

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: P148108

Luminaire Tested: **AVS-E04-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148108
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-E04-LED-E-U-5WQ-8030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10748.4 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

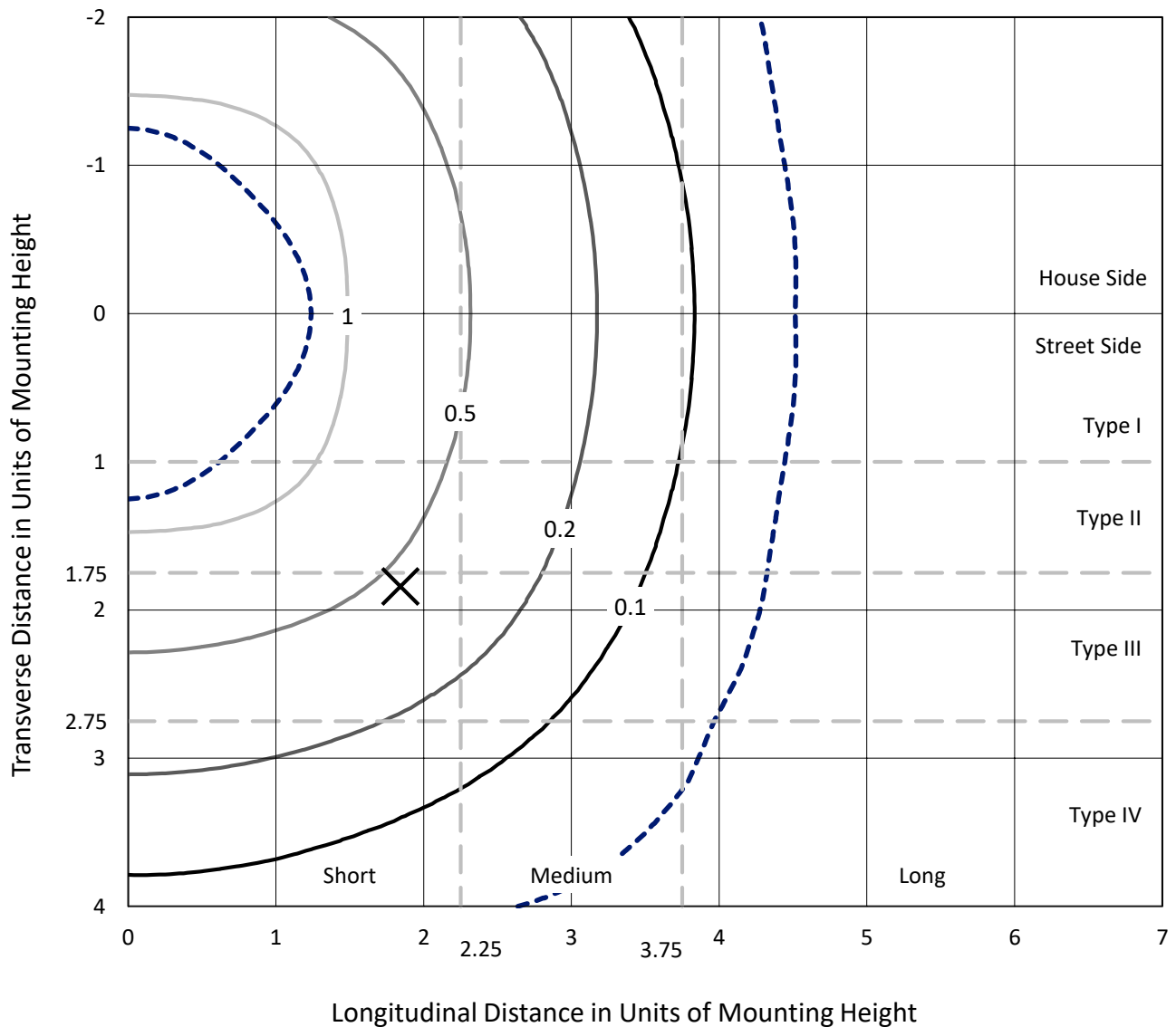
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

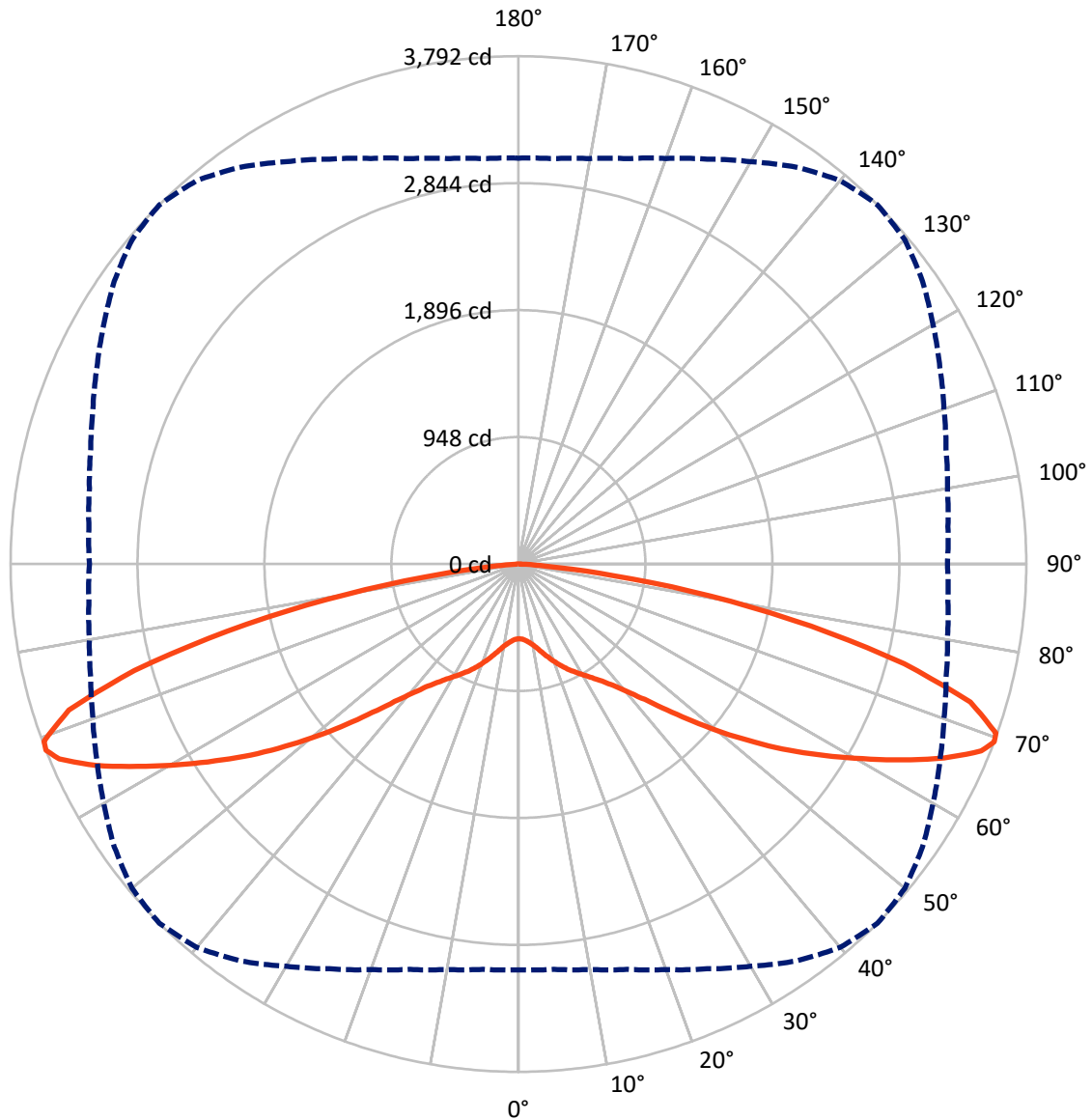
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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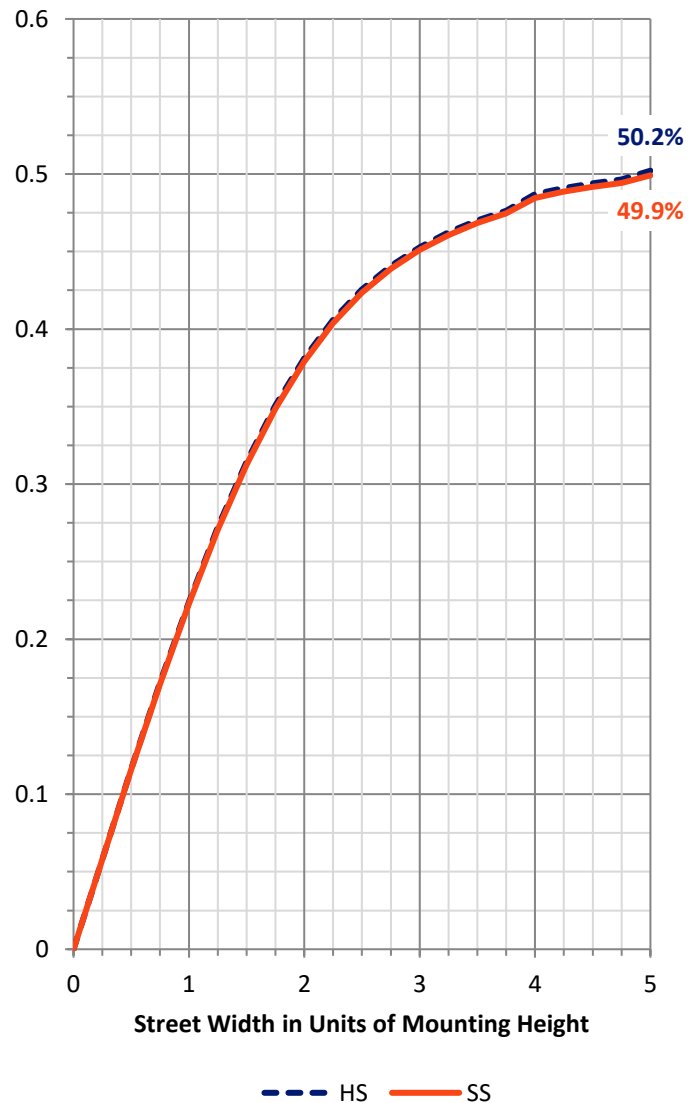
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5374.2	0.0	5374.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5374.2	0.0	5374.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	10748.4	0.0	10748.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	0.5
10°-20°	197.9	1.8
20°-30°	400.7	3.7
30°-40°	671.9	6.3
40°-50°	1185.1	11.0
50°-60°	2090.0	19.4
60°-70°	3190.8	29.7
70°-80°	2666.2	24.8
80°-90°	289.7	2.7
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°	10748.4	100.0
0°-180°	10748.4	100.0



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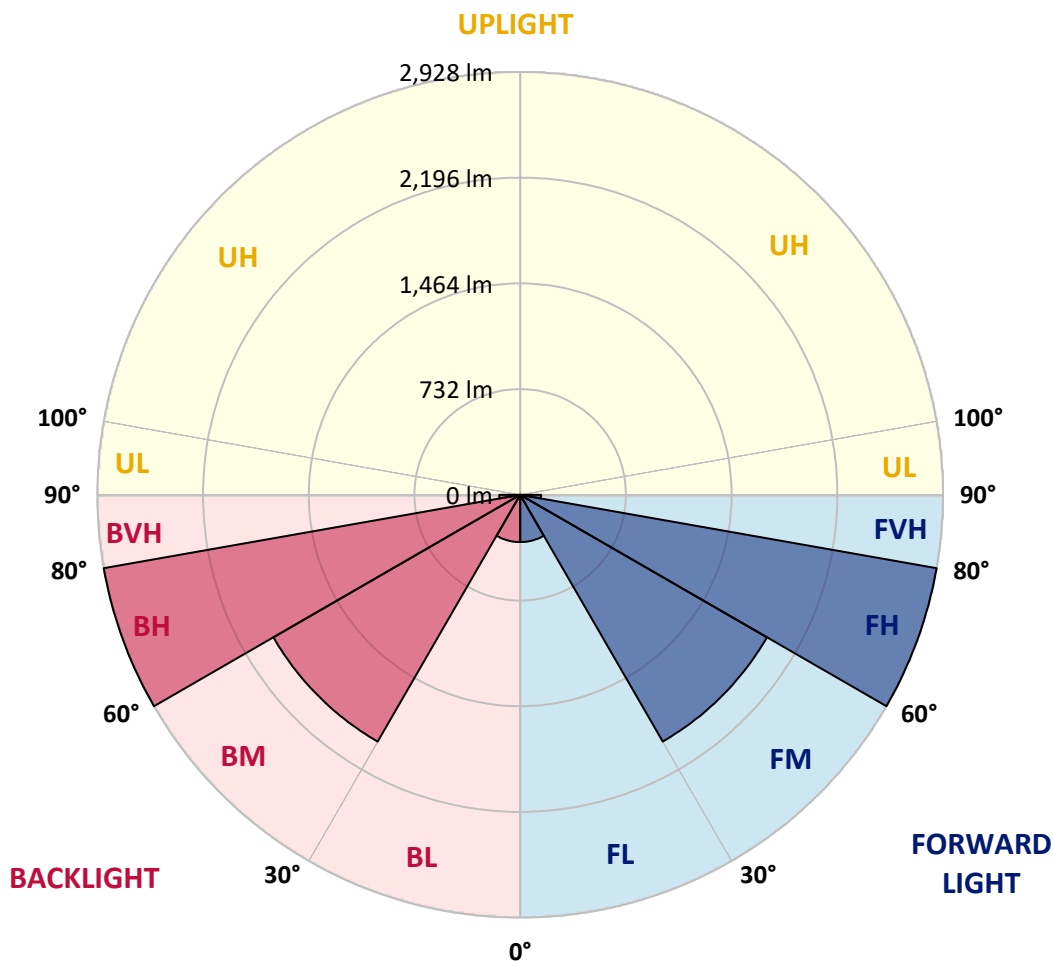
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.4	3.0			
FM	(30°-60°)	1973.5	18.4			
FH	(60°-80°)	2928.5	27.2			G2/5000
FVH	(80°-90°)	144.9	1.3			G2/225
BL	(0°-30°)	327.4	3.0	B1/500		
BM	(30°-60°)	1973.5	18.4	B2/2500		
BH	(60°-80°)	2928.5	27.2	B4/5000		G2/5000
BVH	(80°-90°)	144.9	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	562.7	563.8	562.7	562.7	562.7	562.7	562.7	561.6	561.6	561.6	562.7
5°	573.9	575.0	573.9	575.0	575.0	575.0	575.0	573.9	573.9	573.9	573.9
7.5°	591.9	591.9	591.9	593.1	591.9	591.9	593.1	591.9	591.9	591.9	591.9
10°	617.8	616.7	616.7	616.7	616.7	616.7	617.8	617.8	617.8	616.7	616.7
12.5°	649.3	648.2	649.3	649.3	650.5	650.5	650.5	650.5	650.5	650.5	649.3
15°	687.6	687.6	687.6	688.7	691.0	691.0	689.8	691.0	691.0	691.0	691.0
17.5°	730.4	732.5	730.4	731.5	732.5	731.5	733.7	734.8	736.0	734.8	731.5
20°	774.2	775.3	775.3	775.3	775.3	777.6	778.8	778.8	782.1	780.9	779.9
22.5°	815.9	818.1	818.1	819.3	819.3	822.6	822.6	822.6	824.9	827.2	824.9
25°	859.8	858.7	858.7	860.8	862.0	866.5	866.5	868.7	872.1	873.3	871.0
27.5°	899.2	898.0	898.0	901.3	902.5	908.1	908.1	912.6	914.9	916.1	913.8
30°	940.7	940.7	939.7	943.0	946.4	950.9	953.2	957.6	961.0	962.2	959.9
32.5°	990.3	988.1	989.1	991.4	993.7	998.1	1001.6	1007.2	1011.7	1012.7	1010.6
35°	1046.5	1043.2	1044.2	1046.5	1049.9	1056.7	1062.3	1065.7	1072.4	1074.7	1070.2
37.5°	1108.4	1109.5	1108.4	1114.1	1119.7	1127.6	1134.3	1138.9	1145.6	1148.9	1145.6
40°	1196.2	1192.8	1196.2	1201.9	1210.9	1220.9	1234.5	1237.8	1244.6	1251.4	1243.5
42.5°	1309.8	1307.7	1315.5	1320.0	1330.2	1341.3	1358.2	1367.3	1377.4	1381.9	1375.1
45°	1458.4	1458.4	1467.5	1468.5	1484.2	1499.0	1522.6	1533.8	1553.0	1553.0	1553.0
47.5°	1622.7	1629.4	1635.1	1646.3	1657.6	1684.6	1708.2	1733.0	1751.0	1753.3	1749.8
50°	1792.6	1799.4	1816.3	1832.0	1856.8	1890.6	1916.4	1949.0	1964.8	1978.3	1973.8
52.5°	1980.5	1981.7	2002.0	2022.2	2058.2	2095.3	2137.0	2170.8	2198.9	2211.3	2201.1
55°	2186.5	2188.7	2206.7	2228.2	2268.6	2311.4	2363.2	2398.0	2434.1	2456.6	2439.7
57.5°	2409.3	2410.5	2428.4	2454.3	2502.7	2545.5	2595.0	2644.5	2678.2	2698.5	2687.3
60°	2655.8	2661.3	2674.9	2707.6	2753.7	2798.7	2848.2	2892.1	2931.5	2952.8	2941.6
62.5°	2919.1	2924.7	2943.8	2969.7	3010.3	3059.8	3107.0	3163.3	3196.0	3219.6	3202.7
65°	3095.8	3105.9	3136.3	3171.2	3230.8	3294.9	3350.1	3426.6	3466.0	3494.1	3478.3
67.5°	3107.0	3112.6	3149.7	3202.7	3282.6	3379.4	3491.9	3611.2	3688.8	3725.9	3699.0
69°	3030.5	3038.3	3074.4	3134.0	3222.9	3335.4	3469.3	3617.9	3737.2	3792.3	3766.4
70°	2943.8	2960.7	3000.1	3065.4	3152.0	3270.2	3408.6	3567.3	3706.8	3782.2	3763.1
72.5°	2761.6	2766.0	2791.9	2843.7	2910.1	3008.0	3138.5	3288.2	3420.9	3529.0	3544.8
75°	2451.0	2465.6	2484.7	2519.6	2553.4	2624.2	2712.0	2814.4	2892.1	2975.3	2978.8
77.5°	1852.2	1896.2	1910.8	1918.7	1933.3	1989.5	2066.1	2155.0	2219.2	2232.6	2230.4
80°	831.6	890.2	903.6	967.8	1007.2	1100.5	1217.6	1353.8	1444.9	1455.0	1430.3
82.5°	163.2	174.4	203.7	254.3	346.6	401.8	478.2	573.9	661.7	712.3	682.0
85°	54.0	57.4	66.4	73.2	84.4	95.6	116.0	144.0	179.0	198.0	176.7
87.5°	21.3	21.3	24.8	27.0	29.2	29.2	29.2	27.0	25.9	21.3	19.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	558.1	558.1	558.1	558.1	558.1	558.1	558.1	558.1
2.5°	561.6	561.6	561.6	561.6	561.6	561.6	561.6	561.6
5°	573.9	572.7	572.7	571.7	571.7	571.7	571.7	571.7
7.5°	590.8	589.6	588.5	589.6	588.5	588.5	588.5	588.5
10°	616.7	614.4	613.3	612.1	612.1	612.1	611.1	611.1
12.5°	647.0	647.0	645.9	644.8	642.6	643.7	642.6	640.3
15°	688.7	686.4	685.3	684.1	682.0	682.0	682.0	680.8
17.5°	730.4	728.1	728.1	724.7	723.6	723.6	723.6	724.7
20°	776.5	773.1	770.9	768.6	766.3	767.5	765.2	767.5
22.5°	822.6	818.1	815.9	812.4	809.1	809.1	808.0	805.7
25°	867.7	862.0	859.8	856.4	851.9	851.9	849.6	847.4
27.5°	910.4	904.8	902.5	895.8	891.3	890.2	887.9	886.7
30°	957.6	950.9	947.6	940.7	934.0	932.8	929.5	929.5
32.5°	1007.2	1000.4	998.1	988.1	982.4	982.4	980.1	977.9
35°	1069.0	1059.0	1056.7	1046.5	1038.7	1038.7	1036.4	1037.5
37.5°	1142.2	1134.3	1126.4	1118.5	1109.5	1108.4	1106.2	1103.9
40°	1240.1	1231.1	1222.1	1210.9	1203.0	1200.7	1197.3	1196.2
42.5°	1370.7	1361.7	1343.6	1334.6	1326.7	1320.0	1318.9	1317.7
45°	1537.2	1525.9	1513.6	1496.7	1486.5	1471.9	1469.6	1464.0
47.5°	1737.5	1716.2	1694.7	1680.1	1664.4	1647.5	1644.1	1635.1
50°	1950.2	1933.3	1897.3	1873.7	1848.9	1832.0	1820.7	1817.4
52.5°	2178.7	2147.2	2111.1	2079.6	2043.6	2021.0	2000.8	1995.2
55°	2417.2	2372.2	2327.2	2290.1	2254.0	2227.0	2207.9	2198.9
57.5°	2655.8	2606.2	2556.7	2516.3	2485.8	2451.0	2431.8	2427.4
60°	2904.5	2857.2	2806.5	2766.0	2728.9	2698.5	2687.3	2665.9
62.5°	3167.8	3118.2	3071.0	3031.6	2984.4	2963.0	2943.8	2931.5
65°	3426.6	3369.2	3309.5	3268.0	3220.6	3190.3	3166.6	3149.7
67.5°	3626.9	3540.3	3460.4	3390.6	3326.4	3279.2	3248.8	3233.1
69°	3683.2	3575.1	3472.7	3381.6	3306.2	3253.3	3219.6	3203.8
70°	3676.4	3557.1	3444.6	3344.5	3262.3	3206.0	3173.4	3144.1
72.5°	3468.3	3359.1	3234.2	3125.0	3050.8	2996.7	2964.1	2948.3
75°	2959.6	2886.4	2796.4	2712.0	2658.0	2626.5	2586.0	2587.2
77.5°	2155.0	2157.2	2096.5	2009.8	1949.0	1937.8	1919.8	1901.8
80°	1336.9	1229.9	1160.2	1066.8	998.1	938.5	912.6	856.4
82.5°	616.7	481.7	373.6	282.5	217.2	169.9	148.5	121.6
85°	137.3	104.7	86.6	69.7	59.7	55.1	45.0	41.7
87.5°	19.2	16.9	15.8	14.6	12.3	9.0	6.7	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)