

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P639318

Luminaire Tested: GWS-SA5B-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15985 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

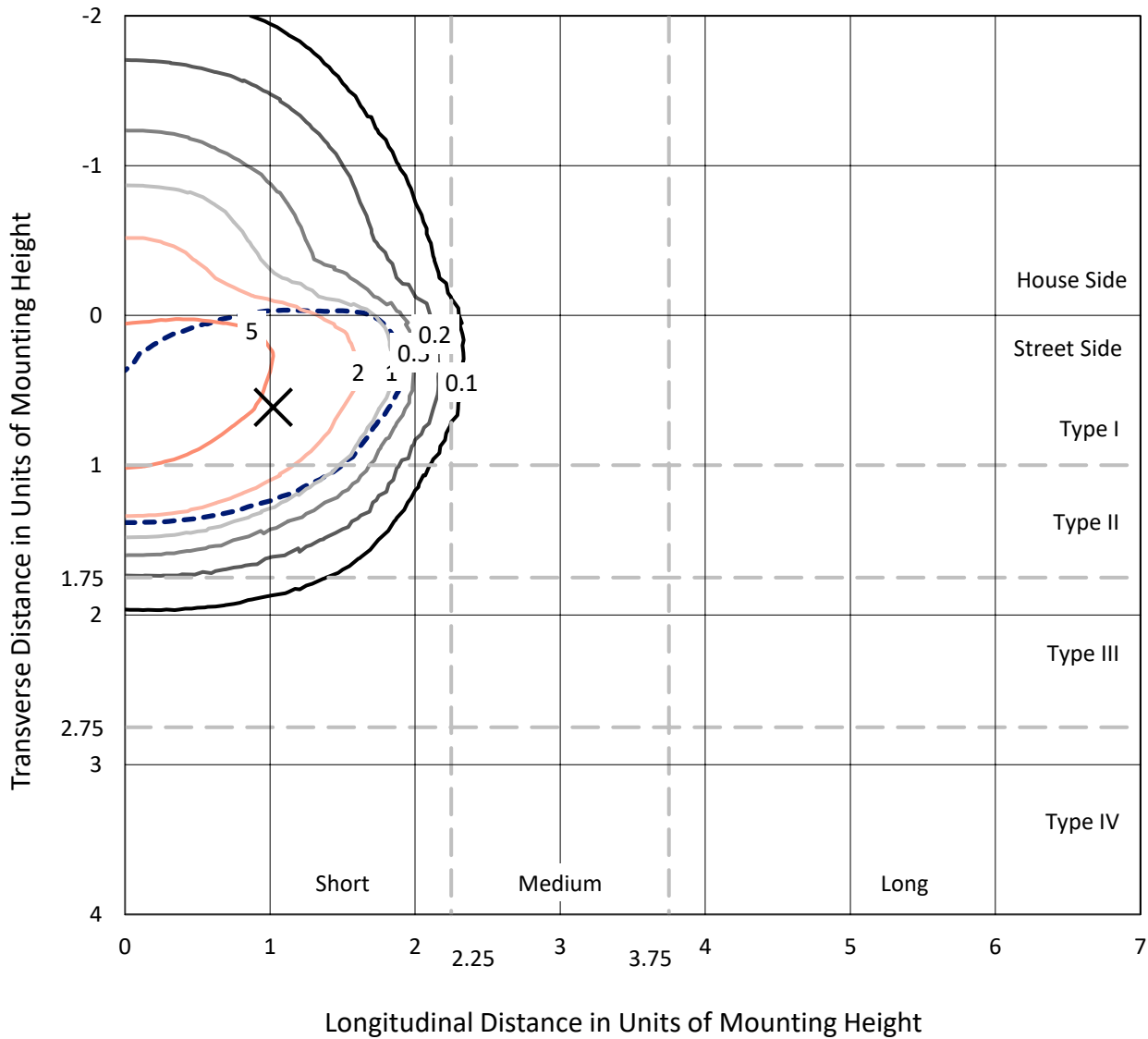
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

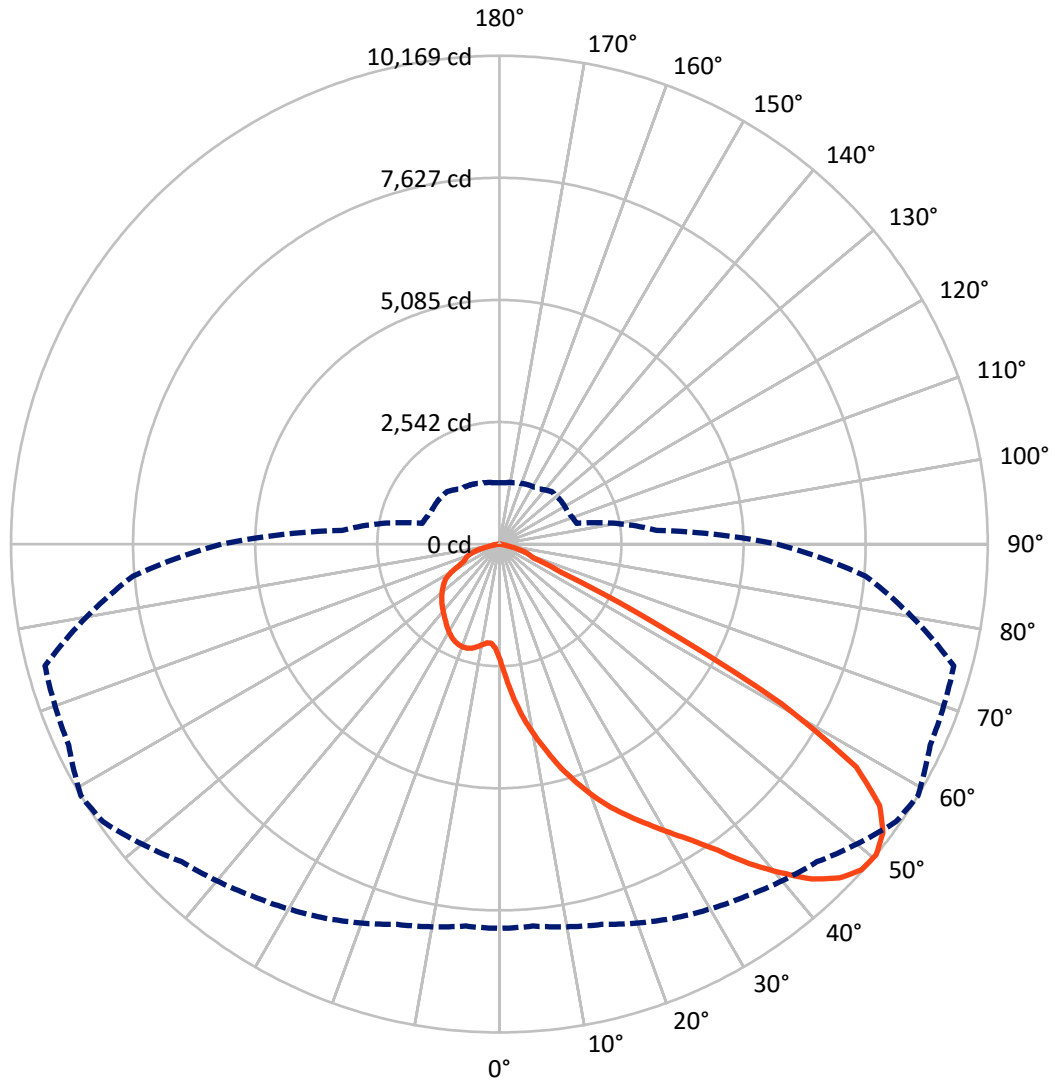
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3676.8	0.0	3676.8
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	12308.1	0.0	12308.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	15985.0	0.0	15985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	1.7
10°-20°	986.3	6.2
20°-30°	1867.6	11.7
30°-40°	3097.1	19.4
40°-50°	4230.8	26.5
50°-60°	3840.5	24.0
60°-70°	1278.9	8.0
70°-80°	373.0	2.3
80°-90°	39.2	0.2
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°	15985.0	100.0
0°-180°	15985.0	100.0

Coefficient of Utilization



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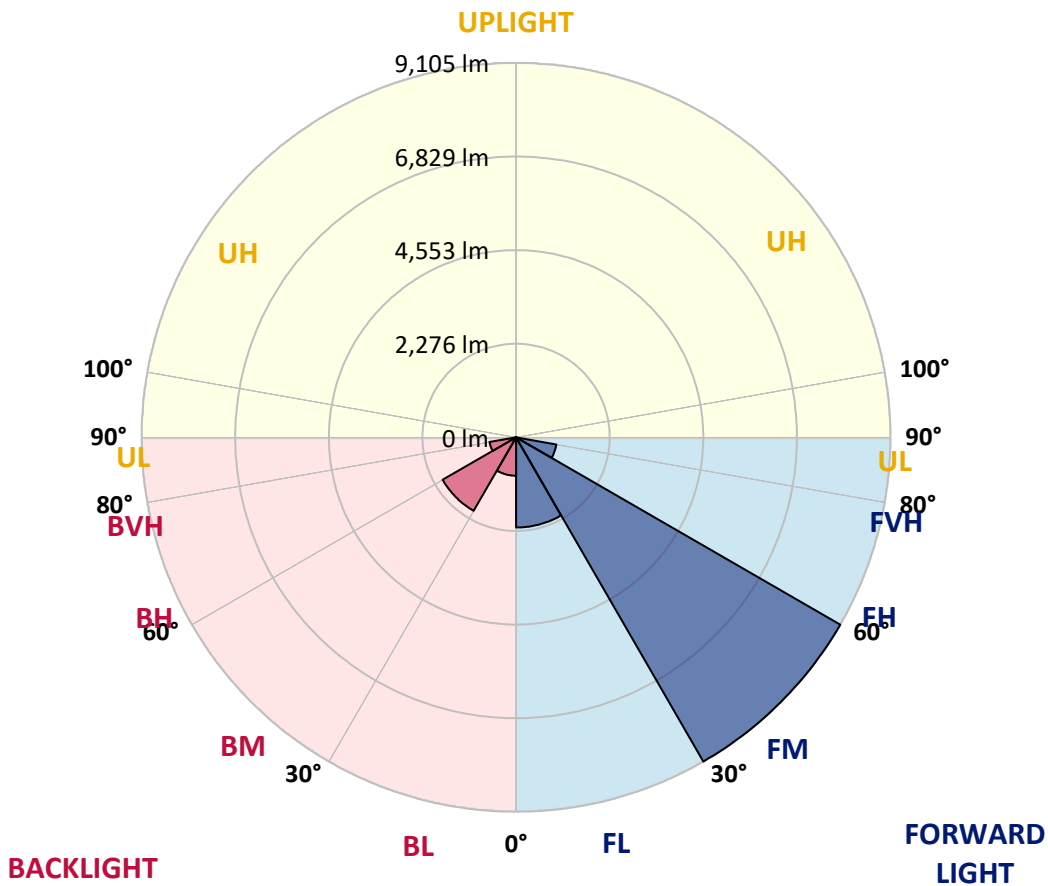
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2191.9	13.7			
FM (30°-60°)	9105.2	57.0			
FH (60°-80°)	995.6	6.2			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	933.6	5.8	B2/1000		
BM (30°-60°)	2063.1	12.9	B2/2500		
BH (60°-80°)	656.3	4.1	B2/1000		G2/1000
BVH (80°-90°)	23.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8
2.5°	3138.0	3161.4	3125.0	3127.6	3036.4	2994.7	2877.6	2808.6	2763.0	2635.4	2519.5
5°	3770.8	3743.4	3714.8	3697.9	3618.4	3506.5	3360.6	3244.7	3138.0	2888.0	2647.1
7.5°	4158.8	4144.5	4124.9	4114.5	4036.4	3919.2	3773.4	3674.4	3519.5	3180.9	2802.0
10°	4488.2	4471.3	4459.6	4467.4	4403.6	4328.1	4169.2	4055.9	3881.5	3490.8	2989.5
12.5°	4743.4	4752.5	4756.4	4798.1	4770.8	4725.2	4561.1	4441.3	4247.3	3817.7	3209.6
15°	4945.2	4942.6	4988.2	5067.6	5111.9	5083.3	4951.8	4851.5	4614.5	4139.3	3446.6
17.5°	4992.1	4994.7	5066.3	5205.7	5350.2	5420.5	5346.3	5226.5	4992.1	4457.0	3692.7
20°	5029.9	5035.1	5109.3	5268.2	5479.1	5675.7	5687.4	5601.5	5399.7	4800.7	3942.7
22.5°	5268.2	5279.9	5299.4	5399.7	5589.8	5838.5	5975.2	5956.9	5787.7	5161.4	4212.2
25°	5894.4	5859.3	5764.2	5735.6	5808.5	6010.3	6243.4	6278.6	6195.2	5558.5	4502.5
27.5°	6667.9	6630.1	6489.5	6341.1	6183.5	6253.8	6502.5	6608.0	6609.3	5996.0	4794.2
30°	7369.7	7339.7	7225.2	7012.9	6740.8	6639.2	6822.8	6964.7	7049.4	6501.2	5126.2
32.5°	7969.9	7942.6	7787.6	7614.5	7348.9	7144.4	7210.8	7347.6	7545.5	7154.8	5539.0
35°	8475.1	8447.8	8299.4	8124.9	7878.8	7756.4	7733.0	7826.7	8083.2	7837.1	6012.9
37.5°	8885.3	8857.9	8703.0	8538.9	8351.4	8359.3	8394.4	8440.0	8587.1	8567.6	6519.4
40°	9150.9	9122.3	9011.6	8894.4	8775.9	8869.7	9044.1	8989.5	9067.6	9157.4	6985.6
42.5°	9269.4	9232.9	9169.1	9143.1	9106.6	9252.5	9588.4	9533.7	9440.0	9550.6	7331.9
45°	9150.9	9119.7	9118.4	9197.8	9282.4	9469.9	9964.7	9920.4	9683.5	9740.7	7539.0
47.5°	8787.6	8760.3	8834.5	9042.8	9251.2	9524.6	10132.7	10140.5	9856.6	9820.2	7673.1
50°	8002.5	7984.3	8199.1	8593.6	8953.0	9354.0	10079.3	10169.1	9898.3	9795.4	7656.1
52.5°	6406.2	6490.8	6958.2	7617.1	8315.0	9054.6	9881.4	9998.6	9697.8	9632.7	7565.0
55°	4385.4	4424.4	4891.9	5854.1	6960.8	8406.1	9426.9	9607.9	9460.8	9605.3	7660.0
57.5°	2270.8	2302.1	2670.5	3524.7	4721.3	6643.1	8165.2	8759.0	8982.9	9743.4	7955.6
60°	932.3	958.3	1110.7	1523.4	2381.5	3868.4	5876.2	6756.4	7282.4	8898.3	7065.0
62.5°	677.1	690.1	763.0	908.8	1247.4	1895.8	3325.5	3649.7	4019.5	5576.7	4485.6
65°	570.3	584.6	643.2	731.8	910.1	1162.7	1420.6	1428.4	1574.2	2272.1	1662.7
67.5°	477.9	490.9	543.0	618.5	735.7	825.5	763.0	764.3	761.7	824.2	796.9
70°	372.4	382.8	434.9	515.6	576.8	529.9	596.3	660.1	632.8	657.5	695.3
72.5°	272.1	283.9	329.4	390.6	375.0	377.6	483.1	548.2	532.5	559.9	595.0
75°	196.6	204.4	227.9	195.3	205.7	248.7	339.8	375.0	390.6	414.1	445.3
77.5°	63.8	63.8	71.6	89.8	112.0	138.0	173.2	187.5	210.9	237.0	259.1
80°	32.6	33.9	40.4	49.5	62.5	79.4	101.6	108.1	119.8	134.1	143.2
82.5°	15.6	16.9	19.5	24.7	32.6	41.7	56.0	62.5	70.3	79.4	85.9
85°	3.9	3.9	5.2	7.8	10.4	15.6	20.8	24.7	31.2	37.8	41.7
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	3.9	5.2	6.5	7.8	10.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8	2421.8
2.5°	2467.4	2394.5	2300.7	2221.3	2148.4	2092.4	2044.2	2020.8	1998.7	1983.0	1988.3
5°	2535.1	2410.1	2235.6	2114.6	2040.3	2002.6	1976.5	1963.5	1960.9	1950.5	1946.6
7.5°	2634.1	2455.7	2222.6	2100.2	2050.8	2031.2	2016.9	2009.1	2013.0	2002.6	1998.7
10°	2756.5	2531.2	2255.2	2147.1	2104.1	2089.8	2074.2	2063.8	2058.6	2042.9	2040.3
12.5°	2908.8	2625.0	2313.8	2207.0	2164.0	2139.3	2118.5	2100.2	2088.5	2069.0	2063.8
15°	3072.9	2729.1	2382.8	2265.6	2214.8	2178.4	2144.5	2117.2	2096.3	2070.3	2066.4
17.5°	3251.3	2838.5	2440.1	2306.0	2240.9	2192.7	2143.2	2102.8	2074.2	2040.3	2036.4
20°	3437.5	2949.2	2483.0	2325.5	2242.2	2177.1	2110.6	2057.3	2020.8	1987.0	1984.3
22.5°	3630.2	3050.7	2509.1	2320.3	2221.3	2140.6	2061.2	2001.3	1958.3	1917.9	1915.3
25°	3824.2	3148.4	2515.6	2299.4	2179.7	2085.9	2006.5	1936.2	1888.0	1842.4	1837.2
27.5°	4020.8	3230.4	2500.0	2257.8	2123.7	2022.1	1942.7	1873.7	1824.2	1778.6	1770.8
30°	4230.4	3300.7	2466.1	2203.1	2058.6	1954.4	1876.3	1824.2	1777.3	1731.7	1723.9
32.5°	4454.4	3361.9	2417.9	2136.7	1983.0	1886.7	1829.4	1782.5	1735.7	1695.3	1687.5
35°	4721.3	3402.3	2346.3	2050.8	1912.7	1837.2	1798.2	1743.5	1686.2	1641.9	1638.0
37.5°	4997.3	3433.5	2260.4	1968.7	1851.5	1808.6	1776.0	1701.8	1630.2	1576.8	1570.3
40°	5264.2	3459.6	2153.6	1891.9	1795.5	1787.7	1743.5	1651.0	1527.3	1467.4	1462.2
42.5°	5512.9	3467.4	2041.6	1809.9	1744.8	1740.9	1691.4	1548.2	1453.1	1415.3	1410.1
45°	5683.5	3460.9	1925.8	1733.0	1694.0	1673.2	1621.1	1473.9	1415.3	1381.5	1375.0
47.5°	5809.8	3427.0	1795.5	1652.3	1636.7	1608.1	1496.1	1427.1	1372.4	1338.5	1332.0
50°	5787.7	3286.4	1664.0	1574.2	1567.7	1542.9	1404.9	1368.5	1320.3	1283.8	1278.6
52.5°	5673.1	3019.5	1529.9	1488.3	1501.3	1453.1	1339.8	1298.2	1256.5	1214.8	1205.7
55°	5701.7	2826.8	1428.4	1404.9	1428.4	1319.0	1266.9	1222.6	1183.6	1143.2	1135.4
57.5°	5826.7	2636.7	1320.3	1315.1	1339.8	1216.1	1173.2	1117.2	1061.2	1028.6	1028.6
60°	4893.2	1921.8	1130.2	1143.2	1199.2	1132.8	1095.0	1037.7	976.5	947.9	947.9
62.5°	2893.2	1205.7	937.5	923.2	958.3	1000.0	1020.8	973.9	901.0	863.3	864.6
65°	1274.7	877.6	826.8	815.1	804.7	833.3	890.6	894.5	817.7	773.4	774.7
67.5°	785.1	794.3	773.4	764.3	755.2	750.0	744.8	747.4	726.6	686.2	684.9
70°	708.3	733.1	718.7	710.9	699.2	690.1	658.8	608.1	572.9	562.5	574.2
72.5°	609.4	643.2	635.4	631.5	617.2	595.0	553.4	503.9	462.2	436.2	441.4
75°	459.6	487.0	490.9	492.2	476.6	455.7	412.8	371.1	334.6	307.3	313.8
77.5°	264.3	279.9	283.9	287.8	276.0	268.2	239.6	209.6	190.1	161.5	169.3
80°	147.1	153.6	153.6	154.9	148.4	139.3	119.8	102.9	93.7	80.7	82.0
82.5°	88.5	91.1	92.4	93.7	89.8	80.7	66.4	54.7	49.5	43.0	41.7
85°	43.0	45.6	45.6	46.9	40.4	35.2	27.3	20.8	18.2	13.0	14.3
87.5°	10.4	11.7	11.7	10.4	9.1	6.5	3.9	1.3	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)