

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: P148490

Luminaire Tested: **TMU-E02-LED-E-U-5XQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148490  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33676)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-E02-LED-E-U-5XQ  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE  
Light Source: (42) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6360.8 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G2

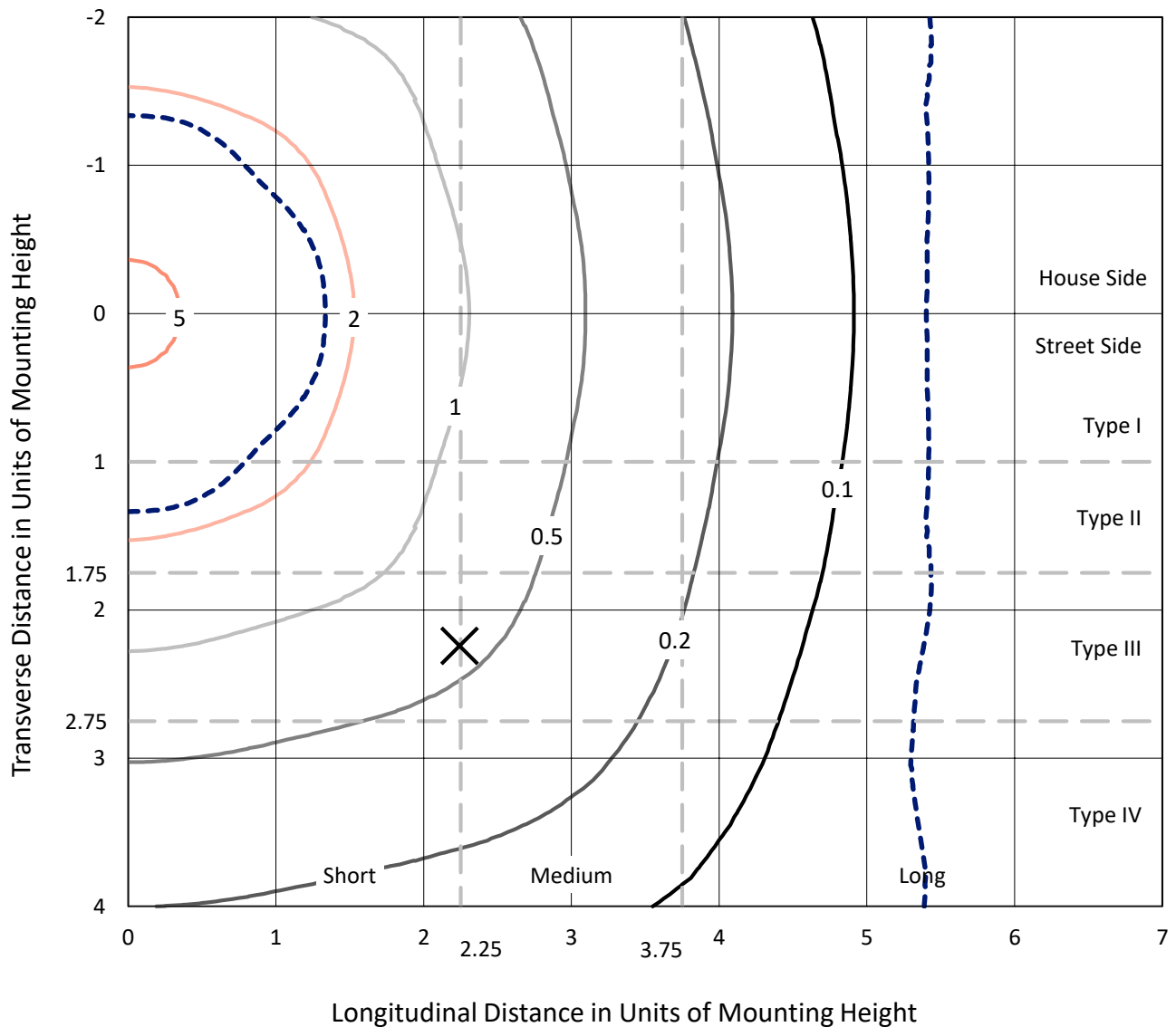
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

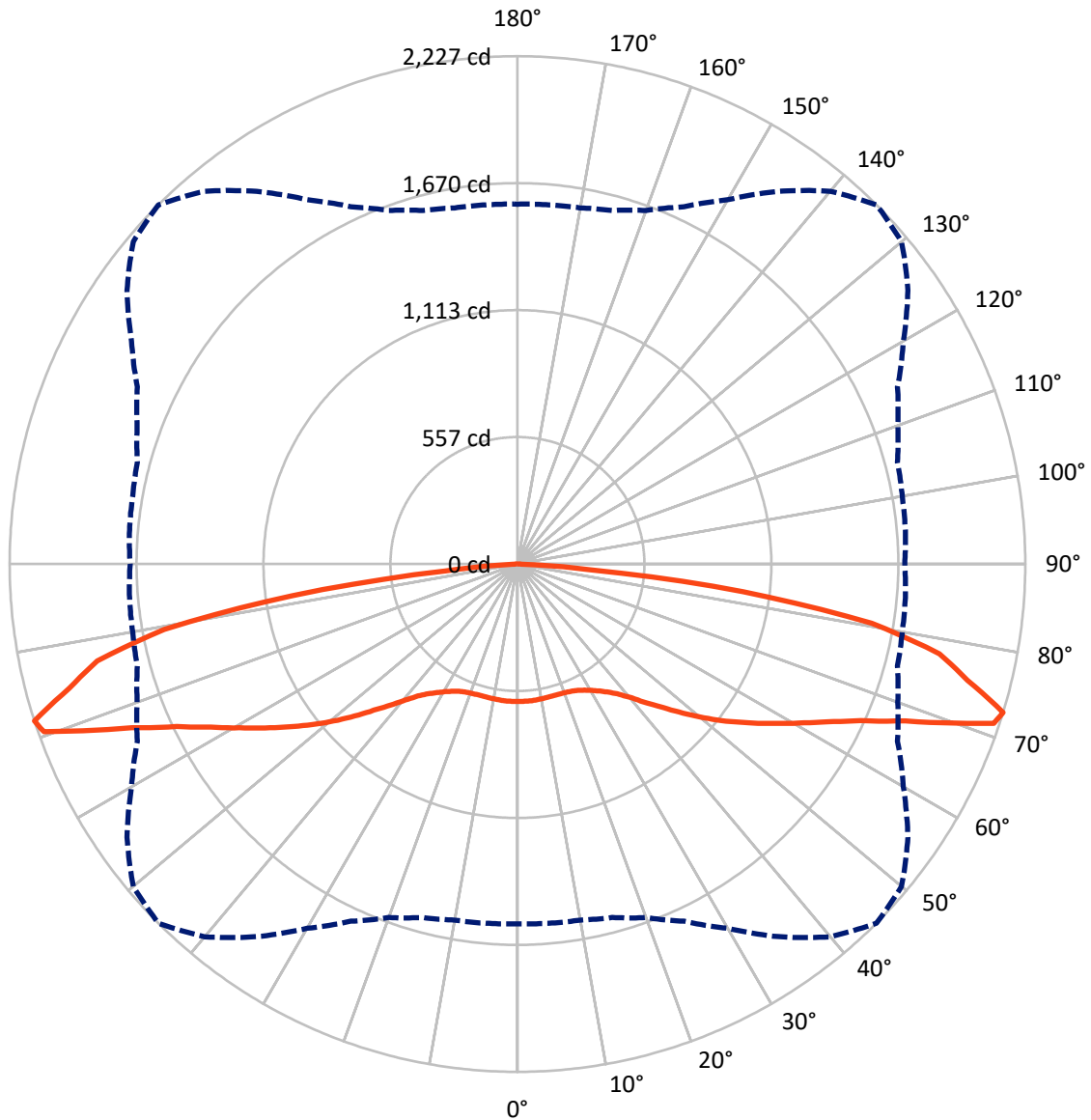


Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3180.4	0.0	3180.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3180.4	0.0	3180.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6360.8	0.0	6360.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.4	0.9
10°-20°	169.9	2.7
20°-30°	284.5	4.5
30°-40°	433.7	6.8
40°-50°	692.6	10.9
50°-60°	1064.9	16.7
60°-70°	1550.5	24.4
70°-80°	1746.6	27.5
80°-90°	360.6	5.7
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°	6360.8	100.0
0°-180°	6360.8	100.0



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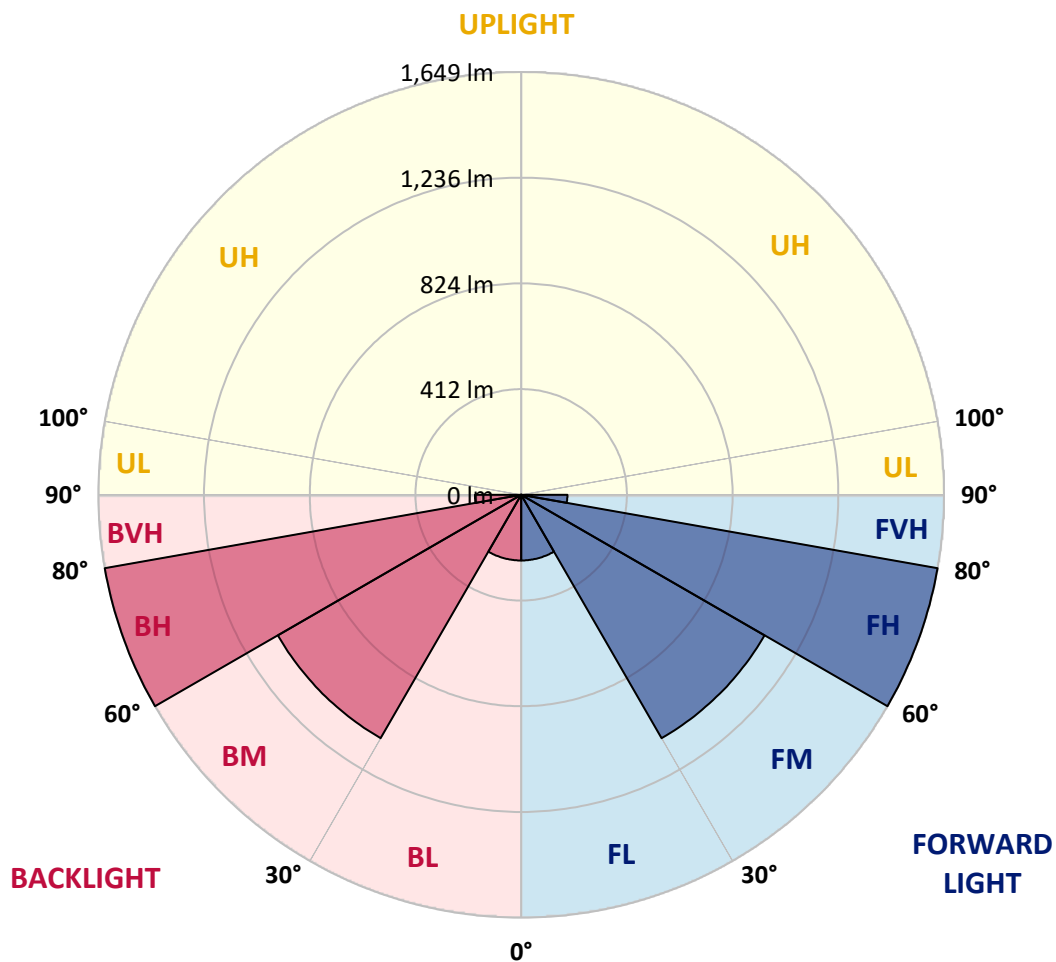
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	255.9	4.0			
FM	(30°-60°)	1095.6	17.2			
FH	(60°-80°)	1648.6	25.9			G1/1800
FVH	(80°-90°)	180.3	2.8			G2/225
BL	(0°-30°)	255.9	4.0	B1/500		
BM	(30°-60°)	1095.6	17.2	B2/2500		
BH	(60°-80°)	1648.6	25.9	B3/2500		G1/1800
BVH	(80°-90°)	180.3	2.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
2.5°	603.6	604.0	603.8	603.5	603.7	603.5	603.2	603.0	601.8	602.5	603.5
5°	603.7	603.3	603.2	603.0	603.0	603.5	603.0	602.5	602.4	602.7	602.2
7.5°	603.4	602.6	602.3	602.2	602.3	602.5	602.0	601.4	601.8	601.4	600.7
10°	602.3	601.8	602.0	601.4	601.5	601.4	600.7	600.2	600.5	600.0	599.2
12.5°	602.6	601.8	601.6	601.4	601.2	601.0	600.2	599.3	599.5	599.2	598.3
15°	602.6	602.2	602.0	601.3	601.2	600.8	599.8	599.5	599.5	599.0	598.0
17.5°	603.0	602.7	602.7	601.8	601.5	601.3	600.2	599.7	600.2	599.2	598.5
20°	604.0	603.7	603.8	603.4	602.7	602.6	601.8	601.5	601.7	601.5	599.7
22.5°	606.0	606.0	606.3	606.2	606.0	606.2	605.5	605.5	605.7	605.6	604.2
25°	611.7	611.5	611.8	611.8	612.0	613.2	612.6	612.5	613.3	613.4	611.8
27.5°	622.4	622.0	622.3	622.7	623.5	625.0	624.7	625.2	626.5	626.2	624.8
30°	634.6	634.3	635.2	636.2	636.8	639.2	638.2	640.7	641.8	642.8	641.8
32.5°	652.6	652.7	654.2	654.8	656.3	658.7	659.0	661.0	662.5	664.2	663.0
35°	676.6	676.4	677.5	678.6	680.5	682.6	683.5	686.2	688.5	689.7	687.5
37.5°	713.4	711.5	713.6	714.3	715.8	716.3	718.6	722.0	724.5	724.2	722.7
40°	763.0	762.7	761.8	760.8	763.2	764.0	764.0	768.5	772.5	771.8	771.7
42.5°	821.0	819.5	818.5	818.5	819.8	820.2	825.4	828.7	831.5	832.2	831.5
45°	883.4	881.8	882.2	881.5	882.0	884.2	887.2	893.3	898.7	898.8	896.0
47.5°	950.4	945.7	949.4	944.2	947.3	949.0	956.5	965.5	974.8	976.5	974.0
50°	1018.4	1017.8	1017.5	1016.5	1018.0	1021.7	1030.8	1045.0	1054.0	1060.0	1056.0
52.5°	1092.6	1090.2	1089.0	1087.3	1088.8	1096.0	1108.8	1121.2	1137.4	1144.2	1138.7
55°	1165.0	1164.2	1159.8	1159.7	1162.8	1174.0	1188.0	1203.2	1220.6	1228.3	1226.4
57.5°	1239.3	1234.5	1233.2	1231.2	1237.5	1248.0	1265.1	1292.5	1310.7	1319.3	1314.4
60°	1312.0	1308.4	1305.5	1304.8	1309.2	1323.8	1348.5	1381.4	1403.8	1415.2	1407.2
62.5°	1390.0	1387.6	1384.4	1380.5	1389.6	1408.5	1439.2	1475.5	1508.7	1522.6	1510.5
65°	1487.0	1482.2	1478.5	1473.7	1481.2	1504.8	1543.4	1594.5	1639.0	1655.3	1646.6
67.5°	1589.3	1584.8	1585.2	1582.2	1595.5	1628.3	1678.0	1747.5	1807.2	1835.0	1818.7
70°	1678.7	1681.2	1681.8	1694.0	1717.0	1767.0	1849.7	1958.5	2049.0	2091.5	2074.0
71°	1652.3	1657.8	1666.3	1679.0	1718.6	1777.8	1890.6	2022.5	2130.5	2202.5	2178.4
72.5°	1577.7	1581.0	1585.3	1604.6	1649.5	1727.8	1844.0	1994.7	2133.5	2226.7	2198.7
75°	1469.6	1472.8	1474.4	1487.8	1528.7	1597.0	1703.3	1837.0	1959.5	2038.8	2031.0
77.5°	1306.6	1307.2	1318.8	1339.6	1385.5	1463.7	1575.7	1714.3	1829.5	1891.2	1852.0
80°	938.4	932.0	944.0	970.8	1027.5	1117.2	1231.8	1390.2	1518.0	1575.7	1515.0
82.5°	357.0	376.3	406.8	451.2	470.3	570.0	677.0	770.0	877.7	998.0	967.8
85°	38.4	43.2	54.2	67.2	84.8	117.3	162.1	221.3	272.8	320.6	284.7
87.5°	14.4	14.7	16.3	18.8	19.2	20.0	21.3	24.8	23.2	20.0	16.2
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°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
2.5°	602.7	602.8	602.7	602.8	602.8	602.2	602.4	602.0
5°	602.5	602.0	602.2	602.4	602.2	602.5	602.0	602.4
7.5°	601.7	600.7	601.0	601.0	600.7	601.2	600.8	600.6
10°	600.0	598.6	599.3	599.0	598.8	599.0	599.0	599.0
12.5°	598.5	597.7	597.8	597.6	597.5	598.0	597.8	598.0
15°	598.2	596.8	596.7	596.4	596.5	596.8	596.8	597.4
17.5°	597.8	596.2	596.0	595.7	595.8	596.5	596.7	596.4
20°	598.8	597.5	597.2	596.8	596.7	597.5	597.3	597.4
22.5°	603.5	601.8	601.7	600.4	599.8	600.4	600.0	600.0
25°	611.0	609.0	608.3	606.5	605.2	605.2	604.7	604.4
27.5°	624.5	621.5	620.8	619.3	617.5	617.8	616.8	616.6
30°	640.2	637.5	635.2	633.0	630.8	630.0	628.8	628.6
32.5°	660.7	657.7	654.8	652.2	649.2	648.0	646.0	645.0
35°	685.8	681.8	678.5	676.6	673.7	672.2	670.8	672.4
37.5°	721.0	716.2	714.5	712.3	710.3	708.0	708.5	708.0
40°	769.7	765.3	763.7	759.8	759.3	756.7	758.3	756.7
42.5°	829.8	821.8	820.6	817.6	816.7	815.2	815.8	814.7
45°	895.4	888.2	886.8	882.0	882.2	878.6	880.0	880.0
47.5°	969.0	961.5	955.3	951.8	950.5	948.3	949.5	949.4
50°	1045.0	1034.8	1028.0	1021.2	1018.2	1019.0	1016.7	1020.6
52.5°	1126.7	1111.5	1101.8	1095.3	1089.7	1090.8	1091.2	1092.4
55°	1211.2	1191.8	1177.8	1169.3	1164.2	1164.5	1166.0	1167.4
57.5°	1296.2	1272.0	1253.0	1240.3	1237.0	1238.5	1238.5	1238.4
60°	1384.3	1355.3	1330.8	1316.5	1313.5	1312.7	1319.2	1317.0
62.5°	1479.0	1444.2	1418.8	1400.5	1396.2	1399.2	1405.0	1403.7
65°	1604.5	1556.3	1523.7	1505.5	1498.2	1501.2	1509.0	1508.7
67.5°	1766.4	1699.0	1655.8	1632.5	1627.2	1630.8	1635.2	1639.4
70°	2008.4	1912.2	1850.5	1800.0	1778.3	1774.2	1778.5	1778.7
71°	2093.5	1983.0	1884.8	1823.2	1787.7	1772.7	1773.8	1766.4
72.5°	2090.0	1953.8	1839.0	1774.5	1725.2	1713.2	1707.4	1698.3
75°	1949.2	1826.5	1726.8	1656.5	1609.0	1594.8	1584.5	1584.0
77.5°	1767.6	1677.2	1567.3	1492.8	1435.0	1411.5	1401.0	1400.6
80°	1421.0	1285.5	1205.2	1160.4	1090.5	1070.3	1049.0	1041.0
82.5°	859.3	671.5	546.0	485.2	451.5	371.8	333.7	315.6
85°	200.2	142.2	98.0	64.3	46.3	36.8	28.3	25.0
87.5°	13.5	10.7	9.5	7.6	5.8	5.7	3.5	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)