

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: P509342

Luminaire Tested: **VERD-CA2-80-722-U-T3-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509342
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-CA2-80-722-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1100mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8868 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

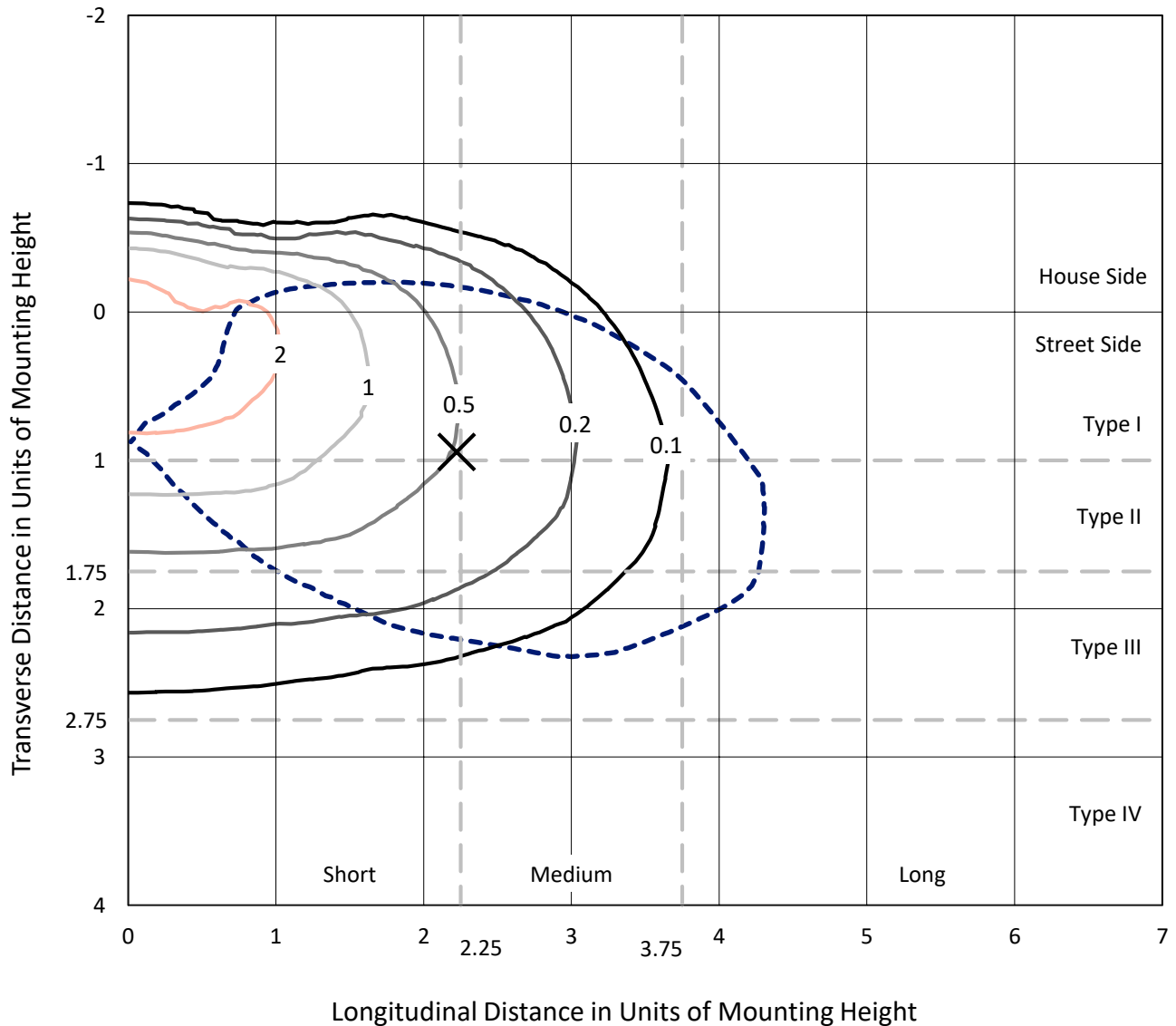
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

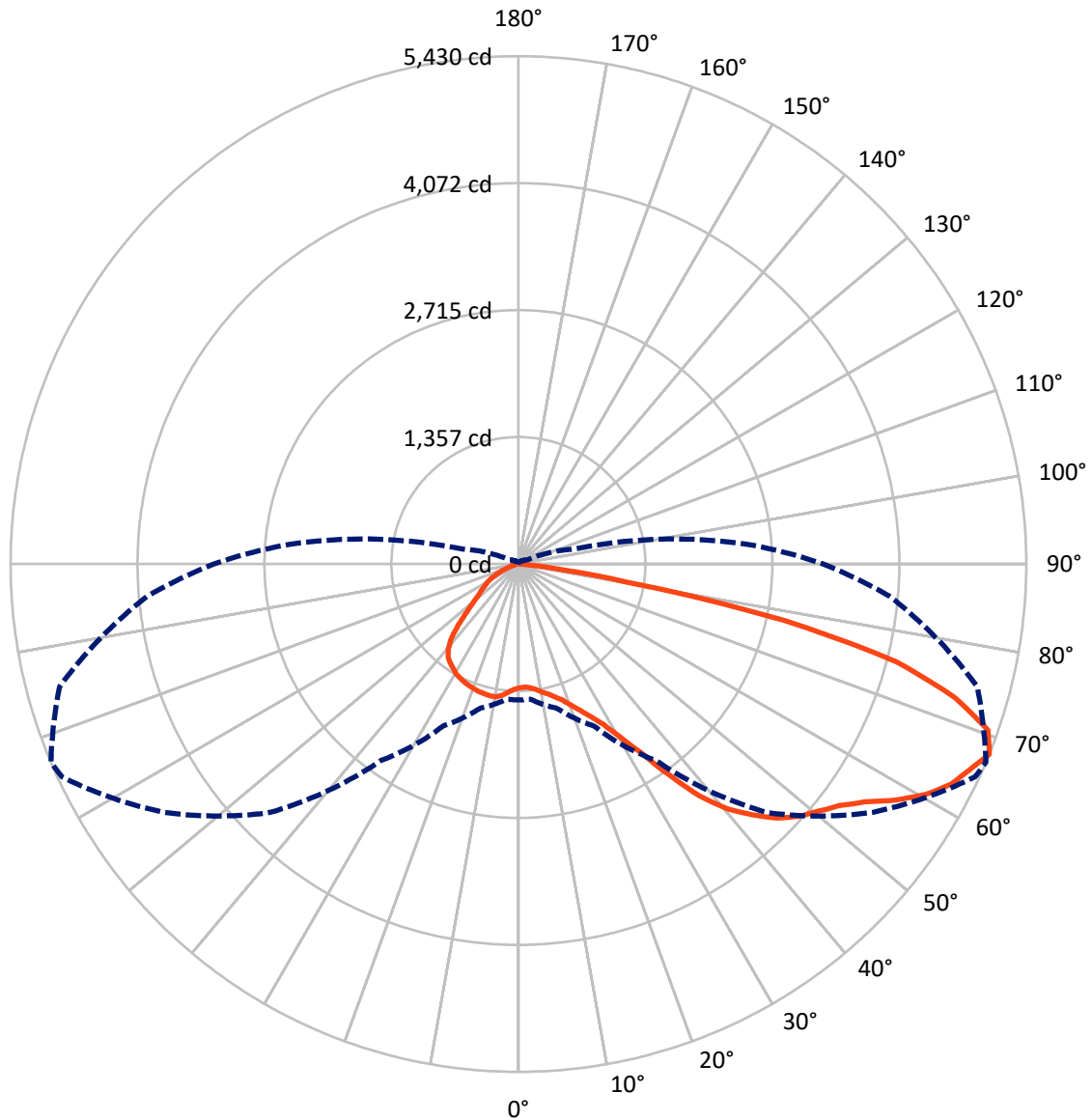
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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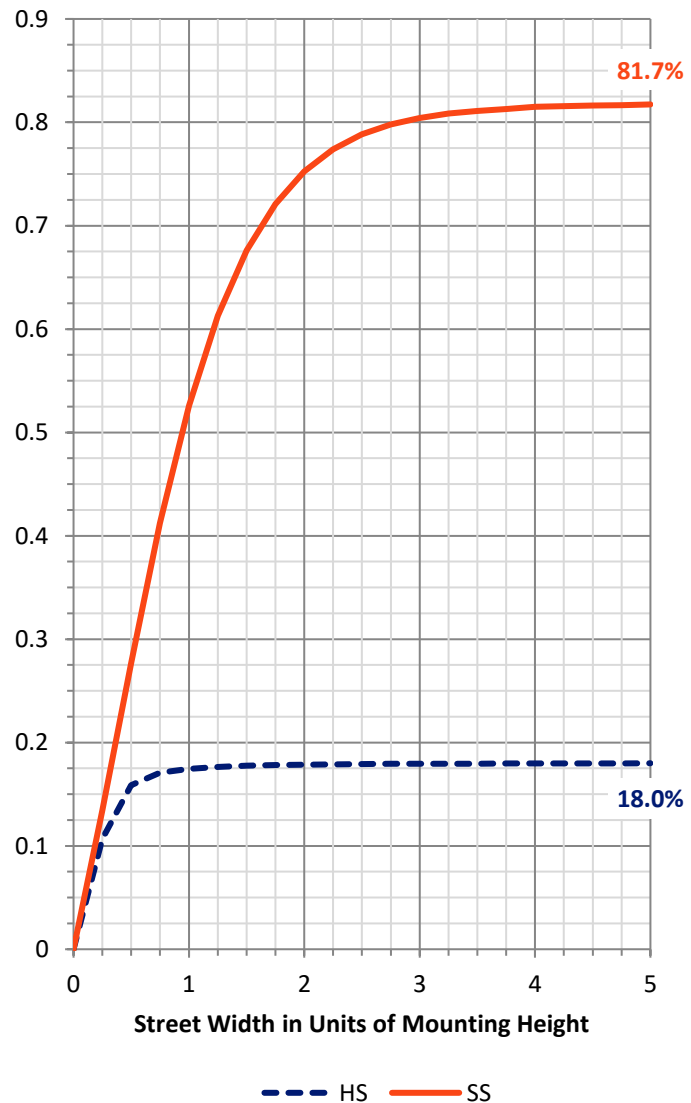
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1615.8	0.0	1615.8
	% Fixture	18.2	0.0	18.2
Street Side	Lumens	7252.2	0.0	7252.2
	% Fixture	81.8	0.0	81.8
Total	Lumens	8868.0	0.0	8868.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.5
10°-20°	415.5	4.7
20°-30°	708.9	8.0
30°-40°	1103.5	12.4
40°-50°	1557.7	17.6
50°-60°	1876.2	21.2
60°-70°	1938.9	21.9
70°-80°	1068.1	12.0
80°-90°	66.6	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°	8868.0	100.0
0°-180°	8868.0	100.0



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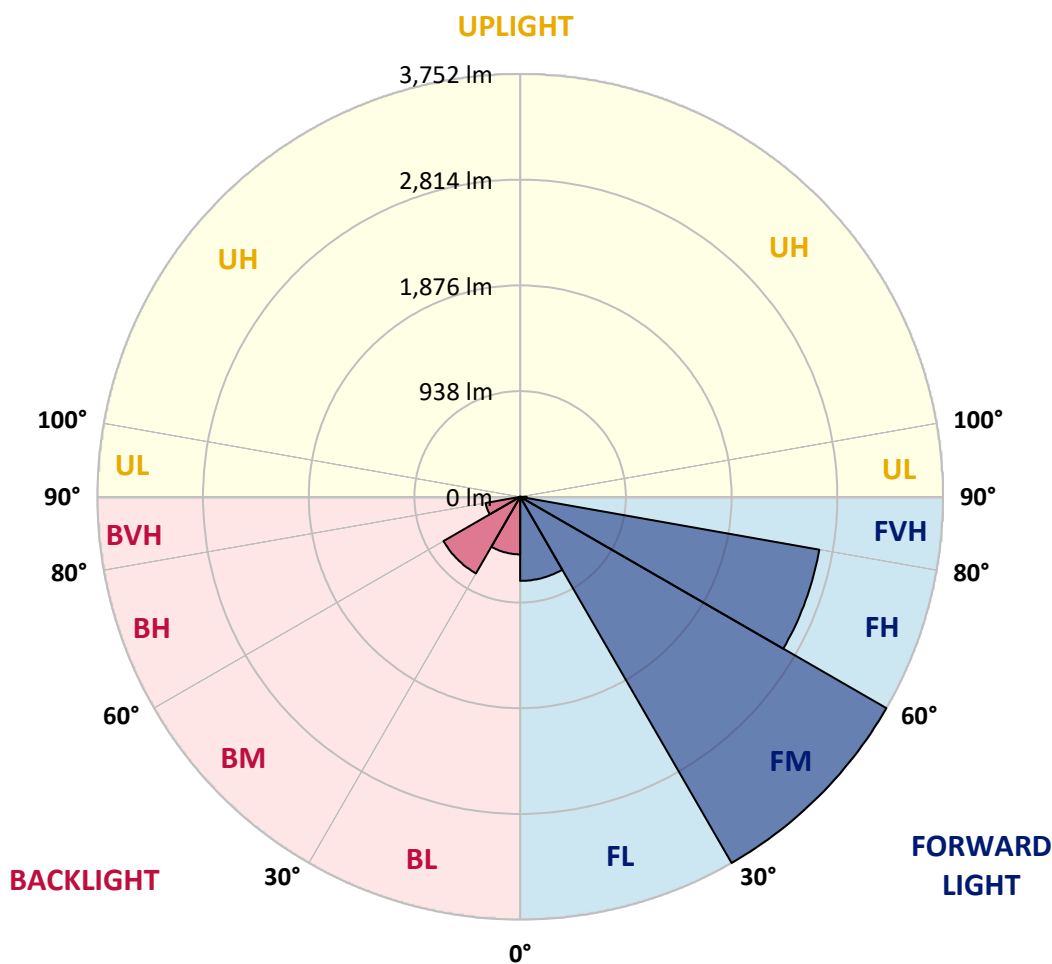
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.2	8.4			
FM (30°-60°)	3751.9	42.3			
FH (60°-80°)	2695.5	30.4			G2/5000
FVH (80°-90°)	58.6	0.7			G1/100
BL (0°-30°)	510.9	5.8	B2/1000		
BM (30°-60°)	785.5	8.9	B1/1000		
BH (60°-80°)	311.4	3.5	B1/500		G1/500
BVH (80°-90°)	8.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1
2.5°	1311.8	1325.1	1325.1	1321.0	1323.1	1313.8	1307.7	1314.9	1316.9	1323.1	1331.3
5°	1337.4	1352.8	1351.8	1344.6	1338.5	1330.3	1322.0	1328.2	1329.2	1331.3	1341.5
7.5°	1391.8	1406.2	1400.0	1392.9	1389.8	1371.3	1353.9	1352.8	1354.9	1361.0	1372.3
10°	1462.7	1474.0	1471.9	1460.6	1452.4	1424.7	1400.0	1390.8	1391.8	1393.9	1413.4
12.5°	1542.7	1558.1	1546.8	1531.4	1517.1	1477.0	1443.2	1429.8	1427.8	1432.9	1449.3
15°	1621.8	1638.2	1630.0	1620.7	1587.9	1543.7	1500.6	1479.1	1477.0	1477.0	1487.3
17.5°	1725.4	1731.6	1726.5	1713.1	1676.2	1620.7	1569.4	1537.6	1532.5	1535.5	1537.6
20°	1840.4	1851.7	1845.5	1831.1	1777.8	1718.2	1653.6	1615.6	1612.5	1615.6	1596.1
22.5°	1980.0	1984.1	1981.0	1957.4	1909.2	1830.1	1744.9	1701.8	1701.8	1704.9	1664.9
25°	2099.0	2123.7	2116.5	2087.8	2031.3	1962.5	1859.9	1806.5	1809.6	1811.6	1756.2
27.5°	2237.6	2258.1	2253.0	2231.5	2194.5	2107.3	1984.1	1949.2	1946.1	1943.0	1856.8
30°	2370.0	2385.4	2395.7	2390.6	2360.8	2278.7	2168.8	2143.2	2151.4	2145.2	1996.4
32.5°	2477.8	2504.5	2533.2	2539.4	2531.2	2458.3	2378.2	2391.6	2401.8	2474.7	2385.4
35°	2570.2	2598.9	2646.1	2695.4	2704.6	2675.9	2635.9	2733.4	2763.1	2912.0	2817.5
37.5°	2666.7	2691.3	2738.5	2816.5	2867.8	2883.2	2922.2	3076.2	3148.1	3276.4	3100.8
40°	2710.8	2735.4	2817.5	2916.1	3022.8	3109.1	3187.1	3365.7	3445.7	3484.7	3256.9
42.5°	2666.7	2690.3	2822.7	3008.5	3153.2	3344.1	3432.4	3611.0	3664.4	3660.2	3448.8
45°	2623.6	2646.1	2784.7	3032.1	3271.2	3560.7	3635.6	3835.8	3874.8	3825.5	3559.7
47.5°	2568.1	2598.9	2742.6	3017.7	3377.0	3756.7	3825.5	3995.9	4030.8	3957.9	3686.9
50°	2500.4	2527.1	2694.4	2995.1	3446.7	3903.5	3976.4	4145.7	4155.0	4087.2	3801.9
52.5°	2422.4	2436.7	2618.4	2950.0	3507.3	4011.3	4094.4	4272.0	4293.6	4275.1	3938.4
55°	2306.4	2332.0	2527.1	2879.1	3511.4	4067.7	4185.8	4450.6	4489.6	4446.5	4021.5
57.5°	2184.2	2212.0	2414.2	2780.6	3450.9	4103.7	4352.1	4682.6	4759.6	4621.0	4089.3
60°	2049.8	2074.4	2273.5	2634.8	3343.1	4155.0	4523.5	4954.6	5002.8	4769.8	4134.5
62.5°	1893.8	1913.3	2103.2	2458.3	3177.8	4141.6	4671.3	5173.2	5188.6	4903.3	4130.3
65°	1703.9	1702.8	1879.4	2212.0	2906.8	4034.9	4698.0	5283.0	5301.5	4989.5	4093.4
67.5°	1453.4	1450.3	1598.1	1911.2	2565.0	3756.7	4627.1	5385.7	5429.8	5079.8	3985.6
70°	1139.3	1143.4	1255.3	1534.5	2081.6	3332.8	4440.3	5316.9	5326.1	4906.3	3706.4
72.5°	805.7	803.7	879.6	1068.5	1538.6	2602.0	3902.5	4847.8	4876.6	4477.3	3229.1
75°	369.5	384.9	574.8	652.8	928.9	1771.6	3210.7	4119.1	4174.5	3854.2	2517.8
77.5°	68.8	70.8	123.2	248.4	363.4	639.5	1918.4	2789.8	2905.8	2626.6	1418.5
80°	54.4	55.4	72.9	119.1	151.9	287.4	631.3	1149.6	1175.3	1024.4	511.2
82.5°	40.0	41.1	54.4	77.0	70.8	124.2	262.8	334.6	355.1	330.5	203.2
85°	23.6	24.6	31.8	38.0	37.0	49.3	44.1	40.0	35.9	29.8	25.7
87.5°	6.2	8.2	13.3	13.3	10.3	9.2	8.2	7.2	8.2	7.2	7.2
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°	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1	1324.1
2.5°	1333.3	1332.3	1335.4	1343.6	1350.8	1351.8	1362.1	1375.4	1369.3	1386.7	1380.5
5°	1347.7	1350.8	1362.1	1375.4	1387.7	1398.0	1413.4	1436.0	1428.8	1445.2	1439.1
7.5°	1380.5	1385.7	1403.1	1416.5	1430.8	1427.8	1441.1	1454.4	1438.0	1455.5	1447.3
10°	1419.6	1425.7	1436.0	1441.1	1437.0	1434.9	1431.9	1429.8	1408.3	1420.6	1415.4
12.5°	1454.4	1455.5	1452.4	1439.1	1429.8	1405.2	1393.9	1388.8	1355.9	1365.2	1359.0
15°	1488.3	1474.0	1458.6	1427.8	1402.1	1364.1	1339.5	1317.9	1287.1	1299.5	1287.1
17.5°	1525.3	1503.7	1463.7	1418.5	1366.2	1310.7	1270.7	1235.8	1189.6	1187.6	1183.5
20°	1572.5	1540.7	1476.0	1402.1	1327.2	1244.0	1180.4	1121.9	1052.1	1042.9	1024.4
22.5°	1632.0	1584.8	1494.5	1380.5	1278.9	1174.2	1066.5	970.0	881.7	854.0	843.7
25°	1700.8	1642.3	1504.7	1361.0	1232.7	1072.6	925.8	800.6	696.9	667.2	659.0
27.5°	1787.0	1715.2	1520.1	1332.3	1158.8	948.4	757.5	618.9	526.6	478.3	471.1
30°	1906.1	1796.3	1541.7	1303.6	1069.5	802.7	587.1	426.0	338.7	310.0	304.8
32.5°	2230.4	1989.2	1565.3	1252.2	951.5	640.5	390.0	272.0	213.5	189.9	187.8
35°	2642.0	2342.3	1651.5	1193.7	808.8	444.4	242.2	162.2	130.4	121.1	121.1
37.5°	2907.9	2616.4	1795.2	1111.6	621.0	272.0	145.8	105.7	99.6	98.5	98.5
40°	3047.5	2737.5	1898.9	998.7	415.7	158.1	102.6	91.4	89.3	87.2	87.2
42.5°	3225.0	2841.2	1988.2	845.8	241.2	110.9	90.3	83.1	80.1	78.0	78.0
45°	3323.6	2954.1	1931.7	664.1	137.5	99.6	83.1	74.9	71.9	71.9	71.9
47.5°	3420.1	3061.8	1859.9	477.3	117.0	91.4	78.0	69.8	66.7	68.8	68.8
50°	3529.9	3134.7	1746.0	357.2	110.9	85.2	70.8	63.6	61.6	64.7	64.7
52.5°	3632.5	3141.9	1563.3	285.3	102.6	79.0	65.7	58.5	56.5	58.5	58.5
55°	3662.3	3119.3	1510.9	226.8	97.5	72.9	61.6	54.4	49.3	49.3	48.2
57.5°	3655.1	3075.2	1383.6	191.9	91.4	66.7	56.5	48.2	42.1	40.0	40.0
60°	3630.5	3013.6	1249.2	167.3	85.2	61.6	50.3	41.1	34.9	32.8	32.8
62.5°	3599.7	2897.6	1059.3	145.8	79.0	59.5	42.1	33.9	29.8	27.7	27.7
65°	3470.4	2717.0	847.8	124.2	72.9	52.3	37.0	29.8	25.7	23.6	23.6
67.5°	3255.8	2441.9	612.8	105.7	67.7	44.1	32.8	25.7	21.6	20.5	19.5
70°	2935.6	2062.1	379.8	91.4	58.5	40.0	28.7	22.6	19.5	16.4	16.4
72.5°	2447.0	1614.6	199.1	71.9	46.2	33.9	25.7	20.5	16.4	14.4	13.3
75°	1720.3	995.6	143.7	55.4	31.8	27.7	21.6	17.4	14.4	12.3	11.3
77.5°	830.4	342.8	100.6	41.1	22.6	20.5	16.4	14.4	11.3	10.3	10.3
80°	303.8	195.0	71.9	29.8	18.5	16.4	12.3	11.3	9.2	8.2	8.2
82.5°	136.5	92.4	41.1	19.5	13.3	12.3	9.2	7.2	7.2	7.2	7.2
85°	22.6	19.5	13.3	9.2	7.2	6.2	6.2	5.1	5.1	5.1	5.1
87.5°	6.2	6.2	5.1	5.1	4.1	3.1	2.1	2.1	2.1	3.1	3.1
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)