

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: P148109

Luminaire Tested: **AVS-E04-LED-E-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P148109
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-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11631.7 lumens
Efficiency: N/A
Efficacy: 119.7 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



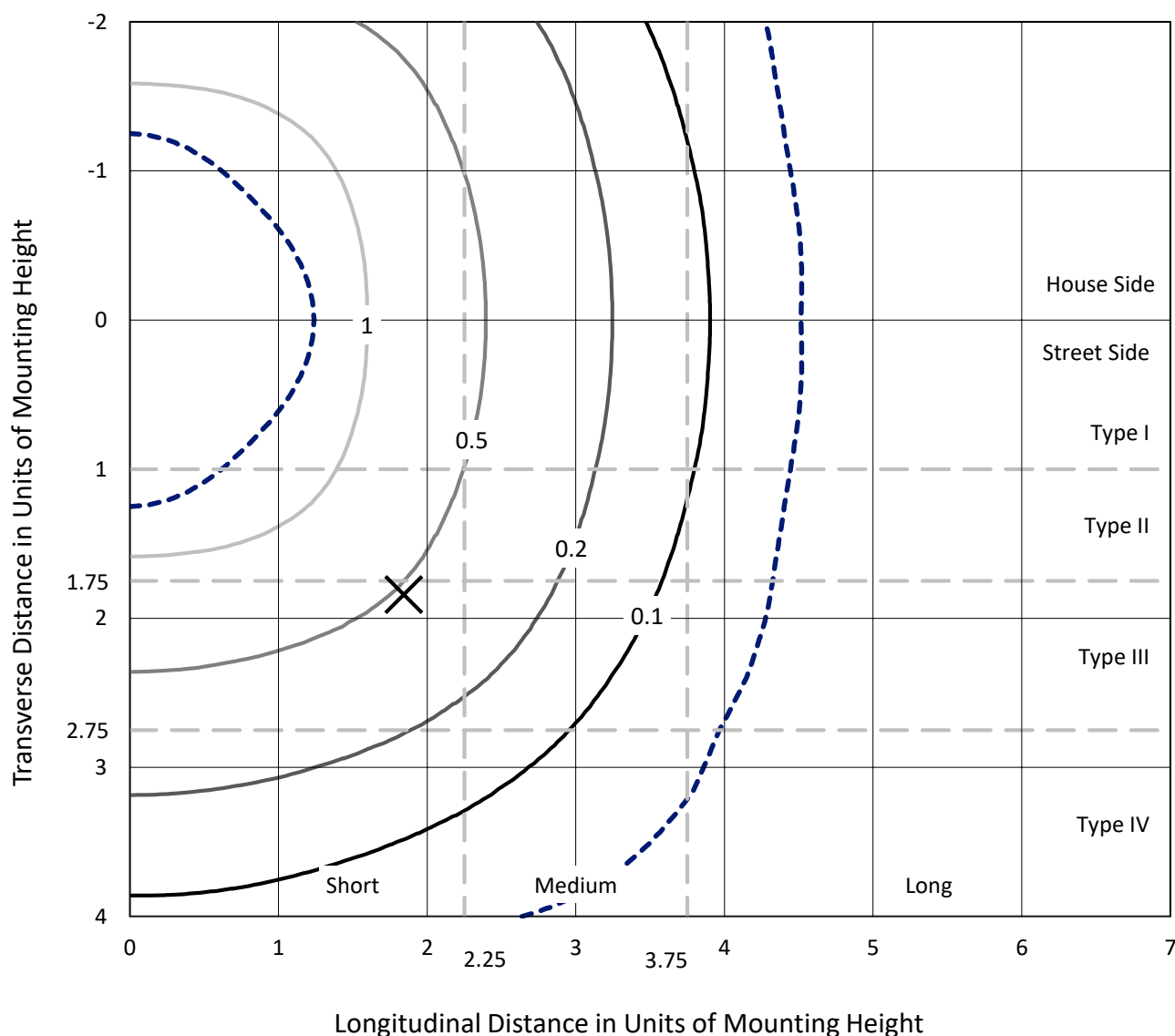
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



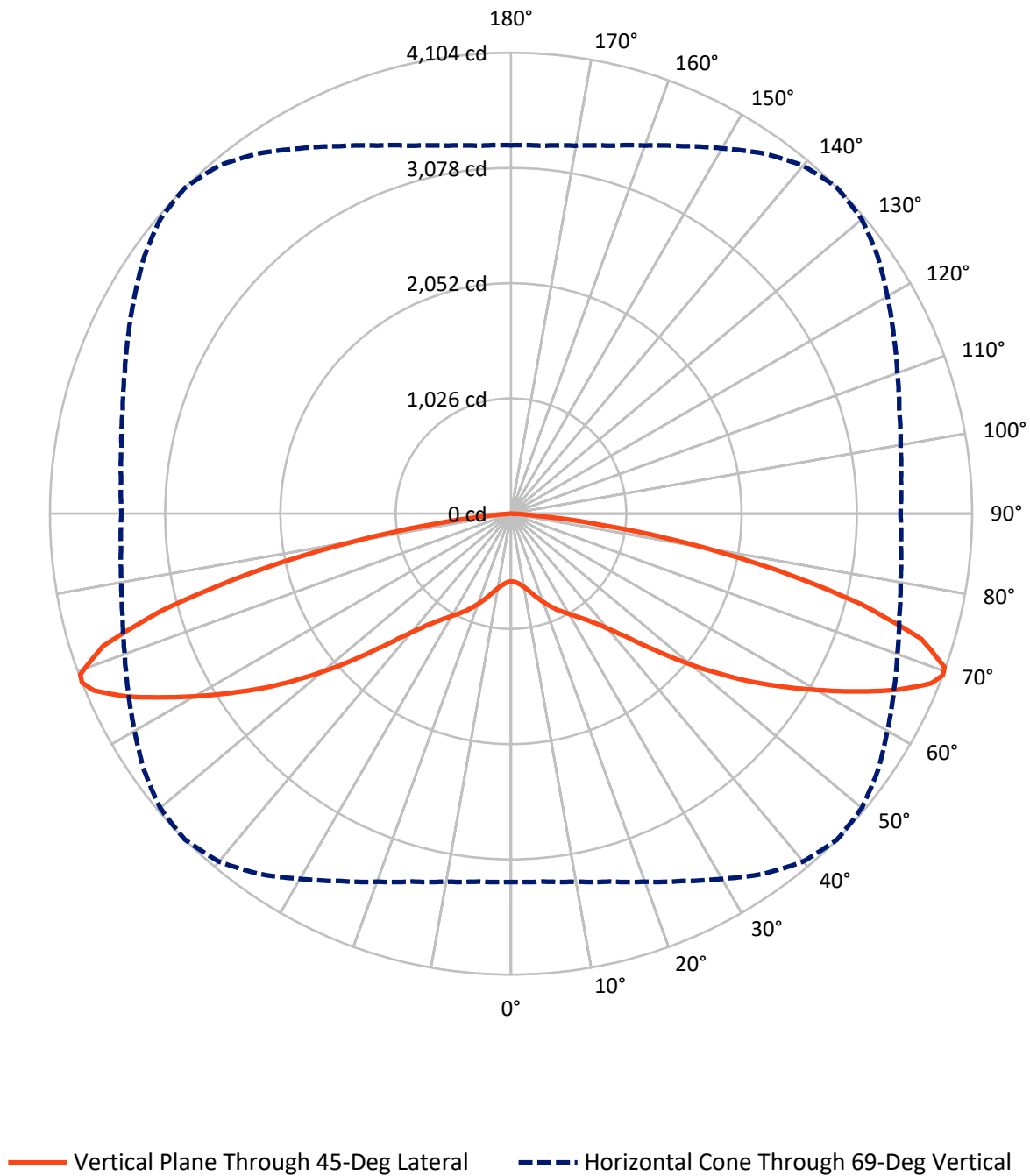
Based on 20 foot mounting height. Maximum calculated value = 1.8 fc

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	5815.8	0.0	5815.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5815.8	0.0	5815.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	11631.7	0.0	11631.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.7	0.5
10°-20°	214.2	1.8
20°-30°	433.7	3.7
30°-40°	727.1	6.3
40°-50°	1282.5	11.0
50°-60°	2261.7	19.4
60°-70°	3453.0	29.7
70°-80°	2885.3	24.8
80°-90°	313.5	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°	11631.7	100.0
0°-180°	11631.7	100.0

Coefficient of Utilization



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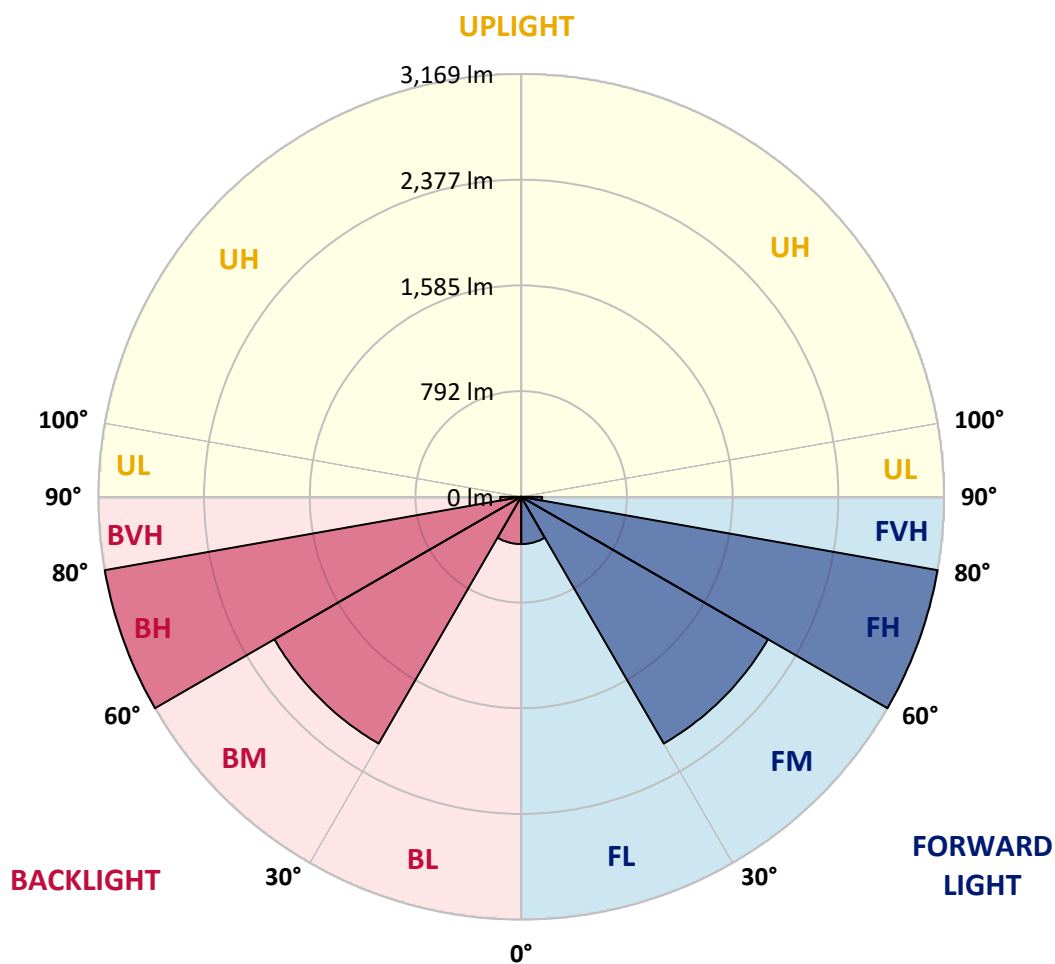
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	354.3	3.0			
FM	(30°-60°)	2135.7	18.4			
FH	(60°-80°)	3169.2	27.2			G2/5000
FVH	(80°-90°)	156.8	1.3			G2/225
BL	(0°-30°)	354.3	3.0	B1/500		
BM	(30°-60°)	2135.7	18.4	B2/2500		
BH	(60°-80°)	3169.2	27.2	B4/5000		G2/5000
BVH	(80°-90°)	156.8	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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	608.9	610.2	608.9	608.9	608.9	608.9	608.9	607.7	607.7	607.7	608.9
5°	621.0	622.3	621.0	622.3	622.3	622.3	622.3	621.0	621.0	621.0	621.0
7.5°	640.5	640.5	640.5	641.8	640.5	640.5	641.8	640.5	640.5	640.5	640.5
10°	668.6	667.4	667.4	667.4	667.4	667.4	668.6	668.6	668.6	667.4	667.4
12.5°	702.7	701.5	702.7	702.7	703.9	703.9	703.9	703.9	703.9	703.9	702.7
15°	744.0	744.0	744.0	745.3	747.8	747.8	746.5	747.8	747.8	747.8	747.8
17.5°	790.4	792.7	790.4	791.6	792.7	791.6	794.0	795.2	796.5	795.2	791.6
20°	837.8	839.1	839.1	839.1	839.1	841.5	842.7	842.7	846.3	845.2	843.9
22.5°	882.9	885.4	885.4	886.5	886.5	890.3	890.3	890.3	892.6	895.1	892.6
25°	930.4	929.2	929.2	931.6	932.8	937.7	937.7	940.1	943.8	945.0	942.6
27.5°	973.1	971.8	971.8	975.4	976.7	982.8	982.8	987.7	990.1	991.3	988.8
30°	1018.0	1018.0	1016.9	1020.5	1024.1	1029.0	1031.5	1036.4	1040.0	1041.2	1038.8
32.5°	1071.7	1069.2	1070.5	1072.8	1075.3	1080.2	1083.8	1089.9	1094.8	1096.1	1093.6
35°	1132.5	1128.9	1130.2	1132.5	1136.2	1143.5	1149.6	1153.3	1160.5	1163.0	1158.1
37.5°	1199.5	1200.7	1199.5	1205.6	1211.7	1220.2	1227.6	1232.4	1239.7	1243.4	1239.7
40°	1294.5	1290.9	1294.5	1300.6	1310.4	1321.3	1336.0	1339.6	1346.8	1354.2	1345.7
42.5°	1417.5	1415.1	1423.6	1428.5	1439.5	1451.6	1469.8	1479.6	1490.6	1495.4	1488.2
45°	1578.2	1578.2	1588.0	1589.2	1606.3	1622.1	1647.7	1659.9	1680.5	1680.5	1680.5
47.5°	1756.1	1763.4	1769.4	1781.7	1793.8	1823.0	1848.6	1875.4	1894.9	1897.3	1893.7
50°	1940.0	1947.3	1965.5	1982.6	2009.3	2045.9	2073.9	2109.2	2126.3	2140.9	2136.1
52.5°	2143.3	2144.6	2166.4	2188.4	2227.4	2267.6	2312.6	2349.1	2379.6	2393.0	2382.0
55°	2366.2	2368.6	2388.1	2411.3	2455.1	2501.3	2557.4	2595.1	2634.1	2658.4	2640.2
57.5°	2607.4	2608.5	2628.0	2656.1	2708.4	2754.7	2808.3	2861.9	2898.3	2920.3	2908.1
60°	2874.0	2880.1	2894.7	2930.1	2980.0	3028.7	3082.3	3129.7	3172.3	3195.5	3183.3
62.5°	3159.0	3165.1	3185.8	3213.8	3257.6	3311.2	3362.4	3423.2	3458.5	3484.1	3465.9
65°	3350.2	3361.1	3394.0	3431.8	3496.3	3565.7	3625.4	3708.2	3750.8	3781.2	3764.2
67.5°	3362.4	3368.4	3408.6	3465.9	3552.3	3657.1	3778.9	3907.9	3991.9	4032.1	4002.9
69°	3279.6	3288.1	3327.0	3391.6	3487.8	3609.5	3754.5	3915.2	4044.4	4103.9	4076.0
70°	3185.8	3204.0	3246.6	3317.3	3411.1	3539.0	3688.7	3860.4	4011.4	4093.1	4072.3
72.5°	2988.5	2993.4	3021.3	3077.4	3149.2	3255.1	3396.5	3558.4	3702.1	3819.1	3836.1
75°	2652.3	2668.2	2688.9	2726.6	2763.2	2839.9	2934.9	3045.7	3129.7	3219.9	3223.5
77.5°	2004.5	2052.0	2067.9	2076.4	2092.2	2153.1	2235.9	2332.1	2401.5	2416.2	2413.7
80°	900.0	963.3	977.9	1047.4	1089.9	1191.0	1317.6	1465.0	1563.6	1574.6	1547.9
82.5°	176.6	188.8	220.4	275.2	375.1	434.7	517.6	621.0	716.1	770.9	738.0
85°	58.4	62.1	71.8	79.2	91.3	103.5	125.4	155.9	193.7	214.3	191.2
87.5°	23.1	23.1	26.8	29.2	31.7	31.7	31.7	29.2	28.0	23.1	20.7
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°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	607.7	607.7	607.7	607.7	607.7	607.7	607.7	607.7
5°	621.0	619.9	619.9	618.7	618.7	618.7	618.7	618.7
7.5°	639.4	638.1	636.9	638.1	636.9	636.9	636.9	636.9
10°	667.4	664.9	663.7	662.5	662.5	662.5	661.2	661.2
12.5°	700.2	700.2	699.1	697.8	695.3	696.6	695.3	693.0
15°	745.3	742.9	741.7	740.4	738.0	738.0	738.0	736.8
17.5°	790.4	787.9	787.9	784.2	783.0	783.0	783.0	784.2
20°	840.3	836.6	834.2	831.7	829.3	830.6	828.1	830.6
22.5°	890.3	885.4	882.9	879.3	875.6	875.6	874.4	871.9
25°	939.0	932.8	930.4	926.7	921.9	921.9	919.5	917.0
27.5°	985.2	979.1	976.7	969.3	964.5	963.3	960.8	959.6
30°	1036.4	1029.0	1025.4	1018.0	1010.8	1009.5	1005.9	1005.9
32.5°	1089.9	1082.6	1080.2	1069.2	1063.1	1063.1	1060.7	1058.2
35°	1156.9	1145.9	1143.5	1132.5	1124.0	1124.0	1121.6	1122.8
37.5°	1236.1	1227.6	1219.1	1210.5	1200.7	1199.5	1197.1	1194.6
40°	1342.0	1332.2	1322.5	1310.4	1301.9	1299.4	1295.8	1294.5
42.5°	1483.3	1473.6	1454.1	1444.4	1435.8	1428.5	1427.3	1426.0
45°	1663.5	1651.3	1637.9	1619.7	1608.7	1592.8	1590.5	1584.4
47.5°	1880.3	1857.1	1834.0	1818.1	1801.1	1782.9	1779.2	1769.4
50°	2110.5	2092.2	2053.2	2027.7	2000.8	1982.6	1970.4	1966.7
52.5°	2357.6	2323.5	2284.6	2250.5	2211.5	2187.2	2165.3	2159.2
55°	2615.9	2567.2	2518.4	2478.2	2439.3	2410.1	2389.3	2379.6
57.5°	2874.0	2820.4	2766.8	2723.0	2690.2	2652.3	2631.7	2626.8
60°	3143.1	3092.0	3037.2	2993.4	2953.2	2920.3	2908.1	2885.0
62.5°	3428.1	3374.5	3323.4	3280.7	3229.6	3206.4	3185.8	3172.3
65°	3708.2	3646.1	3581.6	3536.5	3485.4	3452.4	3426.8	3408.6
67.5°	3925.0	3831.2	3744.8	3669.2	3599.8	3548.7	3515.8	3498.8
69°	3985.9	3868.9	3758.1	3659.5	3577.9	3520.6	3484.1	3467.0
70°	3978.5	3849.4	3727.7	3619.3	3530.4	3469.5	3434.2	3402.5
72.5°	3753.3	3635.1	3500.0	3381.9	3301.5	3243.0	3207.7	3190.7
75°	3202.8	3123.6	3026.2	2934.9	2876.5	2842.4	2798.5	2799.7
77.5°	2332.1	2334.5	2268.8	2175.0	2109.2	2097.1	2077.6	2058.0
80°	1446.7	1331.1	1255.5	1154.5	1080.2	1015.6	987.7	926.7
82.5°	667.4	521.2	404.4	305.7	235.0	183.9	160.7	131.5
85°	148.6	113.3	93.8	75.5	64.6	59.7	48.7	45.1
87.5°	20.7	18.2	17.1	15.9	13.4	9.7	7.4	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)