

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: P147970

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147970
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-E02-LED-E-U-5WQ
Description: TALON MEDIUM LED AREA LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6367.6 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (A_{in}): 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

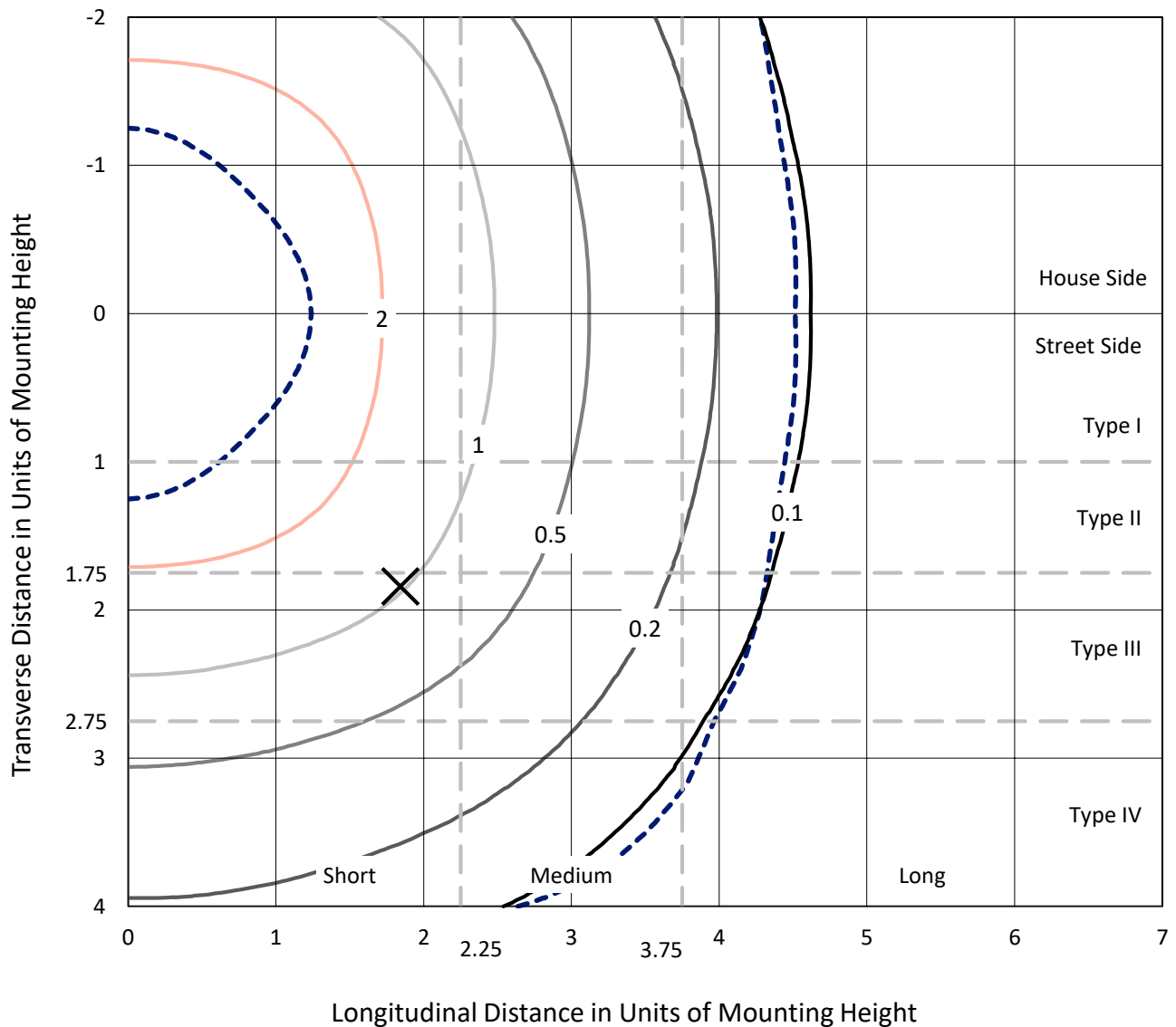


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

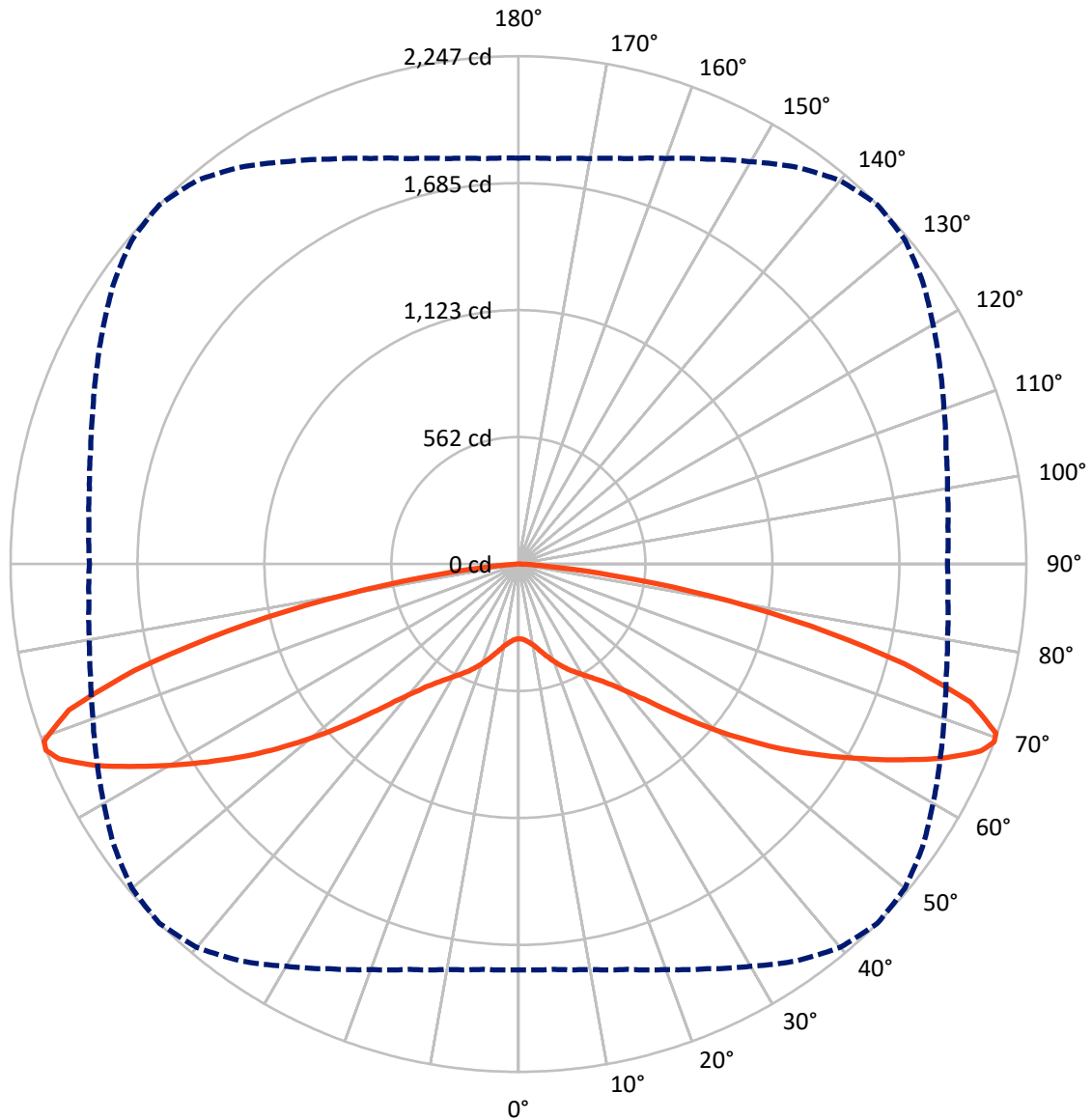


Based on 10 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - Semi-Cutoff

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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
House Side	Lumens	3183.8	0.0	3183.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3183.8	0.0	3183.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	6367.6	0.0	6367.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	0.5
10°-20°	117.2	1.8
20°-30°	237.4	3.7
30°-40°	398.0	6.3
40°-50°	702.1	11.0
50°-60°	1238.1	19.4
60°-70°	1890.3	29.7
70°-80°	1579.5	24.8
80°-90°	171.6	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°	6367.6	100.0
0°-180°	6367.6	100.0



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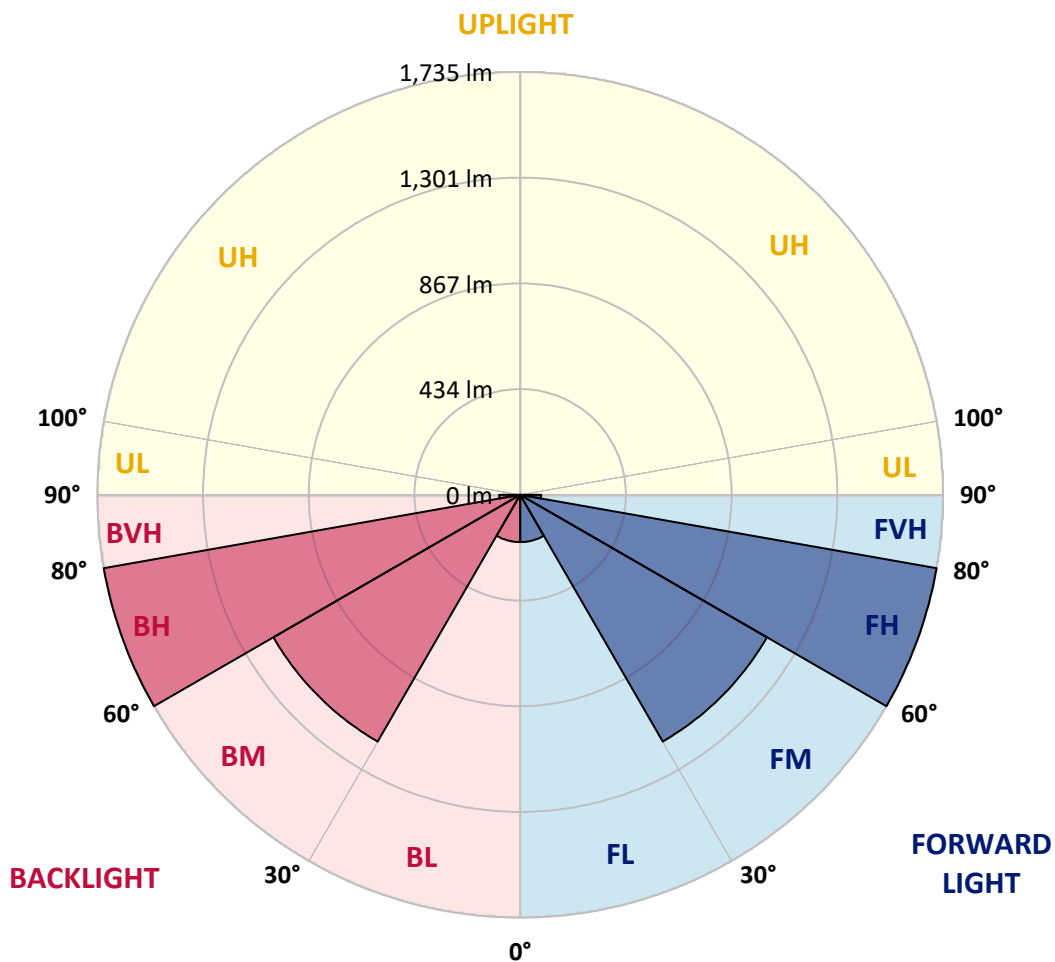
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.9	3.0			
FM	(30°-60°)	1169.1	18.4			
FH	(60°-80°)	1734.9	27.2			G1/1800
FVH	(80°-90°)	85.8	1.3			G1/100
BL	(0°-30°)	193.9	3.0	B1/500		
BM	(30°-60°)	1169.1	18.4	B2/2500		
BH	(60°-80°)	1734.9	27.2	B3/2500		G1/1800
BVH	(80°-90°)	85.8	1.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7
2.5°	333.3	334.0	333.3	333.3	333.3	333.3	333.3	332.7	332.7	332.7	333.3
5°	340.0	340.7	340.0	340.7	340.7	340.7	340.7	340.0	340.0	340.0	340.0
7.5°	350.7	350.7	350.7	351.3	350.7	350.7	351.3	350.7	350.7	350.7	350.7
10°	366.0	365.3	365.3	365.3	365.3	365.3	366.0	366.0	366.0	365.3	365.3
12.5°	384.7	384.0	384.7	384.7	385.3	385.3	385.3	385.3	385.3	385.3	384.7
15°	407.3	407.3	407.3	408.0	409.3	409.3	408.7	409.3	409.3	409.3	409.3
17.5°	432.7	434.0	432.7	433.3	434.0	433.3	434.7	435.3	436.0	435.3	433.3
20°	458.7	459.3	459.3	459.3	459.3	460.7	461.3	461.3	463.3	462.7	462.0
22.5°	483.3	484.7	484.7	485.3	485.3	487.3	487.3	487.3	488.7	490.0	488.7
25°	509.3	508.7	508.7	510.0	510.7	513.3	513.3	514.7	516.7	517.3	516.0
27.5°	532.7	532.0	532.0	534.0	534.7	538.0	538.0	540.7	542.0	542.7	541.3
30°	557.3	557.3	556.7	558.7	560.7	563.3	564.7	567.3	569.3	570.0	568.7
32.5°	586.7	585.3	586.0	587.3	588.7	591.3	593.3	596.7	599.3	600.0	598.7
35°	620.0	618.0	618.7	620.0	622.0	626.0	629.3	631.3	635.3	636.7	634.0
37.5°	656.7	657.3	656.7	660.0	663.3	668.0	672.0	674.7	678.7	680.7	678.7
40°	708.7	706.7	708.7	712.0	717.3	723.3	731.3	733.3	737.3	741.3	736.7
42.5°	776.0	774.7	779.3	782.0	788.0	794.7	804.7	810.0	816.0	818.7	814.7
45°	864.0	864.0	869.3	870.0	879.3	888.0	902.0	908.7	920.0	920.0	920.0
47.5°	961.3	965.3	968.7	975.3	982.0	998.0	1012.0	1026.7	1037.3	1038.7	1036.7
50°	1062.0	1066.0	1076.0	1085.3	1100.0	1120.0	1135.3	1154.7	1164.0	1172.0	1169.3
52.5°	1173.3	1174.0	1186.0	1198.0	1219.3	1241.3	1266.0	1286.0	1302.7	1310.0	1304.0
55°	1295.3	1296.7	1307.3	1320.0	1344.0	1369.3	1400.0	1420.7	1442.0	1455.3	1445.3
57.5°	1427.3	1428.0	1438.7	1454.0	1482.7	1508.0	1537.3	1566.7	1586.7	1598.7	1592.0
60°	1573.3	1576.7	1584.7	1604.0	1631.3	1658.0	1687.3	1713.3	1736.7	1749.3	1742.7
62.5°	1729.3	1732.7	1744.0	1759.3	1783.3	1812.7	1840.7	1874.0	1893.3	1907.3	1897.3
65°	1834.0	1840.0	1858.0	1878.7	1914.0	1952.0	1984.7	2030.0	2053.3	2070.0	2060.7
67.5°	1840.7	1844.0	1866.0	1897.3	1944.7	2002.0	2068.7	2139.3	2185.3	2207.3	2191.3
69°	1795.3	1800.0	1821.3	1856.7	1909.3	1976.0	2055.3	2143.3	2214.0	2246.7	2231.3
70°	1744.0	1754.0	1777.3	1816.0	1867.3	1937.3	2019.3	2113.3	2196.0	2240.7	2229.3
72.5°	1636.0	1638.7	1654.0	1684.7	1724.0	1782.0	1859.3	1948.0	2026.7	2090.7	2100.0
75°	1452.0	1460.7	1472.0	1492.7	1512.7	1554.7	1606.7	1667.3	1713.3	1762.7	1764.7
77.5°	1097.3	1123.3	1132.0	1136.7	1145.3	1178.7	1224.0	1276.7	1314.7	1322.7	1321.3
80°	492.7	527.3	535.3	573.3	596.7	652.0	721.3	802.0	856.0	862.0	847.3
82.5°	96.7	103.3	120.7	150.7	205.3	238.0	283.3	340.0	392.0	422.0	404.0
85°	32.0	34.0	39.3	43.3	50.0	56.7	68.7	85.3	106.0	117.3	104.7
87.5°	12.7	12.7	14.7	16.0	17.3	17.3	17.3	16.0	15.3	12.7	11.3
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°	330.7	330.7	330.7	330.7	330.7	330.7	330.7	330.7
2.5°	332.7	332.7	332.7	332.7	332.7	332.7	332.7	332.7
5°	340.0	339.3	339.3	338.7	338.7	338.7	338.7	338.7
7.5°	350.0	349.3	348.7	349.3	348.7	348.7	348.7	348.7
10°	365.3	364.0	363.3	362.7	362.7	362.7	362.0	362.0
12.5°	383.3	383.3	382.7	382.0	380.7	381.3	380.7	379.3
15°	408.0	406.7	406.0	405.3	404.0	404.0	404.0	403.3
17.5°	432.7	431.3	431.3	429.3	428.7	428.7	428.7	429.3
20°	460.0	458.0	456.7	455.3	454.0	454.7	453.3	454.7
22.5°	487.3	484.7	483.3	481.3	479.3	479.3	478.7	477.3
25°	514.0	510.7	509.3	507.3	504.7	504.7	503.3	502.0
27.5°	539.3	536.0	534.7	530.7	528.0	527.3	526.0	525.3
30°	567.3	563.3	561.3	557.3	553.3	552.7	550.7	550.7
32.5°	596.7	592.7	591.3	585.3	582.0	582.0	580.7	579.3
35°	633.3	627.3	626.0	620.0	615.3	615.3	614.0	614.7
37.5°	676.7	672.0	667.3	662.7	657.3	656.7	655.3	654.0
40°	734.7	729.3	724.0	717.3	712.7	711.3	709.3	708.7
42.5°	812.0	806.7	796.0	790.7	786.0	782.0	781.3	780.7
45°	910.7	904.0	896.7	886.7	880.7	872.0	870.7	867.3
47.5°	1029.3	1016.7	1004.0	995.3	986.0	976.0	974.0	968.7
50°	1155.3	1145.3	1124.0	1110.0	1095.3	1085.3	1078.7	1076.7
52.5°	1290.7	1272.0	1250.7	1232.0	1210.7	1197.3	1185.3	1182.0
55°	1432.0	1405.3	1378.7	1356.7	1335.3	1319.3	1308.0	1302.7
57.5°	1573.3	1544.0	1514.7	1490.7	1472.7	1452.0	1440.7	1438.0
60°	1720.7	1692.7	1662.7	1638.7	1616.7	1598.7	1592.0	1579.3
62.5°	1876.7	1847.3	1819.3	1796.0	1768.0	1755.3	1744.0	1736.7
65°	2030.0	1996.0	1960.7	1936.0	1908.0	1890.0	1876.0	1866.0
67.5°	2148.7	2097.3	2050.0	2008.7	1970.7	1942.7	1924.7	1915.3
69°	2182.0	2118.0	2057.3	2003.3	1958.7	1927.3	1907.3	1898.0
70°	2178.0	2107.3	2040.7	1981.3	1932.7	1899.3	1880.0	1862.7
72.5°	2054.7	1990.0	1916.0	1851.3	1807.3	1775.3	1756.0	1746.7
75°	1753.3	1710.0	1656.7	1606.7	1574.7	1556.0	1532.0	1532.7
77.5°	1276.7	1278.0	1242.0	1190.7	1154.7	1148.0	1137.3	1126.7
80°	792.0	728.7	687.3	632.0	591.3	556.0	540.7	507.3
82.5°	365.3	285.3	221.3	167.3	128.7	100.7	88.0	72.0
85°	81.3	62.0	51.3	41.3	35.3	32.7	26.7	24.7
87.5°	11.3	10.0	9.3	8.7	7.3	5.3	4.0	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)