

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: P148005

Luminaire Tested: **TMU-F05-LED-E-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148005  
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: TMU-F05-LED-E-U-5WQ  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (35) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13141.5 lumens  
Efficiency: N/A  
Efficacy: 98.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 133.3  
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

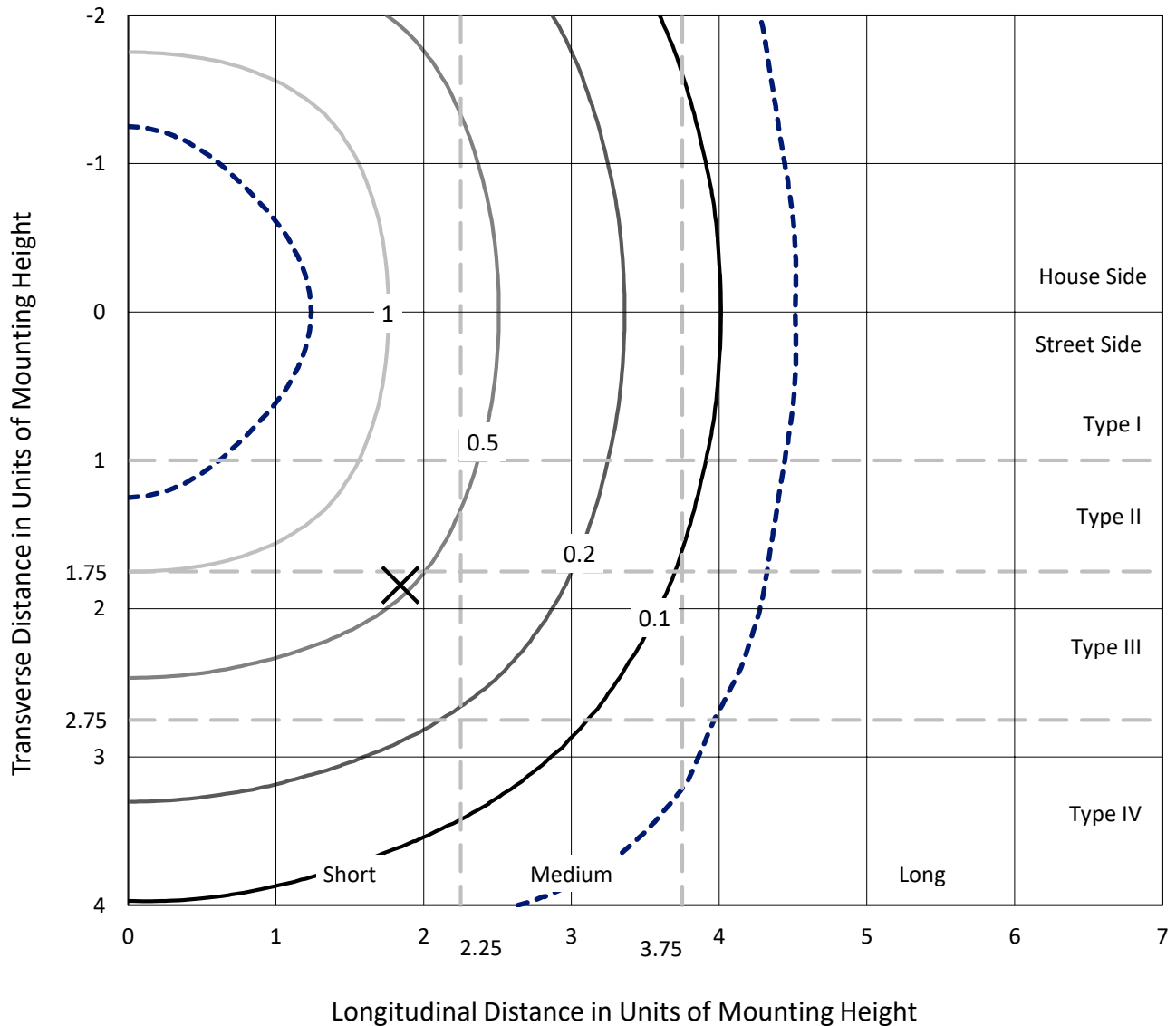


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

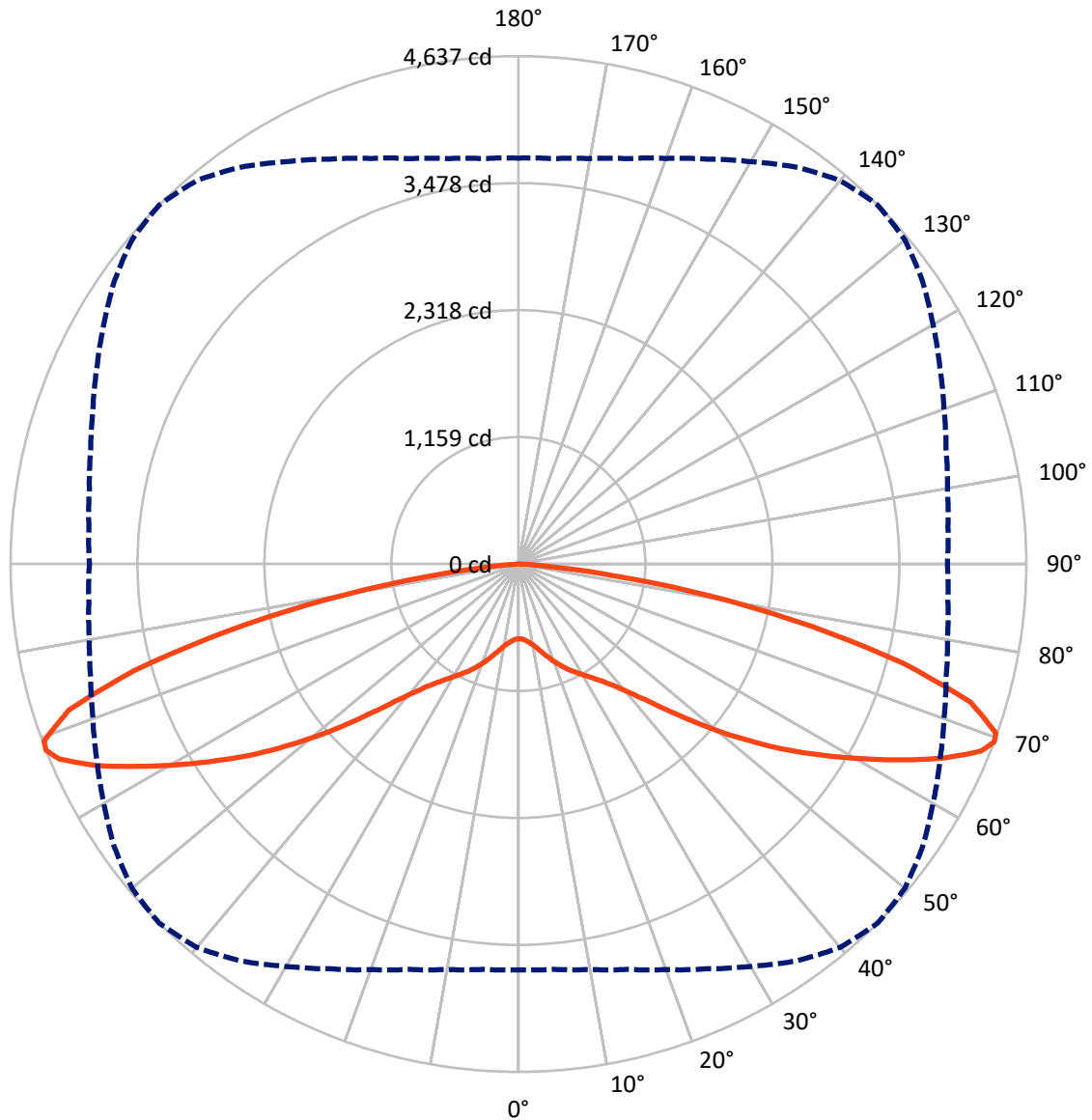


Based on 20 foot mounting height. Maximum calculated value = 2 fc  
 Type V - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	6570.8	0.0	6570.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6570.8	0.0	6570.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13141.5	0.0	13141.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	0.5
10°-20°	242.0	1.8
20°-30°	490.0	3.7
30°-40°	821.5	6.3
40°-50°	1449.0	11.0
50°-60°	2555.3	19.4
60°-70°	3901.2	29.7
70°-80°	3259.9	24.8
80°-90°	354.2	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°	13141.5	100.0
0°-180°	13141.5	100.0



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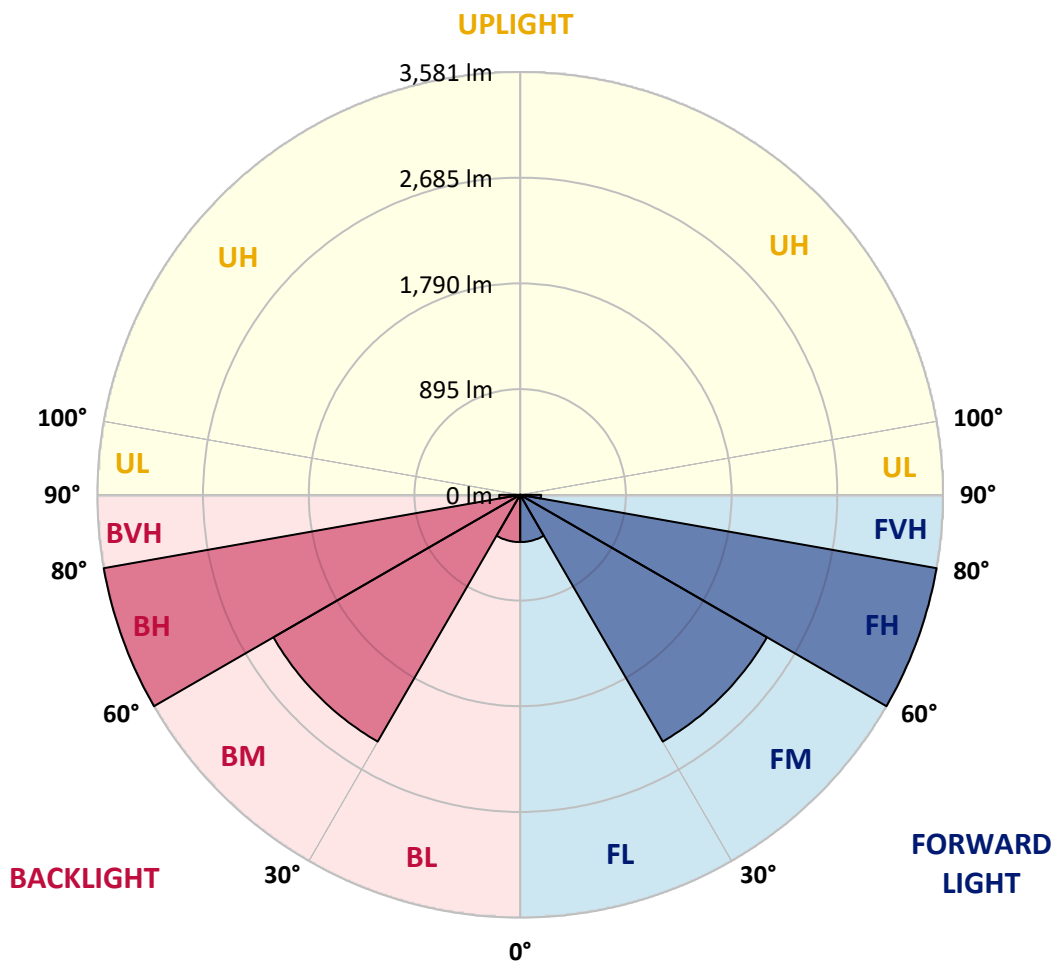
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.2	3.0			
FM	(30°-60°)	2412.9	18.4			
FH	(60°-80°)	3580.5	27.2			G2/5000
FVH	(80°-90°)	177.1	1.3			G2/225
BL	(0°-30°)	400.2	3.0	B1/500		
BM	(30°-60°)	2412.9	18.4	B2/2500		
BH	(60°-80°)	3580.5	27.2	B4/5000		G2/5000
BVH	(80°-90°)	177.1	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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	687.9	689.3	687.9	687.9	687.9	687.9	687.9	686.6	686.6	686.6	687.9
5°	701.7	703.1	701.7	703.1	703.1	703.1	703.1	701.7	701.7	701.7	701.7
7.5°	723.7	723.7	723.7	725.1	723.7	723.7	725.1	723.7	723.7	723.7	723.7
10°	755.4	754.0	754.0	754.0	754.0	754.0	755.4	755.4	755.4	754.0	754.0
12.5°	793.9	792.5	793.9	793.9	795.3	795.3	795.3	795.3	795.3	795.3	793.9
15°	840.7	840.7	840.7	842.0	844.8	844.8	843.4	844.8	844.8	844.8	844.8
17.5°	892.9	895.7	892.9	894.3	895.7	894.3	897.1	898.4	899.8	898.4	894.3
20°	946.6	948.0	948.0	948.0	948.0	950.7	952.1	952.1	956.2	954.9	953.5
22.5°	997.5	1000.3	1000.3	1001.6	1001.6	1005.8	1005.8	1005.8	1008.5	1011.3	1008.5
25°	1051.2	1049.8	1049.8	1052.5	1053.9	1059.4	1059.4	1062.2	1066.3	1067.7	1064.9
27.5°	1099.3	1097.9	1097.9	1102.1	1103.5	1110.3	1110.3	1115.8	1118.6	1120.0	1117.2
30°	1150.2	1150.2	1148.9	1153.0	1157.1	1162.6	1165.4	1170.9	1175.0	1176.4	1173.6
32.5°	1210.8	1208.0	1209.4	1212.1	1214.9	1220.4	1224.5	1231.4	1236.9	1238.3	1235.5
35°	1279.6	1275.4	1276.8	1279.6	1283.7	1291.9	1298.8	1303.0	1311.2	1314.0	1308.5
37.5°	1355.2	1356.6	1355.2	1362.1	1369.0	1378.6	1386.9	1392.4	1400.6	1404.8	1400.6
40°	1462.6	1458.4	1462.6	1469.4	1480.4	1492.8	1509.3	1513.5	1521.7	1530.0	1520.3
42.5°	1601.5	1598.8	1608.4	1613.9	1626.3	1640.0	1660.7	1671.7	1684.1	1689.6	1681.3
45°	1783.1	1783.1	1794.1	1795.5	1814.8	1832.7	1861.6	1875.3	1898.7	1898.7	1898.7
47.5°	1984.0	1992.3	1999.1	2012.9	2026.7	2059.7	2088.6	2118.8	2140.9	2143.6	2139.5
50°	2191.8	2200.0	2220.7	2239.9	2270.2	2311.5	2343.1	2383.0	2402.3	2418.8	2413.3
52.5°	2421.5	2422.9	2447.7	2472.4	2516.5	2561.9	2612.8	2654.1	2688.5	2703.6	2691.2
55°	2673.3	2676.1	2698.1	2724.2	2773.8	2826.0	2889.3	2932.0	2976.0	3003.5	2982.9
57.5°	2945.7	2947.1	2969.1	3000.8	3059.9	3112.2	3172.8	3233.3	3274.6	3299.3	3285.6
60°	3247.1	3253.9	3270.5	3310.4	3366.8	3421.8	3482.3	3536.0	3584.2	3610.3	3596.5
62.5°	3569.0	3575.9	3599.3	3630.9	3680.5	3741.0	3798.8	3867.6	3907.5	3936.4	3915.7
65°	3785.0	3797.4	3834.6	3877.2	3950.1	4028.6	4096.0	4189.5	4237.7	4272.1	4252.8
67.5°	3798.8	3805.7	3851.1	3915.7	4013.4	4131.8	4269.3	4415.2	4510.1	4555.5	4522.5
69°	3705.2	3714.9	3758.9	3831.8	3940.5	4078.1	4241.8	4423.4	4569.3	4636.7	4605.1
70°	3599.3	3619.9	3668.1	3747.9	3853.8	3998.3	4167.5	4361.5	4532.1	4624.3	4600.9
72.5°	3376.4	3381.9	3413.5	3476.8	3558.0	3677.7	3837.3	4020.3	4182.7	4314.7	4334.0
75°	2996.7	3014.5	3037.9	3080.6	3121.9	3208.5	3315.9	3441.1	3536.0	3637.8	3641.9
77.5°	2264.7	2318.3	2336.2	2345.9	2363.8	2432.5	2526.1	2634.8	2713.2	2729.7	2727.0
80°	1016.8	1088.3	1104.8	1183.3	1231.4	1345.6	1488.7	1655.2	1766.6	1779.0	1748.7
82.5°	199.5	213.3	249.0	310.9	423.8	491.2	584.7	701.7	809.0	870.9	833.8
85°	66.0	70.2	81.2	89.4	103.2	116.9	141.7	176.1	218.8	242.2	216.0
87.5°	26.1	26.1	30.3	33.0	35.8	35.8	35.8	33.0	31.6	26.1	23.4
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°	682.4	682.4	682.4	682.4	682.4	682.4	682.4	682.4
2.5°	686.6	686.6	686.6	686.6	686.6	686.6	686.6	686.6
5°	701.7	700.3	700.3	698.9	698.9	698.9	698.9	698.9
7.5°	722.3	721.0	719.6	721.0	719.6	719.6	719.6	719.6
10°	754.0	751.2	749.9	748.5	748.5	748.5	747.1	747.1
12.5°	791.1	791.1	789.8	788.4	785.6	787.0	785.6	782.9
15°	842.0	839.3	837.9	836.5	833.8	833.8	833.8	832.4
17.5°	892.9	890.2	890.2	886.1	884.7	884.7	884.7	886.1
20°	949.4	945.2	942.5	939.7	937.0	938.3	935.6	938.3
22.5°	1005.8	1000.3	997.5	993.4	989.3	989.3	987.9	985.1
25°	1060.8	1053.9	1051.2	1047.0	1041.5	1041.5	1038.8	1036.0
27.5°	1113.1	1106.2	1103.5	1095.2	1089.7	1088.3	1085.6	1084.2
30°	1170.9	1162.6	1158.5	1150.2	1142.0	1140.6	1136.5	1136.5
32.5°	1231.4	1223.2	1220.4	1208.0	1201.1	1201.1	1198.4	1195.6
35°	1307.1	1294.7	1291.9	1279.6	1269.9	1269.9	1267.2	1268.6
37.5°	1396.5	1386.9	1377.3	1367.6	1356.6	1355.2	1352.5	1349.7
40°	1516.2	1505.2	1494.2	1480.4	1470.8	1468.1	1463.9	1462.6
42.5°	1675.8	1664.8	1642.8	1631.8	1622.2	1613.9	1612.5	1611.1
45°	1879.4	1865.7	1850.6	1829.9	1817.5	1799.6	1796.9	1790.0
47.5°	2124.4	2098.2	2072.1	2054.2	2034.9	2014.3	2010.2	1999.1
50°	2384.4	2363.8	2319.7	2290.8	2260.6	2239.9	2226.2	2222.0
52.5°	2663.7	2625.2	2581.1	2542.6	2498.6	2471.1	2446.3	2439.4
55°	2955.4	2900.3	2845.3	2799.9	2755.9	2722.9	2699.5	2688.5
57.5°	3247.1	3186.5	3126.0	3076.5	3039.3	2996.7	2973.3	2967.8
60°	3551.1	3493.3	3431.4	3381.9	3336.5	3299.3	3285.6	3259.4
62.5°	3873.1	3812.5	3754.8	3706.6	3648.8	3622.7	3599.3	3584.2
65°	4189.5	4119.4	4046.4	3995.5	3937.8	3900.6	3871.7	3851.1
67.5°	4434.4	4328.5	4230.8	4145.5	4067.1	4009.3	3972.2	3952.9
69°	4503.2	4371.2	4245.9	4134.5	4042.3	3977.7	3936.4	3917.1
70°	4495.0	4349.1	4211.6	4089.1	3988.7	3919.9	3880.0	3844.2
72.5°	4240.4	4107.0	3954.3	3820.8	3730.0	3664.0	3624.1	3604.8
75°	3618.6	3529.1	3419.0	3315.9	3249.8	3211.3	3161.8	3163.1
77.5°	2634.8	2637.6	2563.3	2457.3	2383.0	2369.3	2347.2	2325.2
80°	1634.5	1503.8	1418.5	1304.3	1220.4	1147.5	1115.8	1047.0
82.5°	754.0	588.9	456.8	345.3	265.5	207.8	181.6	148.6
85°	167.9	128.0	105.9	85.3	72.9	67.4	55.0	50.9
87.5°	23.4	20.6	19.3	17.9	15.1	11.0	8.3	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)