

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: P507675

Luminaire Tested: **VERD-S-CA1-70-727-U-T3**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-727-U-T3
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1330mA LED AND TYPE III OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8310 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 73.5
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

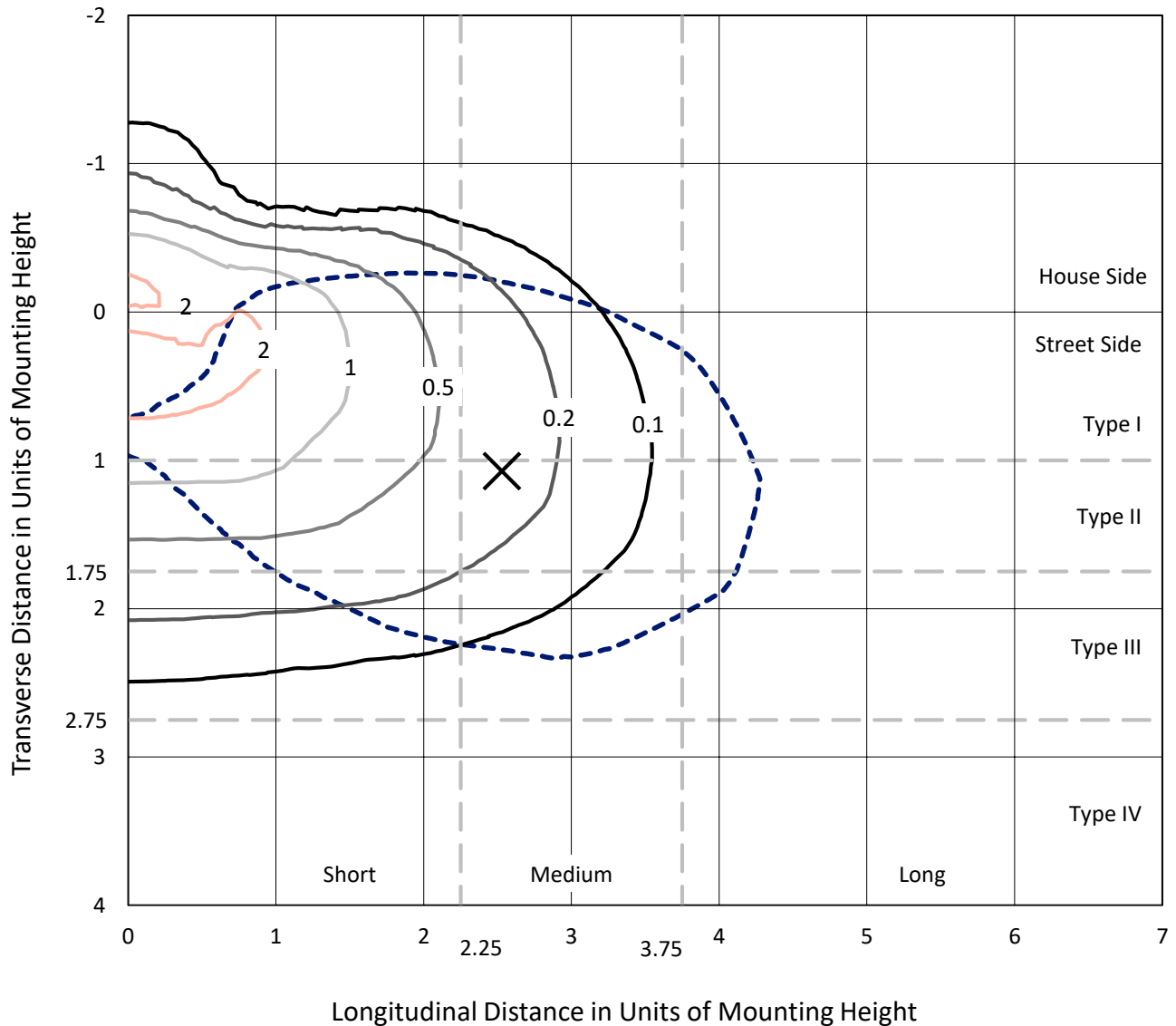


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Iso-Footcandle Lines of Horizontal Illumination

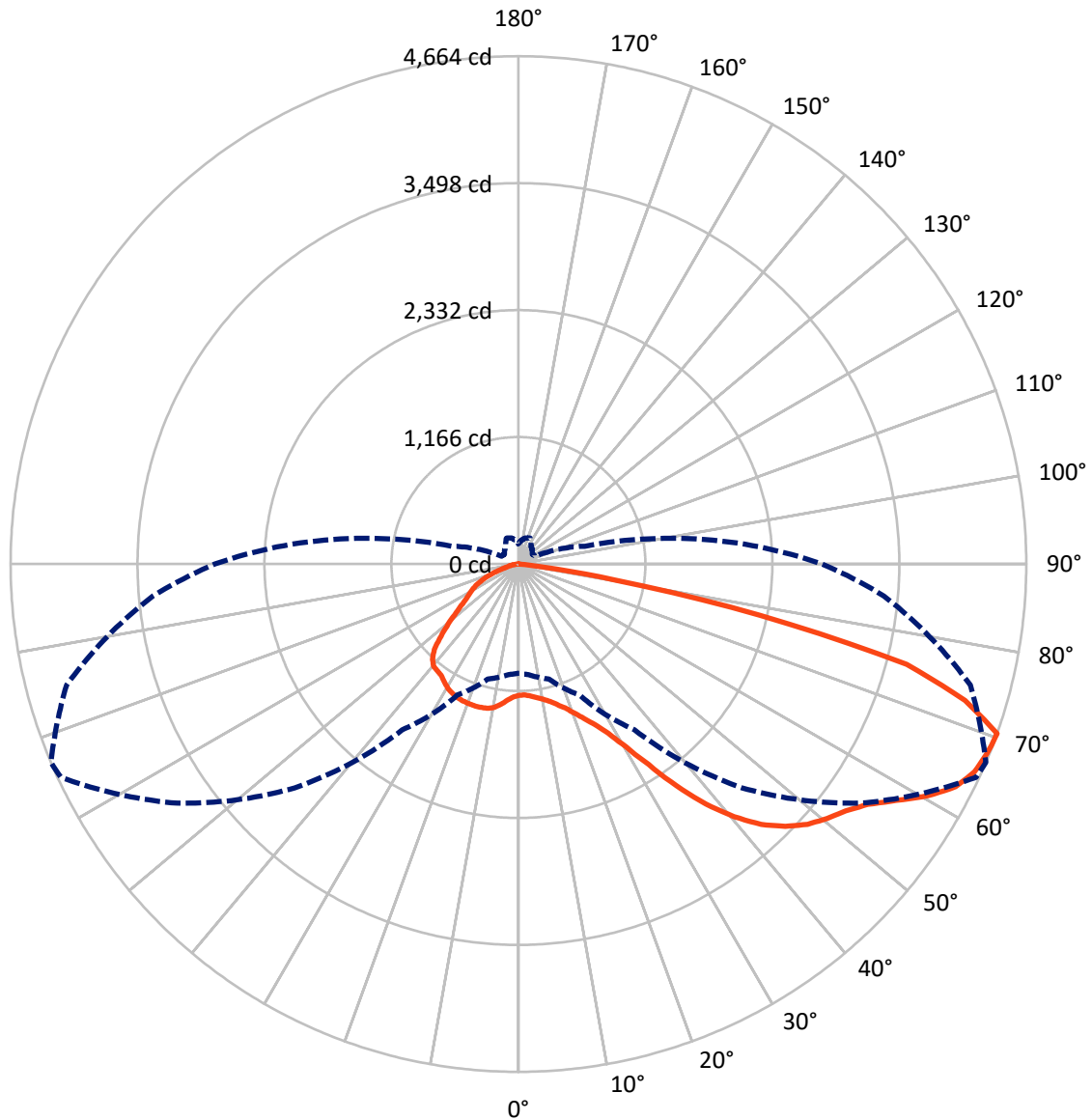
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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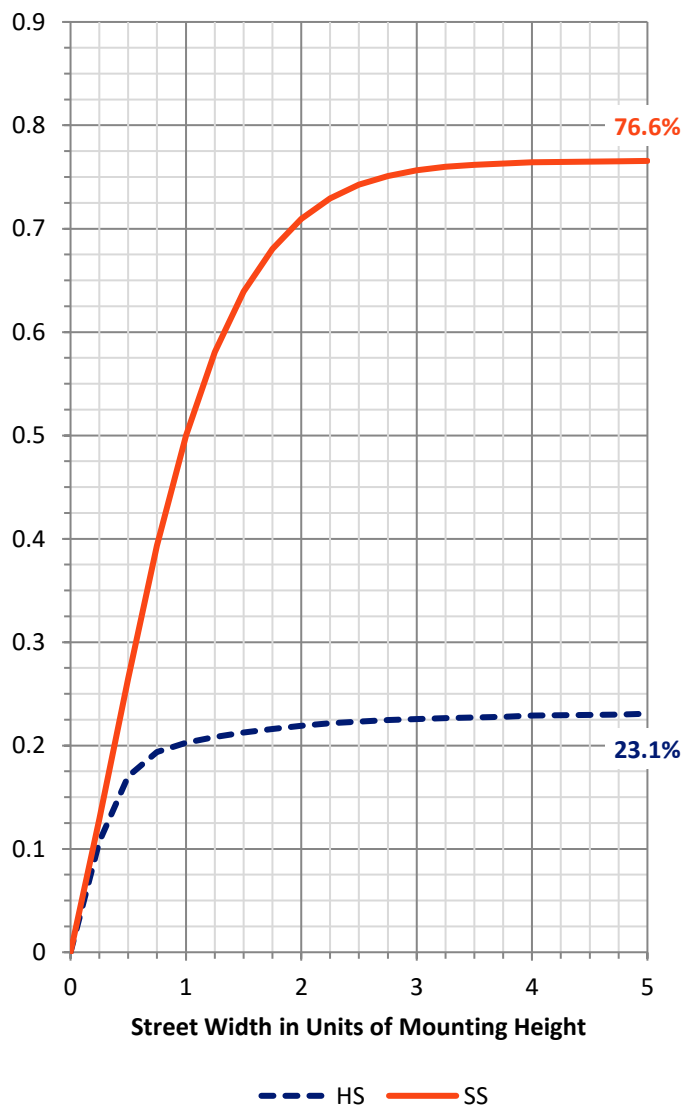
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1944.3	0.0	1944.3
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	6365.7	0.0	6365.7
	% Fixture	76.6	0.0	76.6
Total	Lumens	8310.0	0.0	8310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.5
10°-20°	393.9	4.7
20°-30°	694.7	8.4
30°-40°	1064.9	12.8
40°-50°	1451.6	17.5
50°-60°	1717.7	20.7
60°-70°	1790.7	21.5
70°-80°	1001.7	12.1
80°-90°	72.5	0.9
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°	8310.0	100.0
0°-180°	8310.0	100.0

Coefficient of Utilization



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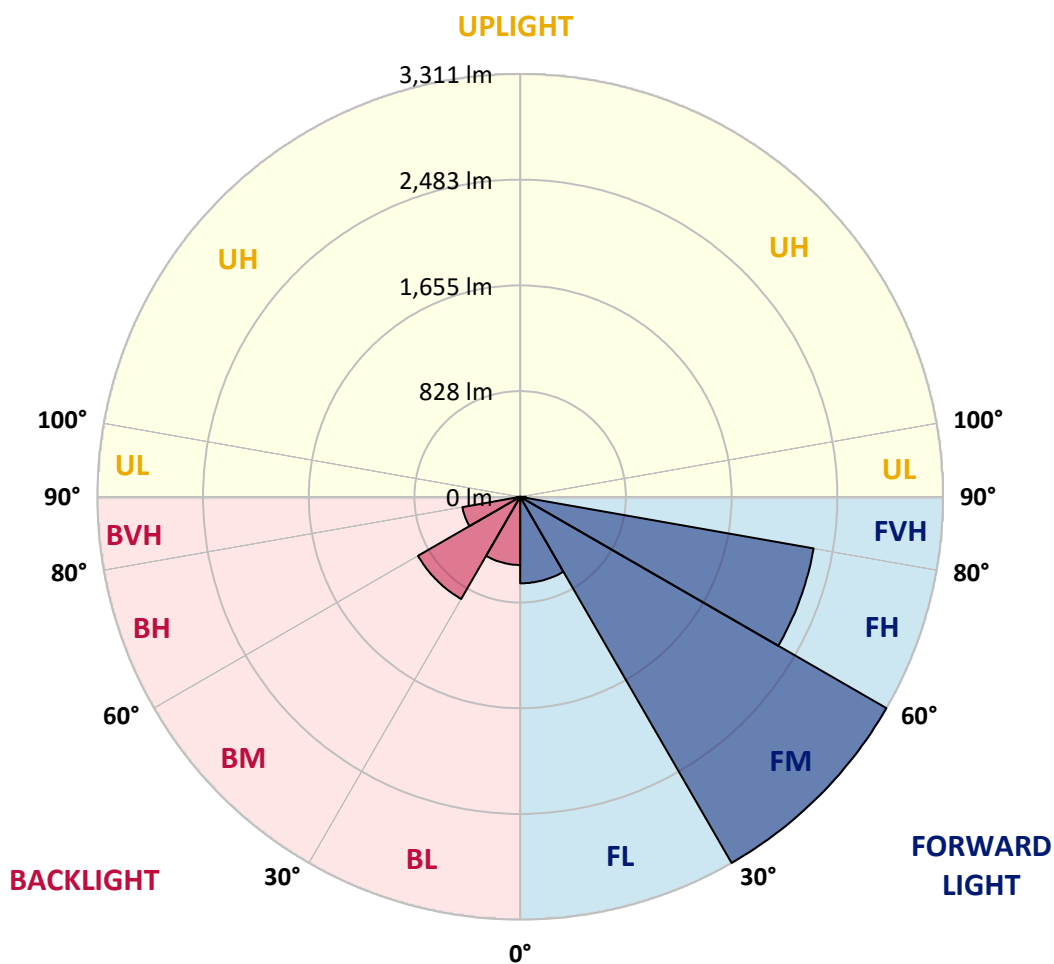
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.3	8.2			
FM (30°-60°)	3310.7	39.8			
FH (60°-80°)	2333.3	28.1			G2/5000
FVH (80°-90°)	44.4	0.5			G1/100
BL (0°-30°)	533.7	6.4	B2/1000		
BM (30°-60°)	923.5	11.1	B1/1000		
BH (60°-80°)	459.1	5.5	B1/500		G1/500
BVH (80°-90°)	28.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1210.1	1210.1	1210.1	1207.7	1207.7	1207.7	1205.4	1203.0	1203.0	1205.4	1205.4
5°	1240.8	1240.8	1238.4	1236.0	1231.3	1226.6	1221.9	1219.5	1219.5	1219.5	1221.9
7.5°	1283.2	1280.9	1276.1	1273.8	1266.7	1259.6	1250.2	1240.8	1240.8	1236.0	1240.8
10°	1335.1	1335.1	1328.0	1323.3	1313.9	1295.0	1280.9	1266.7	1264.3	1259.6	1266.7
12.5°	1401.2	1401.2	1396.4	1384.7	1370.5	1346.9	1321.0	1297.4	1295.0	1287.9	1302.1
15°	1481.4	1474.3	1471.9	1462.5	1436.5	1405.9	1370.5	1339.8	1339.8	1328.0	1344.5
17.5°	1571.0	1568.6	1566.3	1554.5	1523.8	1479.0	1431.8	1396.4	1389.4	1382.3	1391.7
20°	1679.5	1677.1	1674.8	1655.9	1620.5	1566.3	1509.7	1462.5	1457.8	1450.7	1443.6
22.5°	1804.5	1804.5	1795.1	1780.9	1731.4	1667.7	1599.3	1540.3	1540.3	1533.3	1500.2
25°	1924.8	1920.1	1915.4	1898.9	1858.8	1790.4	1710.2	1641.8	1632.3	1632.3	1575.7
27.5°	2035.7	2035.7	2042.8	2033.3	1993.2	1922.5	1842.3	1764.4	1759.7	1750.3	1663.0
30°	2151.3	2156.0	2158.4	2158.4	2139.5	2085.2	1998.0	1939.0	1948.4	1924.8	1792.7
32.5°	2238.6	2243.3	2273.9	2302.2	2285.7	2255.1	2205.5	2186.7	2196.1	2215.0	2071.1
35°	2321.1	2328.2	2370.7	2429.6	2455.6	2441.4	2448.5	2481.5	2502.7	2578.2	2453.2
37.5°	2382.4	2389.5	2427.3	2500.4	2578.2	2618.3	2684.4	2757.5	2797.6	2894.3	2715.0
40°	2399.0	2410.8	2488.6	2587.7	2705.6	2825.9	2906.1	3000.5	3050.0	3094.8	2892.0
42.5°	2342.3	2354.1	2455.6	2663.2	2828.3	3012.3	3099.5	3229.3	3269.4	3243.4	3028.8
45°	2307.0	2314.0	2417.8	2656.1	2934.4	3191.5	3276.5	3413.3	3436.9	3373.2	3146.7
47.5°	2257.4	2264.5	2375.4	2644.3	3019.3	3347.2	3406.2	3540.6	3571.3	3481.7	3236.4
50°	2184.3	2193.7	2321.1	2623.1	3076.0	3453.4	3517.1	3656.2	3672.7	3578.4	3330.7
52.5°	2097.0	2111.2	2245.6	2578.2	3113.7	3521.8	3604.3	3748.2	3764.7	3703.4	3432.1
55°	1990.9	2005.0	2148.9	2512.2	3101.9	3543.0	3642.1	3866.2	3894.5	3844.9	3519.4
57.5°	1887.1	1896.5	2045.1	2415.5	3035.9	3576.0	3755.3	4057.2	4095.0	3991.2	3590.2
60°	1762.1	1783.3	1927.2	2283.4	2934.4	3609.1	3901.6	4286.0	4321.4	4132.7	3644.4
62.5°	1632.3	1651.2	1778.6	2118.3	2776.4	3578.4	4012.4	4484.2	4505.4	4245.9	3663.3
65°	1481.4	1483.7	1601.7	1908.3	2549.9	3453.4	4021.9	4580.9	4602.1	4316.7	3630.3
67.5°	1280.9	1280.9	1379.9	1641.8	2245.6	3226.9	3936.9	4611.6	4642.2	4363.9	3550.1
70°	1002.5	1019.0	1094.5	1328.0	1858.8	2906.1	3828.4	4635.2	4663.5	4295.5	3368.5
72.5°	700.6	695.9	773.7	915.2	1344.5	2318.8	3415.6	4288.4	4288.4	3946.4	3035.9
75°	214.7	240.6	276.0	370.3	613.3	1554.5	2797.6	3635.0	3682.2	3418.0	2502.7
77.5°	70.8	70.8	82.6	101.4	132.1	330.2	1398.8	2226.8	2264.5	2224.4	1549.8
80°	56.6	56.6	63.7	73.1	84.9	169.8	493.0	835.0	896.4	988.4	641.6
82.5°	40.1	40.1	42.5	44.8	42.5	68.4	129.7	221.7	226.5	245.3	207.6
85°	25.9	23.6	23.6	21.2	18.9	18.9	16.5	16.5	18.9	18.9	23.6
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	7.1	7.1	7.1	7.1
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°	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4	1205.4
2.5°	1207.7	1210.1	1217.2	1221.9	1226.6	1231.3	1233.7	1236.0	1236.0	1238.4	1238.4
5°	1224.2	1229.0	1240.8	1252.6	1271.4	1290.3	1306.8	1316.2	1318.6	1328.0	1328.0
7.5°	1245.5	1252.6	1280.9	1302.1	1330.4	1351.6	1370.5	1379.9	1389.4	1394.1	1394.1
10°	1278.5	1287.9	1316.2	1339.8	1363.4	1379.9	1391.7	1398.8	1401.2	1403.5	1403.5
12.5°	1311.5	1323.3	1339.8	1358.7	1372.9	1382.3	1389.4	1391.7	1391.7	1391.7	1391.7
15°	1346.9	1351.6	1356.3	1361.1	1368.1	1370.5	1370.5	1368.1	1363.4	1361.1	1361.1
17.5°	1382.3	1377.6	1370.5	1361.1	1351.6	1344.5	1335.1	1325.7	1318.6	1313.9	1316.2
20°	1424.8	1410.6	1379.9	1356.3	1330.4	1304.4	1283.2	1264.3	1250.2	1247.8	1250.2
22.5°	1474.3	1446.0	1396.4	1346.9	1302.1	1254.9	1210.1	1184.1	1170.0	1158.2	1158.2
25°	1533.3	1488.4	1410.6	1332.8	1262.0	1186.5	1125.2	1085.1	1061.5	1047.3	1052.1
27.5°	1601.7	1545.1	1424.8	1311.5	1203.0	1103.9	1023.7	960.1	934.1	915.2	917.6
30°	1700.7	1611.1	1441.3	1280.9	1127.5	1002.5	896.4	820.9	776.1	761.9	766.6
32.5°	1922.5	1752.6	1460.1	1236.0	1042.6	882.2	740.7	648.7	601.5	601.5	599.2
35°	2292.8	2047.5	1505.0	1181.8	948.3	747.8	566.1	481.2	478.8	488.3	490.6
37.5°	2552.3	2318.8	1644.1	1129.9	844.5	585.0	419.9	396.3	419.9	429.3	427.0
40°	2719.8	2481.5	1804.5	1075.6	698.2	419.9	332.6	316.1	339.7	358.5	372.7
42.5°	2856.6	2594.7	1877.7	1004.9	521.3	301.9	245.3	240.6	276.0	301.9	311.4
45°	2965.1	2698.5	1887.1	905.8	353.8	224.1	200.5	221.7	264.2	285.4	287.8
47.5°	3052.4	2783.5	1861.1	747.8	235.9	195.8	195.8	224.1	264.2	285.4	285.4
50°	3137.3	2854.2	1795.1	608.6	212.3	191.1	198.1	226.5	261.8	278.3	278.3
52.5°	3208.0	2901.4	1679.5	485.9	205.2	186.3	198.1	226.5	257.1	264.2	259.5
55°	3271.7	2920.3	1575.7	391.6	198.1	184.0	202.9	231.2	254.8	254.8	245.3
57.5°	3307.1	2875.4	1497.9	323.2	191.1	184.0	205.2	235.9	261.8	266.6	259.5
60°	3307.1	2811.8	1413.0	285.4	186.3	184.0	205.2	252.4	311.4	287.8	285.4
62.5°	3262.3	2743.4	1285.6	254.8	179.3	186.3	207.6	280.7	379.8	285.4	273.6
65°	3184.5	2611.3	1118.1	226.5	172.2	188.7	205.2	323.2	452.9	276.0	243.0
67.5°	3038.2	2401.3	910.5	198.1	162.8	184.0	200.5	297.2	278.3	228.8	205.2
70°	2785.8	2087.6	632.2	172.2	155.7	179.3	200.5	261.8	247.7	209.9	184.0
72.5°	2410.8	1712.5	339.7	141.5	136.8	169.8	195.8	240.6	212.3	172.2	155.7
75°	1851.7	1217.2	207.6	110.9	113.2	151.0	181.6	228.8	202.9	165.1	143.9
77.5°	1068.6	563.8	148.6	82.6	80.2	120.3	162.8	212.3	198.1	160.4	139.2
80°	391.6	233.5	101.4	61.3	54.3	87.3	127.4	172.2	188.7	158.0	141.5
82.5°	167.5	125.0	66.0	42.5	40.1	49.5	77.8	120.3	158.0	127.4	117.9
85°	23.6	23.6	23.6	21.2	23.6	30.7	33.0	59.0	87.3	47.2	47.2
87.5°	9.4	9.4	9.4	9.4	11.8	11.8	9.4	9.4	7.1	7.1	7.1
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)