

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: P175661

Luminaire Tested: **VERD-G-A028-E-U-T5-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26225)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-A028-E-U-T5-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K LEDS AT 80% STANDARD LUMENS AND TYPE V OPTICS, GREY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12137 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U0 - G3

Input Watts (W): 103
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: 28.75 FT

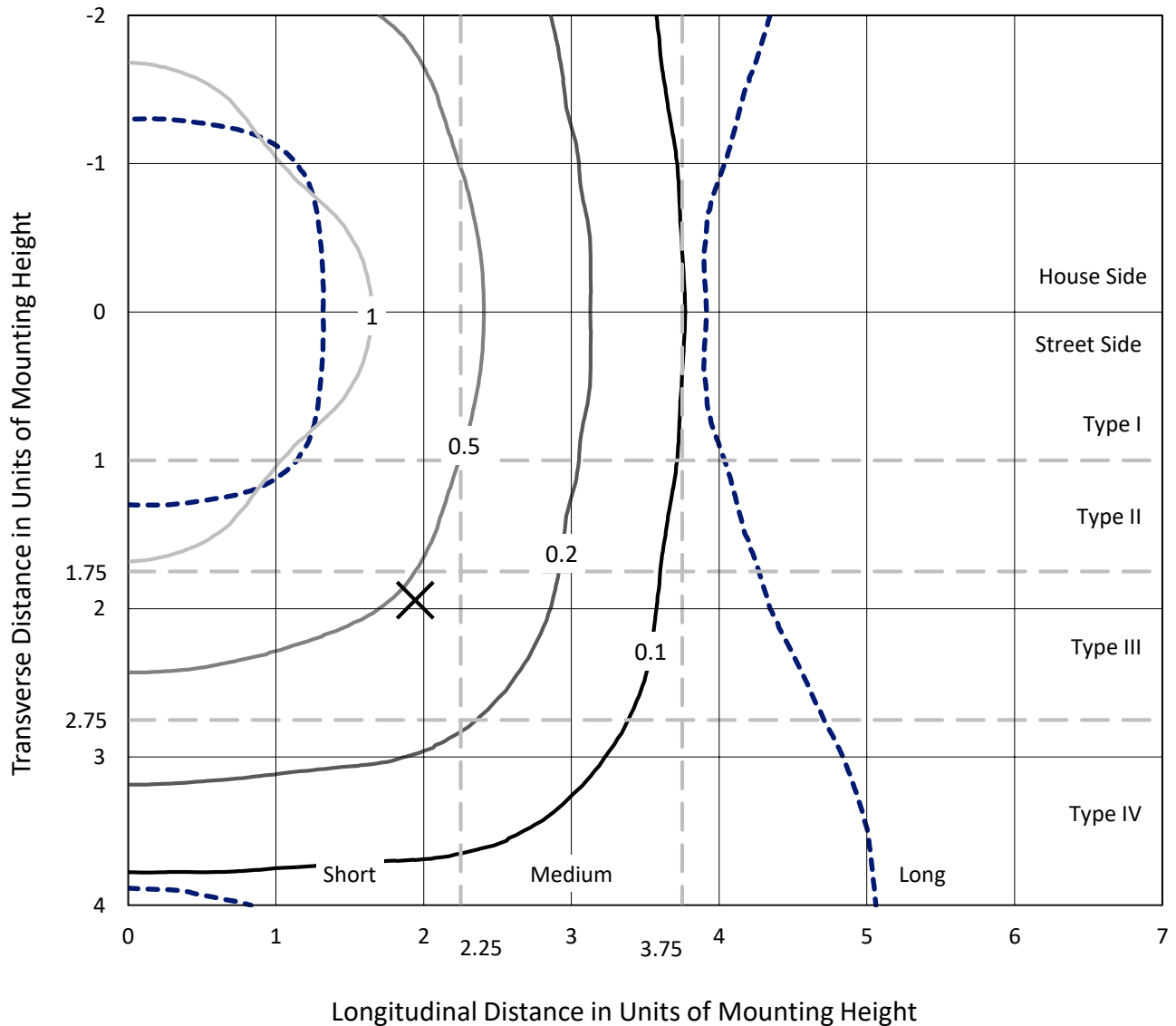


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

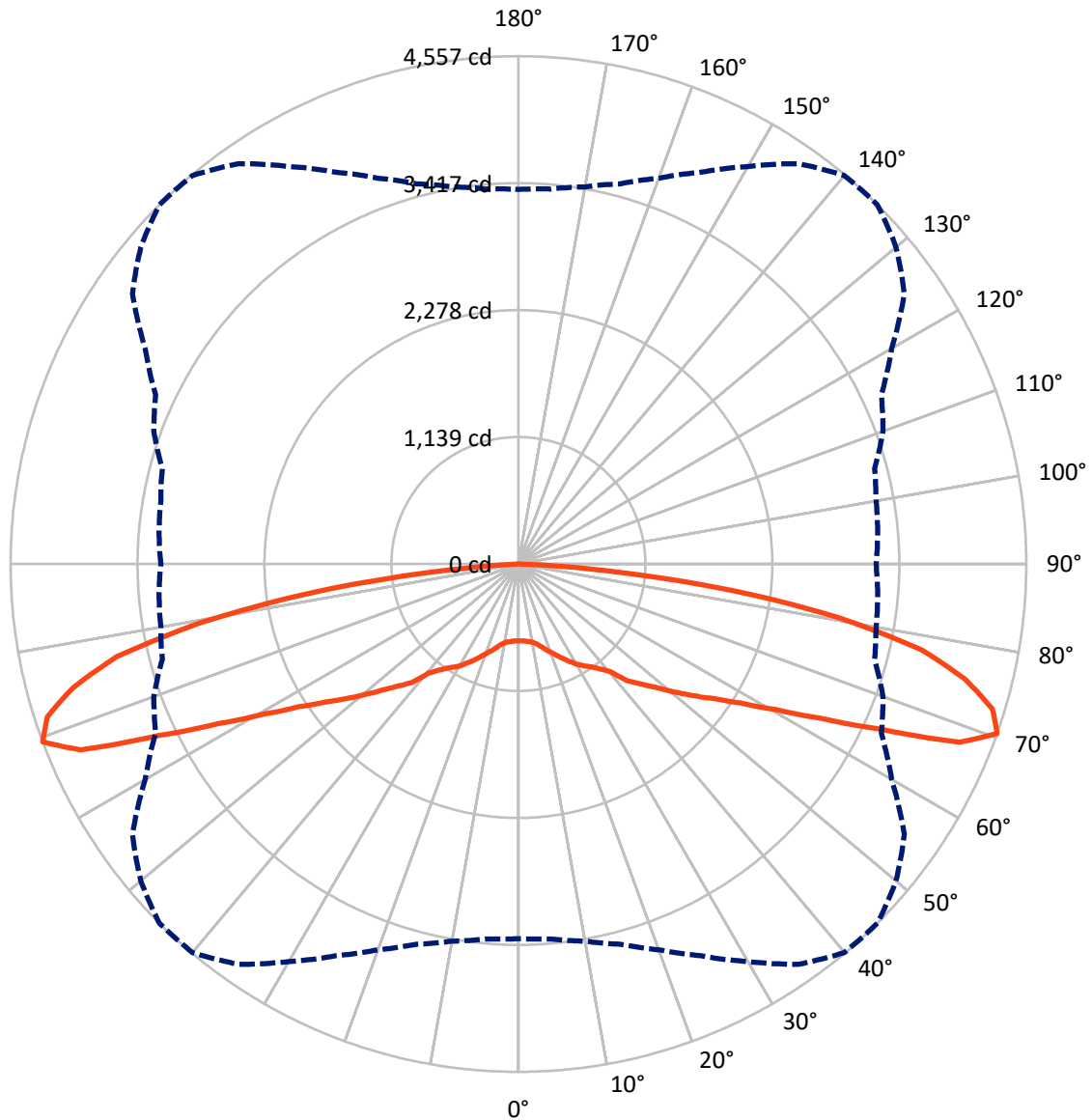


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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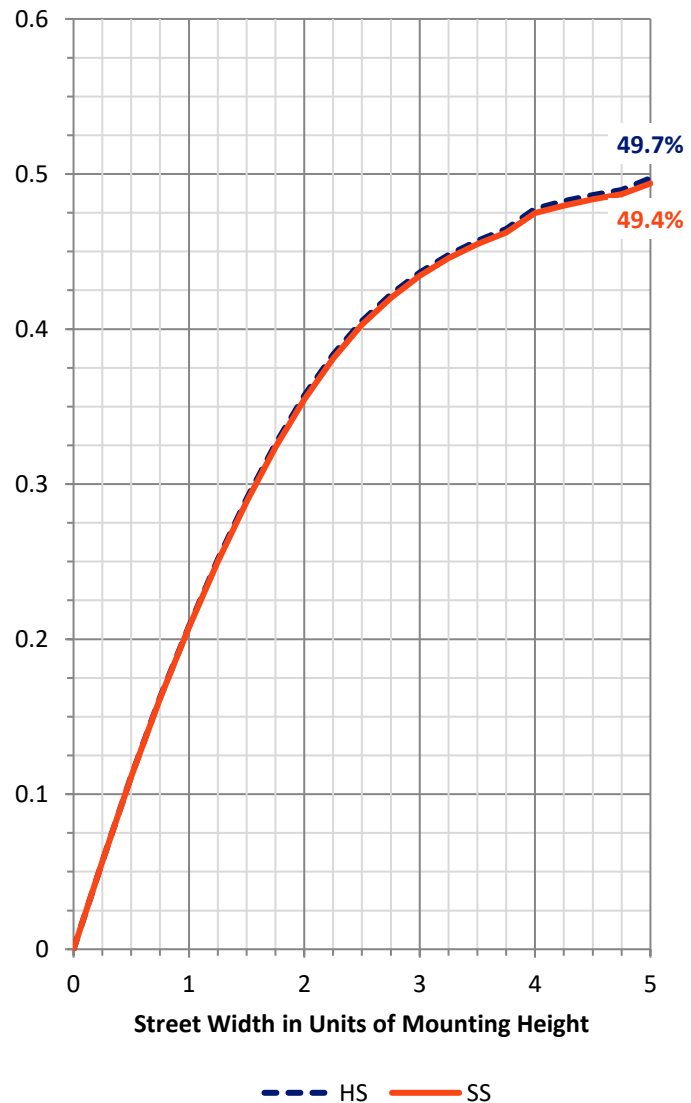
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6068.5	0.0	6068.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6068.5	0.0	6068.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12137.0	0.0	12137.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	0.6
10°-20°	220.0	1.8
20°-30°	426.8	3.5
30°-40°	713.5	5.9
40°-50°	1242.4	10.2
50°-60°	2118.1	17.5
60°-70°	3489.5	28.8
70°-80°	3193.1	26.3
80°-90°	666.5	5.5
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°	12137.0	100.0
0°-180°	12137.0	100.0



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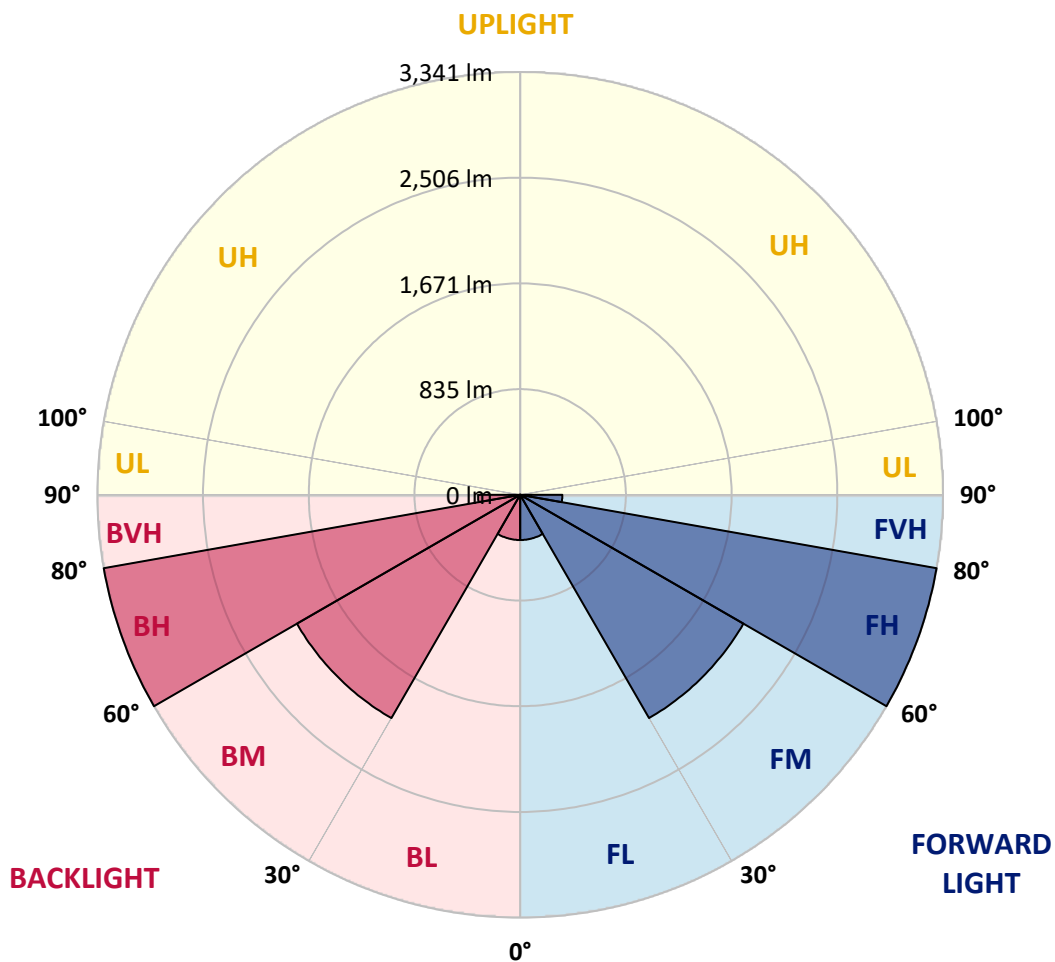
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	357.0	2.9			
FM	(30°-60°)	2037.0	16.8			
FH	(60°-80°)	3341.3	27.5			G2/5000
FVH	(80°-90°)	333.2	2.7			G3/500
BL	(0°-30°)	357.0	2.9	B1/500		
BM	(30°-60°)	2037.0	16.8	B2/2500		
BH	(60°-80°)	3341.3	27.5	B4/5000		G2/5000
BVH	(80°-90°)	333.2	2.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	697.9	697.9	697.9	696.4	696.4	692.4	692.4	689.3	686.9	689.3	687.7
5°	705.8	704.2	703.4	701.9	701.9	699.5	697.9	694.8	694.0	695.6	694.0
7.5°	715.2	713.7	711.3	709.7	711.3	709.0	707.4	703.4	703.4	702.7	702.7
10°	728.6	726.3	725.5	723.9	725.5	720.8	720.8	717.6	716.0	714.5	715.2
12.5°	746.7	745.1	744.4	742.8	742.8	741.2	742.8	738.1	737.3	737.3	738.1
15°	773.5	771.1	770.3	768.8	768.8	770.3	771.1	768.8	771.1	771.1	768.8
17.5°	805.7	802.6	802.6	801.0	802.6	804.2	806.5	806.5	808.9	809.7	806.5
20°	839.6	836.4	835.6	834.8	838.0	839.6	844.3	848.2	851.4	849.0	842.7
22.5°	875.8	872.6	871.0	868.7	871.8	875.8	886.8	894.6	897.8	894.6	886.8
25°	914.3	912.7	912.0	908.0	906.4	914.3	928.5	938.7	945.0	942.6	936.4
27.5°	956.0	953.7	952.9	948.2	947.4	948.9	963.9	984.3	990.6	993.0	985.9
30°	997.7	995.4	994.6	992.2	990.6	990.6	998.5	1019.8	1039.4	1045.7	1030.0
32.5°	1052.0	1048.9	1048.1	1043.4	1041.8	1042.6	1047.3	1057.5	1078.8	1089.8	1070.1
35°	1118.9	1115.8	1110.2	1107.9	1103.9	1104.7	1107.9	1117.3	1127.6	1133.8	1123.6
37.5°	1189.7	1186.6	1183.4	1180.3	1174.8	1174.8	1176.3	1183.4	1192.9	1194.4	1186.6
40°	1292.0	1292.8	1280.2	1276.3	1265.3	1262.9	1263.7	1266.8	1272.3	1268.4	1270.0
42.5°	1465.1	1452.5	1440.7	1436.8	1425.8	1422.6	1421.0	1424.2	1427.3	1431.3	1436.0
45°	1631.1	1624.8	1609.1	1593.4	1572.1	1555.6	1535.1	1521.8	1521.0	1532.0	1533.6
47.5°	1826.3	1816.0	1792.4	1770.4	1737.4	1706.7	1672.1	1650.0	1643.7	1653.2	1654.0
50°	2048.2	2036.4	2008.8	1980.5	1938.0	1899.5	1845.9	1811.3	1797.9	1801.1	1799.5
52.5°	2275.6	2263.8	2229.9	2205.5	2161.5	2109.5	2045.0	1992.3	1965.5	1960.0	1952.2
55°	2533.7	2521.1	2485.7	2458.9	2404.6	2349.5	2267.7	2200.0	2156.8	2133.1	2127.6
57.5°	2802.0	2787.0	2759.5	2716.2	2676.1	2604.5	2530.5	2448.7	2387.3	2352.7	2344.0
60°	3077.4	3064.8	3036.4	3013.6	2972.7	2920.8	2835.8	2754.0	2687.1	2652.5	2632.0
62.5°	3375.6	3367.7	3346.5	3331.5	3299.3	3241.0	3199.3	3134.0	3090.0	3052.2	3026.2
65°	3702.9	3700.6	3699.8	3705.3	3698.2	3669.9	3650.2	3606.1	3591.2	3573.1	3534.5
67.5°	3651.0	3664.4	3705.3	3758.8	3833.5	3916.9	4024.7	4112.9	4204.1	4267.9	4185.2
70°	3360.6	3377.2	3436.2	3531.4	3683.2	3878.4	4118.4	4384.3	4550.3	4556.6	4422.9
72.5°	2997.1	3012.1	3060.8	3197.8	3370.1	3665.1	4062.5	4360.7	4467.7	4446.5	4308.0
75°	2428.2	2459.7	2592.7	2728.8	2965.6	3285.1	3749.3	4065.6	4205.7	4143.5	3969.7
77.5°	1744.4	1743.7	1837.3	2039.5	2265.3	2647.7	3131.7	3544.8	3719.4	3698.2	3562.1
80°	945.0	978.8	1080.3	1247.2	1480.8	1807.4	2229.9	2621.8	2836.6	2906.6	2835.8
82.5°	421.8	439.8	509.9	646.0	791.6	1030.8	1329.0	1626.4	1831.8	1917.6	1853.0
85°	133.0	137.7	162.9	229.0	300.6	426.5	595.6	783.7	883.6	816.7	702.7
87.5°	32.3	33.8	41.7	65.3	96.0	133.8	121.2	102.3	73.2	37.0	22.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	690.1	690.1	690.1	690.1	690.1	690.1	690.1	690.1
2.5°	687.7	686.9	687.7	688.5	688.5	687.7	687.7	689.3
5°	694.8	694.0	694.8	697.1	696.4	697.1	696.4	698.7
7.5°	701.9	701.1	700.3	702.7	702.7	703.4	702.7	704.2
10°	714.5	714.5	713.7	714.5	712.9	712.9	711.3	710.5
12.5°	735.7	734.9	735.7	733.3	731.8	731.0	729.4	727.0
15°	767.2	764.8	765.6	759.3	758.5	757.7	756.2	754.6
17.5°	801.8	796.3	795.5	788.4	789.2	786.8	784.5	784.5
20°	838.0	831.7	827.8	821.5	820.7	819.9	816.0	817.5
22.5°	879.7	870.3	864.7	859.2	856.1	857.7	854.5	856.1
25°	926.9	912.7	900.9	900.2	899.4	900.9	900.2	900.2
27.5°	970.2	948.9	941.1	945.0	945.0	946.6	949.7	948.9
30°	1004.0	990.6	987.5	995.4	995.4	996.9	1000.1	1000.9
32.5°	1052.8	1045.7	1046.5	1056.7	1057.5	1061.5	1065.4	1068.5
35°	1115.0	1112.6	1118.9	1129.9	1133.1	1137.8	1144.9	1149.6
37.5°	1184.2	1189.7	1196.8	1209.4	1218.8	1225.1	1233.8	1238.5
40°	1283.4	1296.7	1308.5	1323.5	1331.3	1342.4	1352.6	1359.7
42.5°	1451.7	1460.4	1469.0	1481.6	1495.0	1504.5	1510.7	1515.5
45°	1554.0	1569.8	1591.8	1617.0	1642.2	1663.4	1679.9	1682.3
47.5°	1676.0	1700.4	1731.1	1770.4	1804.2	1824.7	1837.3	1844.4
50°	1822.3	1852.2	1895.5	1941.9	1980.5	2008.8	2024.6	2035.6
52.5°	1980.5	2018.3	2071.8	2129.2	2176.4	2204.8	2230.7	2243.3
55°	2159.9	2211.8	2277.9	2347.2	2399.1	2436.1	2455.0	2470.7
57.5°	2385.7	2451.0	2528.9	2597.4	2652.5	2692.6	2719.3	2732.7
60°	2684.7	2750.0	2819.3	2886.2	2948.3	2975.9	2999.5	3009.7
62.5°	3051.4	3101.0	3156.8	3204.8	3263.8	3304.0	3329.9	3337.8
65°	3532.2	3554.2	3615.6	3669.1	3669.1	3660.4	3656.5	3650.2
67.5°	4012.9	3865.0	3749.3	3692.7	3632.1	3586.5	3560.5	3544.8
70°	4227.0	3866.6	3592.0	3481.0	3307.9	3258.3	3236.3	3208.8
72.5°	4050.7	3634.5	3246.5	3151.3	2919.2	2946.0	2837.4	2791.7
75°	3678.5	3270.1	2923.1	2706.8	2592.7	2449.5	2391.2	2399.1
77.5°	3293.7	2839.7	2462.1	2243.3	2107.2	1966.3	1933.3	1934.1
80°	2551.0	2141.0	1820.8	1611.5	1448.6	1330.6	1234.6	1205.5
82.5°	1576.8	1301.4	1079.6	934.0	801.0	697.1	599.6	587.0
85°	537.4	427.3	318.7	257.3	204.6	165.2	134.6	129.8
87.5°	14.2	14.2	14.2	14.2	14.2	15.0	15.0	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)