

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: P148114

Luminaire Tested: **AVS-F04-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148114
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-F04-LED-E-U-5WQ-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9602.3 lumens
Efficiency: N/A
Efficacy: 94.0 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): 102.2
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



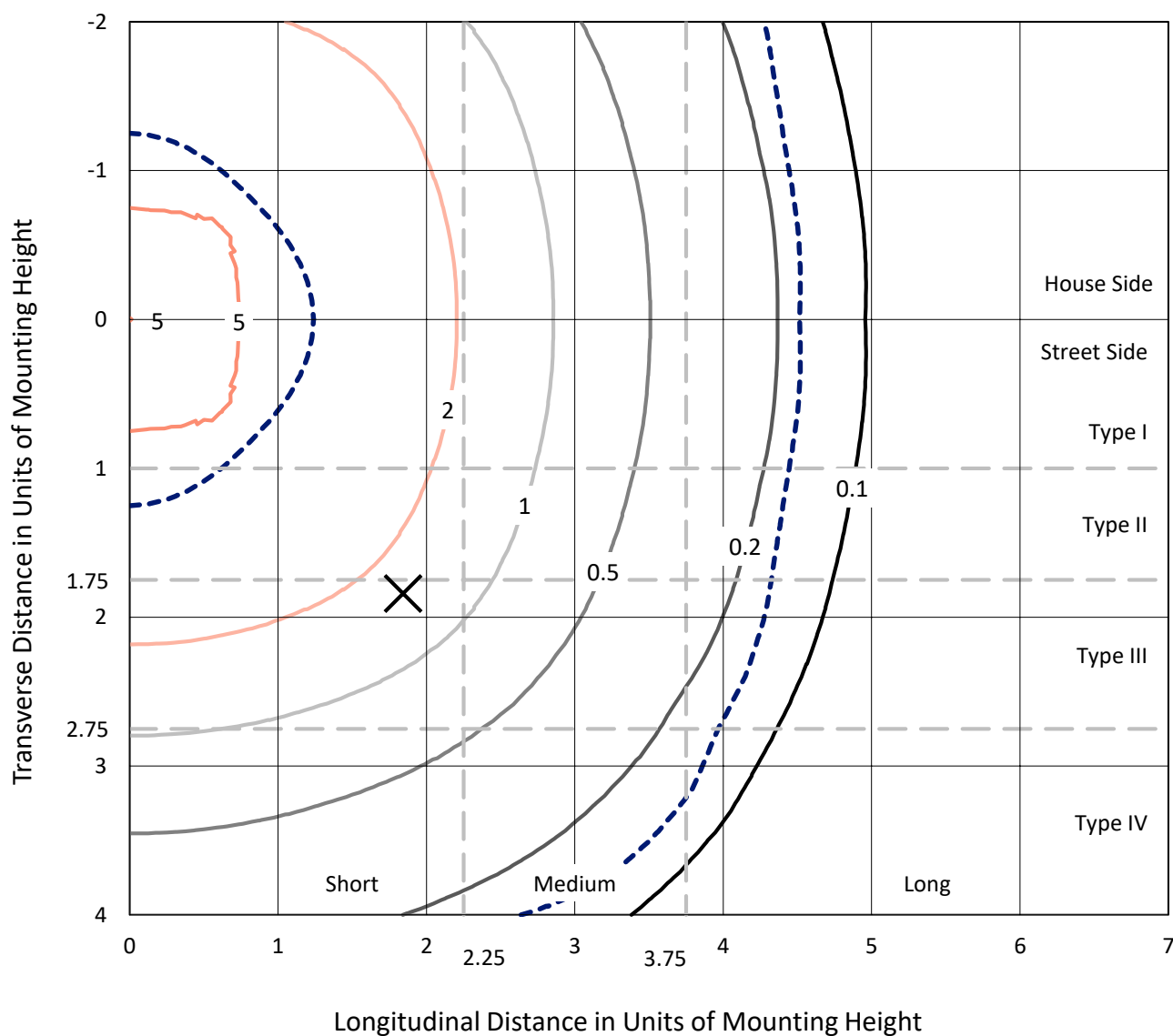
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

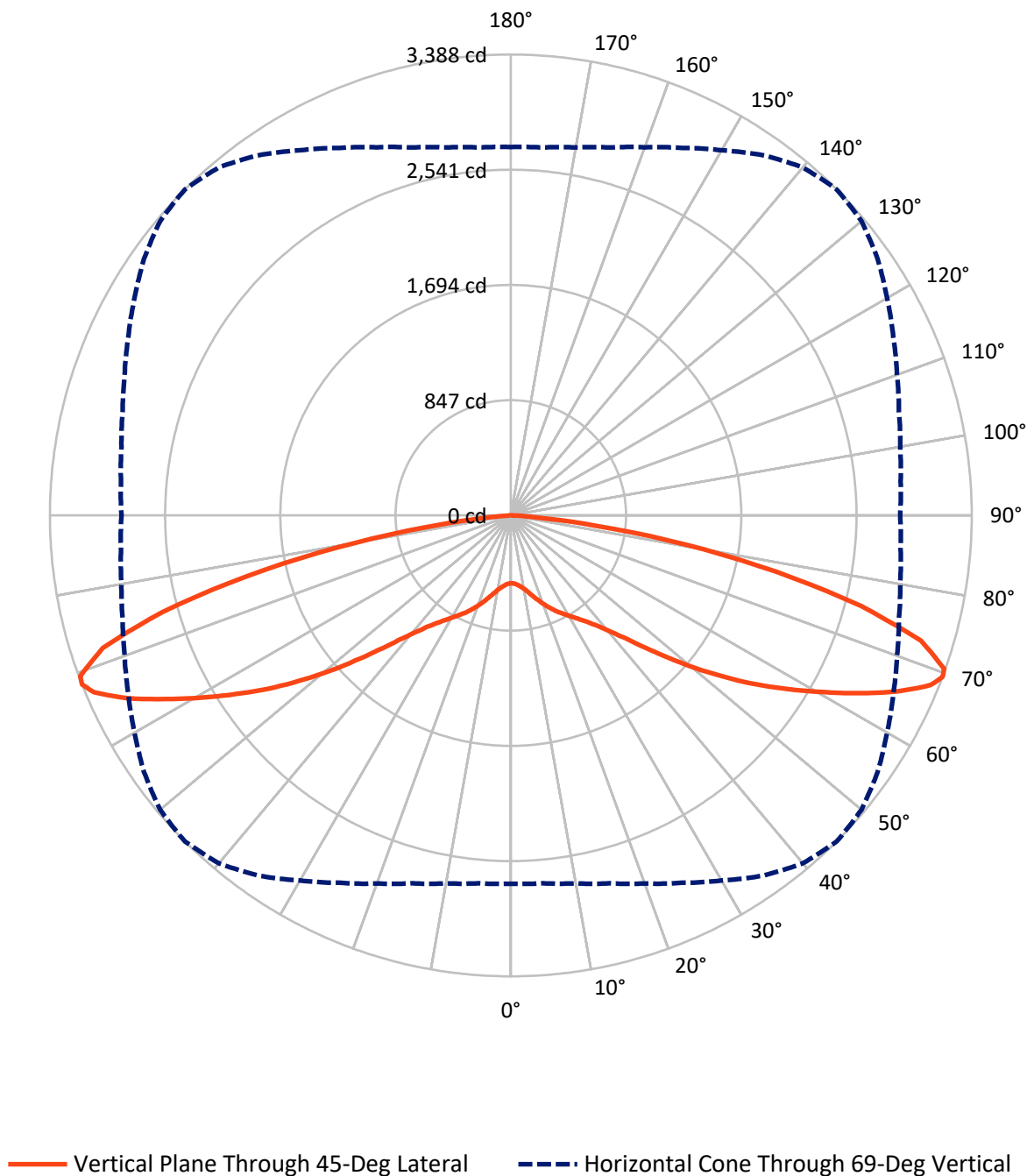


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4801.1	0.0	4801.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4801.1	0.0	4801.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	9602.3	0.0	9602.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	0.5
10°-20°	176.8	1.8
20°-30°	358.0	3.7
30°-40°	600.2	6.3
40°-50°	1058.8	11.0
50°-60°	1867.1	19.4
60°-70°	2850.5	29.7
70°-80°	2381.9	24.8
80°-90°	258.8	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°	9602.3	100.0
0°-180°	9602.3	100.0

Coefficient of Utilization



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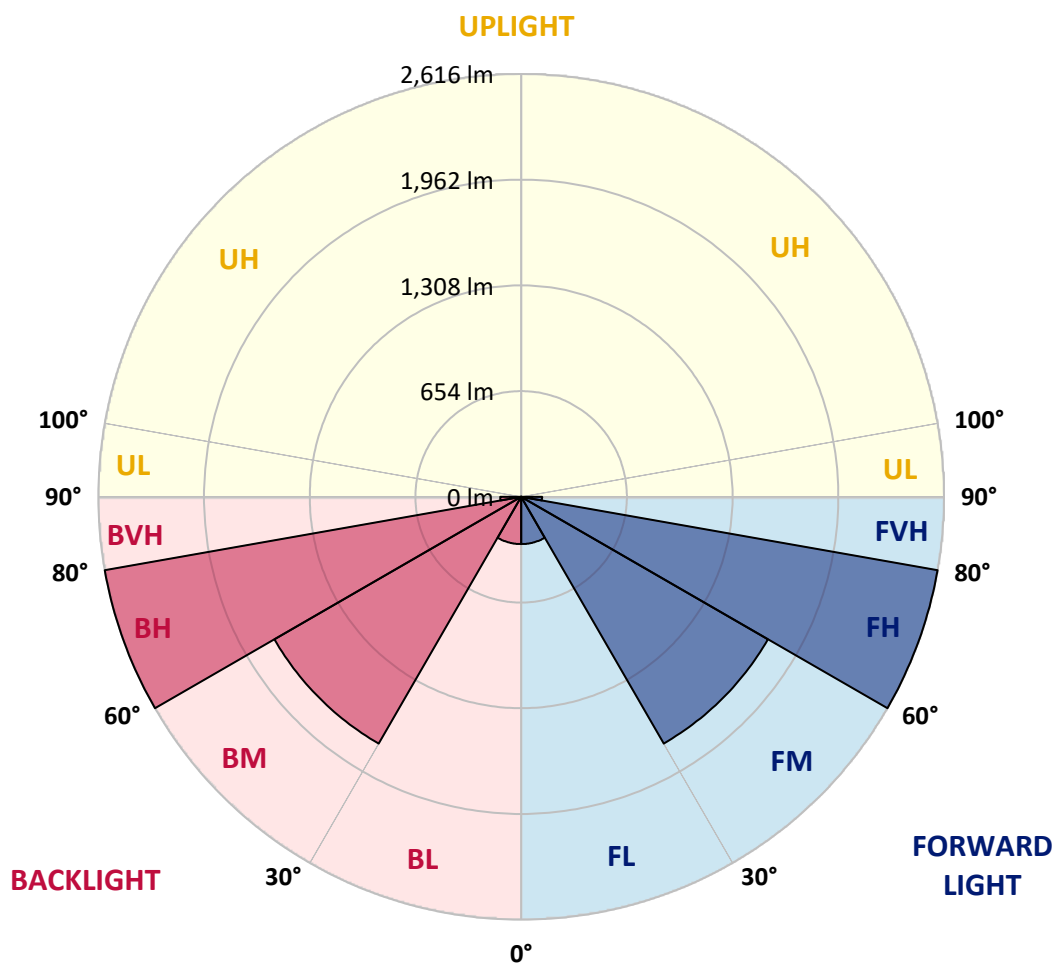
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.4	3.0			
FM	(30°-60°)	1763.1	18.4			
FH	(60°-80°)	2616.2	27.2			G2/5000
FVH	(80°-90°)	129.4	1.3			G2/225
BL	(0°-30°)	292.4	3.0	B1/500		
BM	(30°-60°)	1763.1	18.4	B2/2500		
BH	(60°-80°)	2616.2	27.2	B4/5000		G2/5000
BVH	(80°-90°)	129.4	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°	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7
2.5°	502.7	503.6	502.7	502.7	502.7	502.7	502.7	501.7	501.7	501.7	502.7
5°	512.7	513.7	512.7	513.7	513.7	513.7	513.7	512.7	512.7	512.7	512.7
7.5°	528.8	528.8	528.8	529.8	528.8	528.8	529.8	528.8	528.8	528.8	528.8
10°	551.9	550.9	550.9	550.9	550.9	550.9	551.9	551.9	551.9	550.9	550.9
12.5°	580.1	579.1	580.1	580.1	581.0	581.0	581.0	581.0	581.0	581.0	580.1
15°	614.3	614.3	614.3	615.2	617.3	617.3	616.3	617.3	617.3	617.3	617.3
17.5°	652.4	654.5	652.4	653.5	654.5	653.5	655.4	656.5	657.5	656.5	653.5
20°	691.7	692.6	692.6	692.6	692.6	694.7	695.6	695.6	698.7	697.7	696.7
22.5°	728.9	730.9	730.9	731.9	731.9	734.9	734.9	734.9	736.9	739.0	736.9
25°	768.1	767.0	767.0	769.1	770.1	774.1	774.1	776.1	779.2	780.1	778.1
27.5°	803.2	802.3	802.3	805.3	806.3	811.3	811.3	815.3	817.3	818.3	816.4
30°	840.4	840.4	839.5	842.5	845.5	849.5	851.5	855.5	858.5	859.6	857.5
32.5°	884.7	882.7	883.7	885.7	887.7	891.7	894.7	899.8	903.8	904.8	902.8
35°	934.9	931.9	933.0	934.9	937.9	944.0	949.0	952.0	958.0	960.1	956.1
37.5°	990.3	991.3	990.3	995.2	1000.3	1007.4	1013.4	1017.4	1023.4	1026.4	1023.4
40°	1068.7	1065.6	1068.7	1073.7	1081.8	1090.8	1102.8	1105.9	1111.9	1117.9	1110.9
42.5°	1170.2	1168.2	1175.2	1179.3	1188.3	1198.3	1213.5	1221.5	1230.5	1234.5	1228.5
45°	1302.9	1302.9	1311.0	1311.9	1326.0	1339.1	1360.2	1370.3	1387.4	1387.4	1387.4
47.5°	1449.6	1455.8	1460.7	1470.8	1480.8	1505.0	1526.1	1548.2	1564.2	1566.3	1563.3
50°	1601.5	1607.6	1622.6	1636.7	1658.8	1688.9	1712.0	1741.2	1755.3	1767.4	1763.3
52.5°	1769.3	1770.4	1788.5	1806.5	1838.8	1871.9	1909.1	1939.3	1964.5	1975.4	1966.4
55°	1953.4	1955.3	1971.4	1990.6	2026.7	2065.0	2111.2	2142.4	2174.5	2194.6	2179.6
57.5°	2152.4	2153.4	2169.5	2192.6	2235.9	2274.1	2318.2	2362.5	2392.6	2410.8	2400.7
60°	2372.5	2377.6	2389.6	2418.9	2460.0	2500.2	2544.5	2583.7	2618.9	2637.9	2627.9
62.5°	2607.8	2612.8	2629.9	2653.1	2689.2	2733.5	2775.8	2826.0	2855.1	2876.3	2861.1
65°	2765.7	2774.7	2801.9	2833.0	2886.3	2943.6	2992.8	3061.2	3096.4	3121.6	3107.5
67.5°	2775.8	2780.7	2813.9	2861.1	2932.5	3019.0	3119.5	3226.1	3295.4	3328.6	3304.5
69°	2707.4	2714.4	2746.5	2799.8	2879.3	2979.8	3099.4	3232.1	3338.7	3388.0	3364.9
70°	2629.9	2645.0	2680.2	2738.5	2816.0	2921.5	3045.1	3186.8	3311.5	3378.9	3361.8
72.5°	2467.0	2471.1	2494.2	2540.4	2599.8	2687.3	2803.8	2937.5	3056.2	3152.7	3166.7
75°	2189.6	2202.7	2219.8	2250.9	2281.0	2344.5	2422.8	2514.3	2583.7	2658.0	2661.1
77.5°	1654.7	1694.0	1707.0	1714.1	1727.2	1777.4	1845.8	1925.2	1982.5	1994.6	1992.5
80°	742.9	795.2	807.3	864.6	899.8	983.2	1087.8	1209.4	1290.9	1299.9	1277.7
82.5°	145.8	155.9	182.0	227.3	309.6	358.9	427.3	512.7	591.1	636.4	609.2
85°	48.3	51.3	59.3	65.4	75.4	85.5	103.5	128.7	159.9	176.9	157.8
87.5°	19.1	19.1	22.1	24.1	26.1	26.1	26.1	24.1	23.1	19.1	17.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	498.7	498.7	498.7	498.7	498.7	498.7	498.7	498.7
2.5°	501.7	501.7	501.7	501.7	501.7	501.7	501.7	501.7
5°	512.7	511.7	511.7	510.7	510.7	510.7	510.7	510.7
7.5°	527.8	526.8	525.8	526.8	525.8	525.8	525.8	525.8
10°	550.9	548.9	547.9	546.9	546.9	546.9	545.9	545.9
12.5°	578.0	578.0	577.1	576.1	574.0	575.0	574.0	572.0
15°	615.2	613.3	612.2	611.2	609.2	609.2	609.2	608.2
17.5°	652.4	650.5	650.5	647.5	646.4	646.4	646.4	647.5
20°	693.7	690.7	688.6	686.6	684.7	685.6	683.6	685.6
22.5°	734.9	730.9	728.9	725.8	722.8	722.8	721.9	719.8
25°	775.1	770.1	768.1	765.1	761.0	761.0	759.1	757.0
27.5°	813.3	808.3	806.3	800.2	796.2	795.2	793.2	792.2
30°	855.5	849.5	846.5	840.4	834.4	833.4	830.4	830.4
32.5°	899.8	893.8	891.7	882.7	877.6	877.6	875.6	873.7
35°	955.0	946.0	944.0	934.9	927.9	927.9	925.9	926.9
37.5°	1020.4	1013.4	1006.3	999.3	991.3	990.3	988.2	986.2
40°	1107.9	1099.8	1091.8	1081.8	1074.7	1072.6	1069.6	1068.7
42.5°	1224.5	1216.5	1200.3	1192.3	1185.3	1179.3	1178.2	1177.2
45°	1373.3	1363.2	1352.1	1337.1	1328.1	1314.9	1313.0	1307.9
47.5°	1552.2	1533.2	1514.0	1500.9	1486.8	1471.8	1468.8	1460.7
50°	1742.2	1727.2	1695.0	1673.9	1651.7	1636.7	1626.6	1623.6
52.5°	1946.3	1918.1	1886.0	1857.8	1825.7	1805.6	1787.5	1782.5
55°	2159.5	2119.3	2079.0	2045.8	2013.7	1989.5	1972.4	1964.5
57.5°	2372.5	2328.3	2284.1	2247.9	2220.7	2189.6	2172.5	2168.5
60°	2594.7	2552.5	2507.3	2471.1	2437.9	2410.8	2400.7	2381.7
62.5°	2829.9	2785.8	2743.5	2708.4	2666.1	2647.0	2629.9	2618.9
65°	3061.2	3009.9	2956.7	2919.5	2877.2	2850.1	2829.0	2813.9
67.5°	3240.2	3162.8	3091.4	3029.0	2971.7	2929.5	2902.4	2888.3
69°	3290.5	3193.9	3102.4	3021.0	2953.7	2906.4	2876.3	2862.2
70°	3284.4	3177.8	3077.3	2987.9	2914.4	2864.1	2835.0	2808.9
72.5°	3098.4	3000.9	2889.3	2791.8	2725.4	2677.2	2648.0	2634.0
75°	2644.0	2578.7	2498.2	2422.8	2374.6	2346.4	2310.3	2311.2
77.5°	1925.2	1927.3	1873.0	1795.5	1741.2	1731.2	1715.1	1699.0
80°	1194.3	1098.9	1036.5	953.1	891.7	838.4	815.3	765.1
82.5°	550.9	430.3	333.8	252.3	194.0	151.8	132.7	108.6
85°	122.7	93.5	77.4	62.3	53.3	49.2	40.2	37.2
87.5°	17.1	15.1	14.1	13.1	11.1	8.1	6.0	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)