.1	4933.2	3870.6
70°	1106.4	1110.4	1219.1	1490.2	2021.5	3236.6	4312.1	5163.4	5172.4	4764.7	3599.4
72.5°	782.5	780.5	854.3	1037.7	1494.2	2526.9	3789.8	4707.9	4735.8	4348.0	3135.9
75°	358.8	373.8	558.2	634.0	902.1	1720.5	3118.0	4000.2	4054.0	3743.0	2445.1
77.5°	66.8	68.8	119.6	241.2	352.9	621.0	1863.0	2709.3	2821.9	2550.8	1377.6
80°	52.8	53.8	70.8	115.6	147.5	279.1	613.0	1116.4	1141.3	994.8	496.4
82.5°	38.9	39.9	52.8	74.8	68.8	120.6	255.2	325.0	344.9	321.0	197.4
85°	22.9	23.9	30.9	36.9	35.9	47.8	42.9	38.9	34.9	28.9	24.9
87.5°	6.0	8.0	13.0	13.0	10.0	9.0	8.0	7.0	8.0	7.0	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°	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9	1285.9
2.5°	1294.8	1293.8	1296.8	1304.8	1311.8	1312.8	1322.8	1335.7	1329.7	1346.7	1340.7
5°	1308.8	1311.8	1322.8	1335.7	1347.7	1357.6	1372.6	1394.5	1387.5	1403.5	1397.5
7.5°	1340.7	1345.7	1362.6	1375.6	1389.5	1386.5	1399.5	1412.5	1396.5	1413.5	1405.5
10°	1378.6	1384.6	1394.5	1399.5	1395.5	1393.5	1390.5	1388.5	1367.6	1379.6	1374.6
12.5°	1412.5	1413.5	1410.5	1397.5	1388.5	1364.6	1353.7	1348.7	1316.8	1325.7	1319.8
15°	1445.4	1431.4	1416.5	1386.5	1361.6	1324.7	1300.8	1279.9	1250.0	1261.9	1250.0
17.5°	1481.2	1460.3	1421.4	1377.6	1326.7	1272.9	1234.0	1200.1	1155.3	1153.3	1149.3
20°	1527.1	1496.2	1433.4	1361.6	1288.9	1208.1	1146.3	1089.5	1021.7	1012.7	994.8
22.5°	1584.9	1539.1	1451.3	1340.7	1242.0	1140.3	1035.7	942.0	856.2	829.3	819.4
25°	1651.7	1594.9	1461.3	1321.8	1197.2	1041.7	899.1	777.5	676.8	647.9	639.9
27.5°	1735.4	1665.6	1476.3	1293.8	1125.4	921.0	735.6	601.1	511.4	464.5	457.5
30°	1851.1	1744.4	1497.2	1265.9	1038.7	779.5	570.2	413.7	328.9	301.0	296.0
32.5°	2166.0	1931.8	1520.1	1216.1	924.0	622.0	378.8	264.2	207.3	184.4	182.4
35°	2565.8	2274.7	1603.8	1159.3	785.5	431.6	235.2	157.5	126.6	117.6	117.6
37.5°	2823.9	2540.8	1743.4	1079.5	603.1	264.2	141.5	102.7	96.7	95.7	95.7
40°	2959.5	2658.5	1844.1	969.9	403.7	153.5	99.7	88.7	86.7	84.7	84.7
42.5°	3131.9	2759.1	1930.8	821.4	234.2	107.7	87.7	80.7	77.8	75.8	75.8
45°	3227.6	2868.8	1876.0	644.9	133.6	96.7	80.7	72.8	69.8	69.8	69.8
47.5°	3321.3	2973.4	1806.2	463.5	113.6	88.7	75.8	67.8	64.8	66.8	66.8
50°	3428.0	3044.2	1695.6	346.9	107.7	82.7	68.8	61.8	59.8	62.8	62.8
52.5°	3527.7	3051.2	1518.1	277.1	99.7	76.8	63.8	56.8	54.8	56.8	56.8
55°	3556.6	3029.3	1467.3	220.3	94.7	70.8	59.8	52.8	47.8	47.8	46.8
57.5°	3549.6	2986.4	1343.7	186.4	88.7	64.8	54.8	46.8	40.9	38.9	38.9
60°	3525.7	2926.6	1213.1	162.5	82.7	59.8	48.8	39.9	33.9	31.9	31.9
62.5°	3495.8	2814.0	1028.7	141.5	76.8	57.8	40.9	32.9	28.9	26.9	26.9
65°	3370.2	2638.5	823.4	120.6	70.8	50.8	35.9	28.9	24.9	22.9	22.9
67.5°	3161.8	2371.4	595.1	102.7	65.8	42.9	31.9	24.9	20.9	19.9	18.9
70°	2850.8	2002.6	368.8	88.7	56.8	38.9	27.9	21.9	18.9	15.9	15.9
72.5°	2376.4	1568.0	193.4	69.8	44.9	32.9	24.9	19.9	15.9	14.0	13.0
75°	1670.6	966.9	139.6	53.8	30.9	26.9	20.9	16.9	14.0	12.0	11.0
77.5°	806.4	332.9	97.7	39.9	21.9	19.9	15.9	14.0	11.0	10.0	10.0
80°	295.1	189.4	69.8	28.9	17.9	15.9	12.0	11.0	9.0	8.0	8.0
82.5°	132.6	89.7	39.9	18.9	13.0	12.0	9.0	7.0	7.0	7.0	7.0
85°	21.9	18.9	13.0	9.0	7.0	6.0	6.0	5.0	5.0	5.0	5.0
87.5°	6.0	6.0	5.0	5.0	4.0	3.0	2.0	2.0	2.0	3.0	3.0
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)