

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: P147960

Luminaire Tested: **TMU-E01-LED-E-U-5WQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147960  
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-E01-LED-E-U-5WQ  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3183.8 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

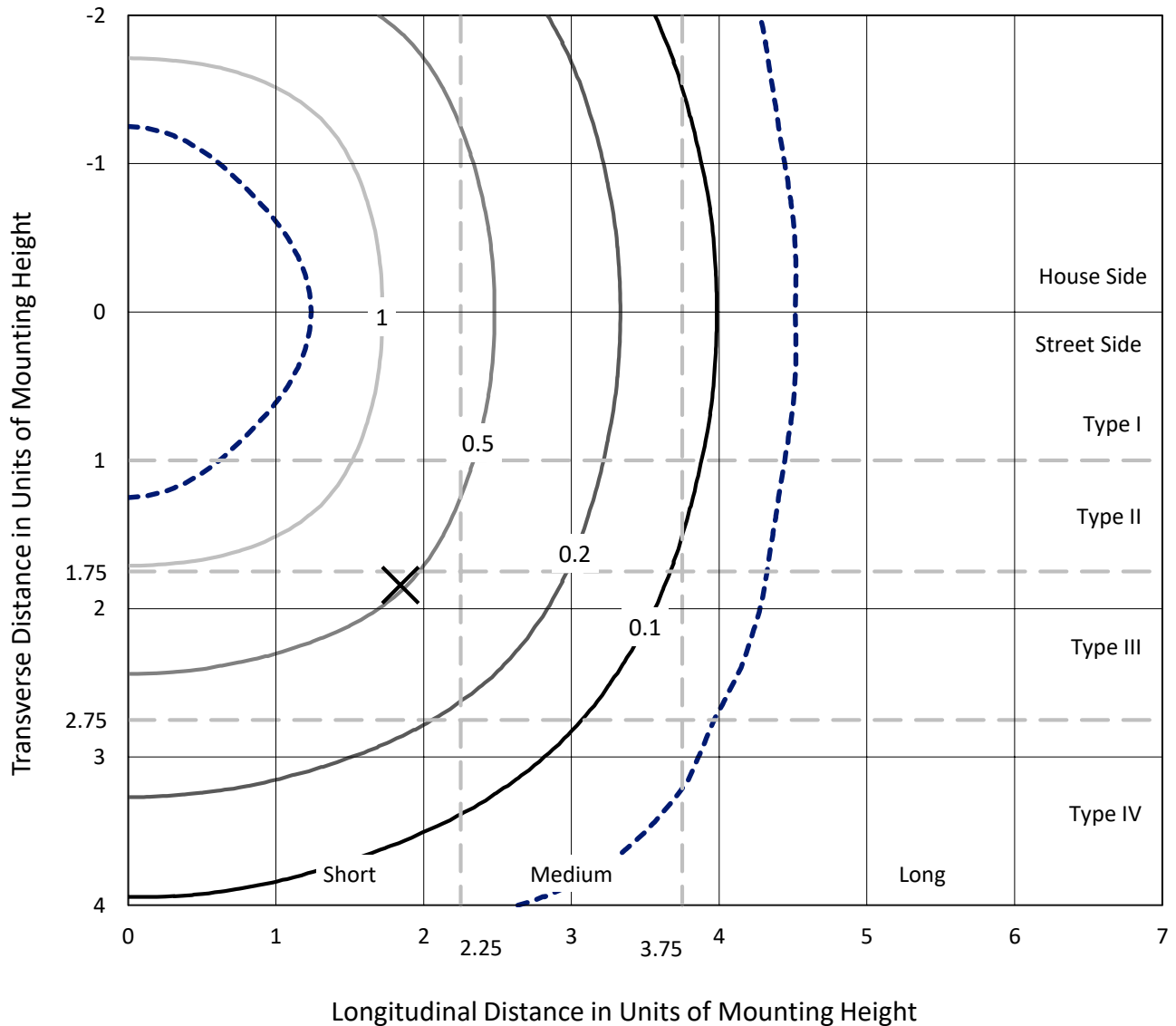


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

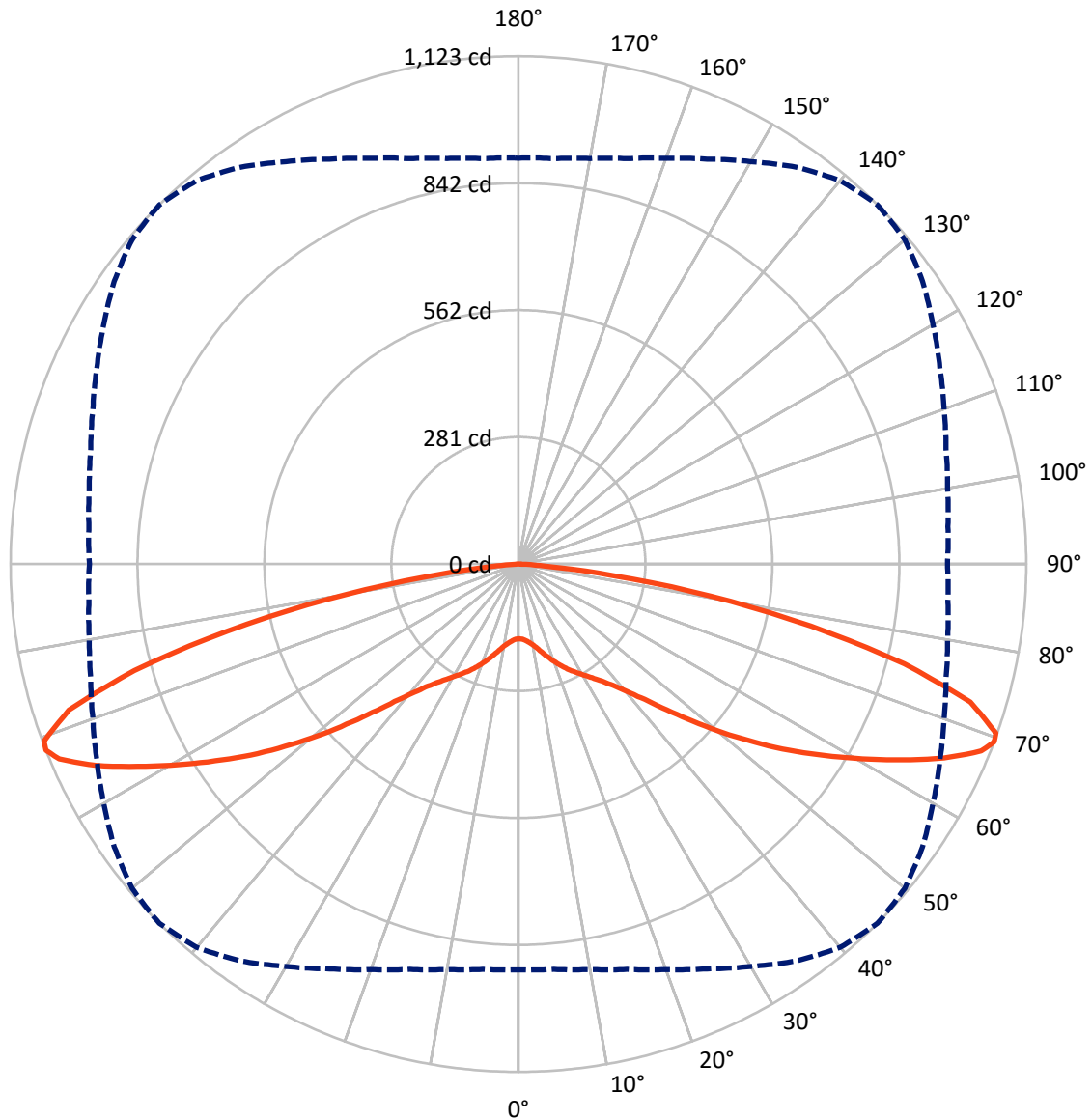


Based on 10 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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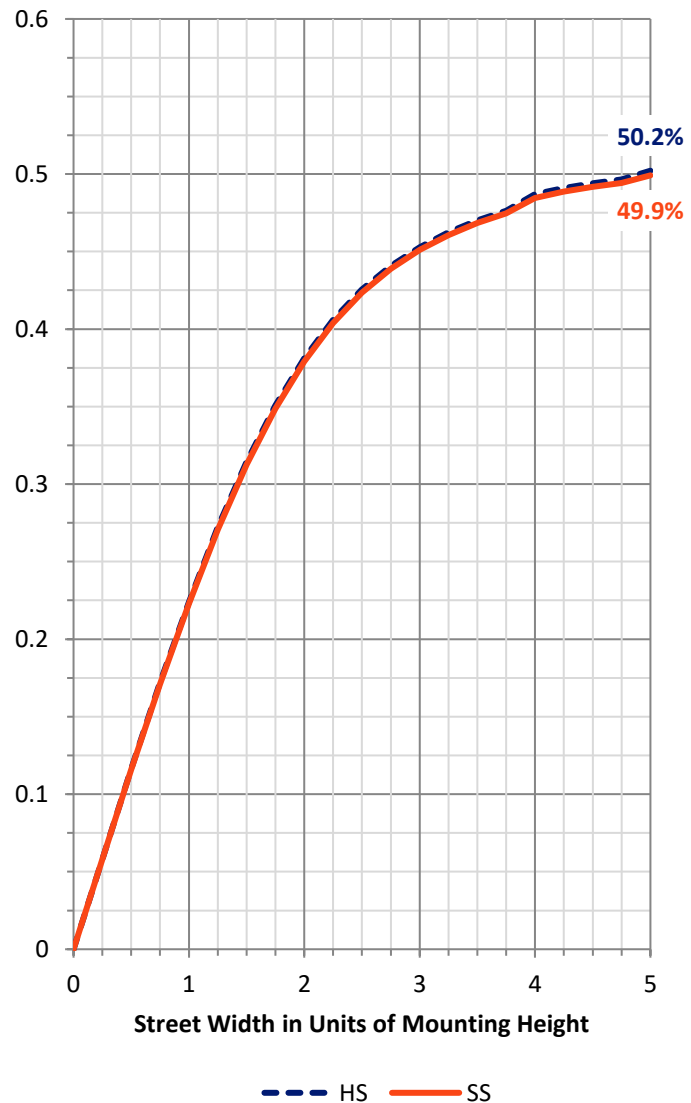
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1591.9	0.0	1591.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1591.9	0.0	1591.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	3183.8	0.0	3183.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.6	0.5
10°-20°	58.6	1.8
20°-30°	118.7	3.7
30°-40°	199.0	6.3
40°-50°	351.0	11.0
50°-60°	619.1	19.4
60°-70°	945.1	29.7
70°-80°	789.8	24.8
80°-90°	85.8	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°	3183.8	100.0
0°-180°	3183.8	100.0



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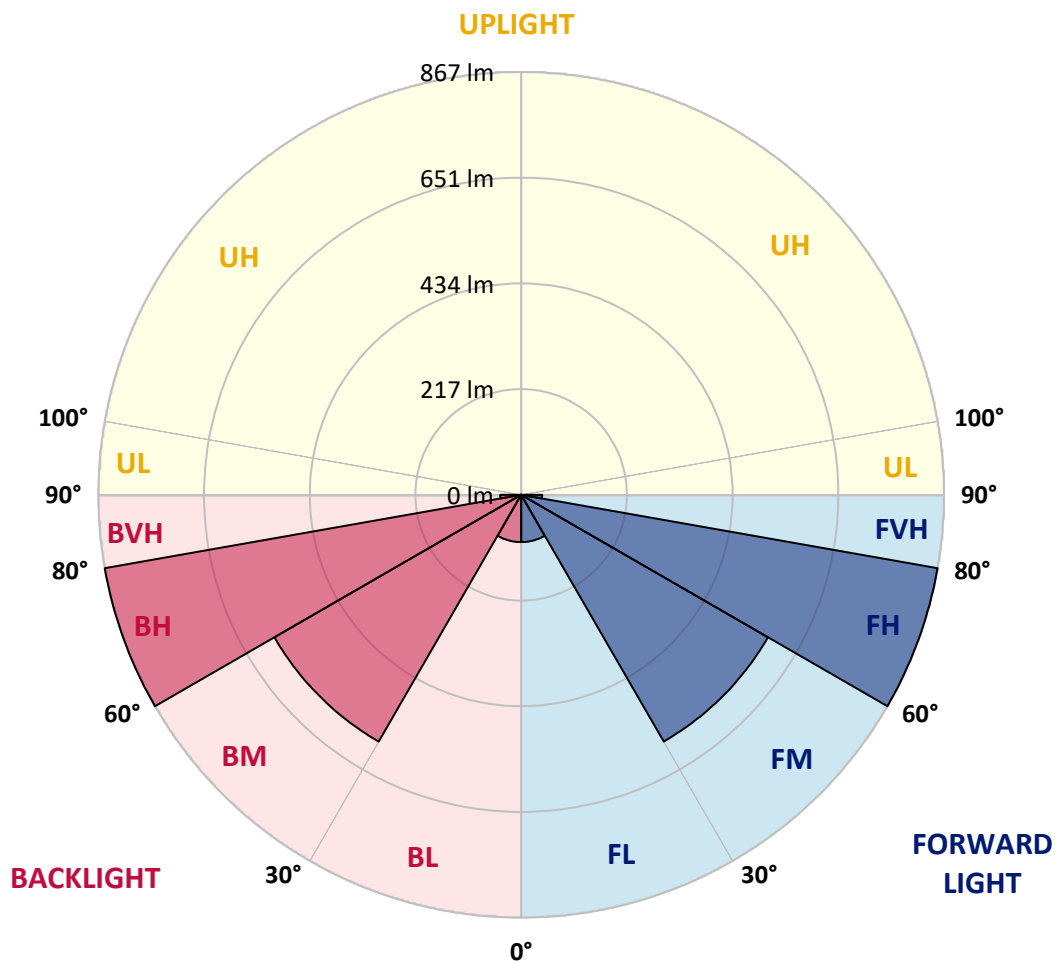
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.0	3.0			
FM	(30°-60°)	584.6	18.4			
FH	(60°-80°)	867.5	27.2			G1/1800
FVH	(80°-90°)	42.9	1.3			G1/100
BL	(0°-30°)	97.0	3.0	B0/110		
BM	(30°-60°)	584.6	18.4	B1/1000		
BH	(60°-80°)	867.5	27.2	B2/1000		G1/1800
BVH	(80°-90°)	42.9	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.3
2.5°	166.7	167.0	166.7	166.7	166.7	166.7	166.7	166.3	166.3	166.3	166.7
5°	170.0	170.3	170.0	170.3	170.3	170.3	170.3	170.0	170.0	170.0	170.0
7.5°	175.3	175.3	175.3	175.7	175.3	175.3	175.7	175.3	175.3	175.3	175.3
10°	183.0	182.7	182.7	182.7	182.7	182.7	183.0	183.0	183.0	182.7	182.7
12.5°	192.3	192.0	192.3	192.3	192.7	192.7	192.7	192.7	192.7	192.7	192.3
15°	203.7	203.7	203.7	204.0	204.7	204.7	204.3	204.7	204.7	204.7	204.7
17.5°	216.3	217.0	216.3	216.7	217.0	216.7	217.3	217.7	218.0	217.7	216.7
20°	229.3	229.7	229.7	229.7	229.7	230.3	230.7	230.7	231.7	231.3	231.0
22.5°	241.7	242.3	242.3	242.7	242.7	243.7	243.7	243.7	244.3	245.0	244.3
25°	254.7	254.3	254.3	255.0	255.3	256.7	256.7	257.3	258.3	258.7	258.0
27.5°	266.3	266.0	266.0	267.0	267.3	269.0	269.0	270.3	271.0	271.3	270.7
30°	278.7	278.7	278.3	279.3	280.3	281.7	282.3	283.7	284.7	285.0	284.3
32.5°	293.3	292.7	293.0	293.7	294.3	295.7	296.7	298.3	299.7	300.0	299.3
35°	310.0	309.0	309.3	310.0	311.0	313.0	314.7	315.7	317.7	318.3	317.0
37.5°	328.3	328.7	328.3	330.0	331.7	334.0	336.0	337.3	339.3	340.3	339.3
40°	354.3	353.3	354.3	356.0	358.7	361.7	365.7	366.7	368.7	370.7	368.3
42.5°	388.0	387.3	389.7	391.0	394.0	397.3	402.3	405.0	408.0	409.3	407.3
45°	432.0	432.0	434.7	435.0	439.7	444.0	451.0	454.3	460.0	460.0	460.0
47.5°	480.7	482.7	484.3	487.7	491.0	499.0	506.0	513.3	518.7	519.3	518.3
50°	531.0	533.0	538.0	542.7	550.0	560.0	567.7	577.3	582.0	586.0	584.7
52.5°	586.7	587.0	593.0	599.0	609.7	620.7	633.0	643.0	651.3	655.0	652.0
55°	647.7	648.3	653.7	660.0	672.0	684.7	700.0	710.3	721.0	727.7	722.7
57.5°	713.7	714.0	719.3	727.0	741.3	754.0	768.7	783.3	793.3	799.3	796.0
60°	786.7	788.3	792.3	802.0	815.7	829.0	843.7	856.7	868.3	874.7	871.3
62.5°	864.7	866.3	872.0	879.7	891.7	906.3	920.3	937.0	946.7	953.7	948.7
65°	917.0	920.0	929.0	939.3	957.0	976.0	992.3	1015.0	1026.7	1035.0	1030.3
67.5°	920.3	922.0	933.0	948.7	972.3	1001.0	1034.3	1069.7	1092.7	1103.7	1095.7
69°	897.7	900.0	910.7	928.3	954.7	988.0	1027.7	1071.7	1107.0	1123.3	1115.7
70°	872.0	877.0	888.7	908.0	933.7	968.7	1009.7	1056.7	1098.0	1120.3	1114.7
72.5°	818.0	819.3	827.0	842.3	862.0	891.0	929.7	974.0	1013.3	1045.3	1050.0
75°	726.0	730.3	736.0	746.3	756.3	777.3	803.3	833.7	856.7	881.3	882.3
77.5°	548.7	561.7	566.0	568.3	572.7	589.3	612.0	638.3	657.3	661.3	660.7
80°	246.3	263.7	267.7	286.7	298.3	326.0	360.7	401.0	428.0	431.0	423.7
82.5°	48.3	51.7	60.3	75.3	102.7	119.0	141.7	170.0	196.0	211.0	202.0
85°	16.0	17.0	19.7	21.7	25.0	28.3	34.3	42.7	53.0	58.7	52.3
87.5°	6.3	6.3	7.3	8.0	8.7	8.7	8.7	8.0	7.7	6.3	5.7
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°	165.3	165.3	165.3	165.3	165.3	165.3	165.3	165.3
2.5°	166.3	166.3	166.3	166.3	166.3	166.3	166.3	166.3
5°	170.0	169.7	169.7	169.3	169.3	169.3	169.3	169.3
7.5°	175.0	174.7	174.3	174.7	174.3	174.3	174.3	174.3
10°	182.7	182.0	181.7	181.3	181.3	181.3	181.0	181.0
12.5°	191.7	191.7	191.3	191.0	190.3	190.7	190.3	189.7
15°	204.0	203.3	203.0	202.7	202.0	202.0	202.0	201.7
17.5°	216.3	215.7	215.7	214.7	214.3	214.3	214.3	214.7
20°	230.0	229.0	228.3	227.7	227.0	227.3	226.7	227.3
22.5°	243.7	242.3	241.7	240.7	239.7	239.7	239.3	238.7
25°	257.0	255.3	254.7	253.7	252.3	252.3	251.7	251.0
27.5°	269.7	268.0	267.3	265.3	264.0	263.7	263.0	262.7
30°	283.7	281.7	280.7	278.7	276.7	276.3	275.3	275.3
32.5°	298.3	296.3	295.7	292.7	291.0	291.0	290.3	289.7
35°	316.7	313.7	313.0	310.0	307.7	307.7	307.0	307.3
37.5°	338.3	336.0	333.7	331.3	328.7	328.3	327.7	327.0
40°	367.3	364.7	362.0	358.7	356.3	355.7	354.7	354.3
42.5°	406.0	403.3	398.0	395.3	393.0	391.0	390.7	390.3
45°	455.3	452.0	448.3	443.3	440.3	436.0	435.3	433.7
47.5°	514.7	508.3	502.0	497.7	493.0	488.0	487.0	484.3
50°	577.7	572.7	562.0	555.0	547.7	542.7	539.3	538.3
52.5°	645.3	636.0	625.3	616.0	605.3	598.7	592.7	591.0
55°	716.0	702.7	689.3	678.3	667.7	659.7	654.0	651.3
57.5°	786.7	772.0	757.3	745.3	736.3	726.0	720.3	719.0
60°	860.3	846.3	831.3	819.3	808.3	799.3	796.0	789.7
62.5°	938.3	923.7	909.7	898.0	884.0	877.7	872.0	868.3
65°	1015.0	998.0	980.3	968.0	954.0	945.0	938.0	933.0
67.5°	1074.3	1048.7	1025.0	1004.3	985.3	971.3	962.3	957.7
69°	1091.0	1059.0	1028.7	1001.7	979.3	963.7	953.7	949.0
70°	1089.0	1053.7	1020.3	990.7	966.3	949.7	940.0	931.3
72.5°	1027.3	995.0	958.0	925.7	903.7	887.7	878.0	873.3
75°	876.7	855.0	828.3	803.3	787.3	778.0	766.0	766.3
77.5°	638.3	639.0	621.0	595.3	577.3	574.0	568.7	563.3
80°	396.0	364.3	343.7	316.0	295.7	278.0	270.3	253.7
82.5°	182.7	142.7	110.7	83.7	64.3	50.3	44.0	36.0
85°	40.7	31.0	25.7	20.7	17.7	16.3	13.3	12.3
87.5°	5.7	5.0	4.7	4.3	3.7	2.7	2.0	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)