

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: P632879

Luminaire Tested: GWS-SA2D-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-750-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

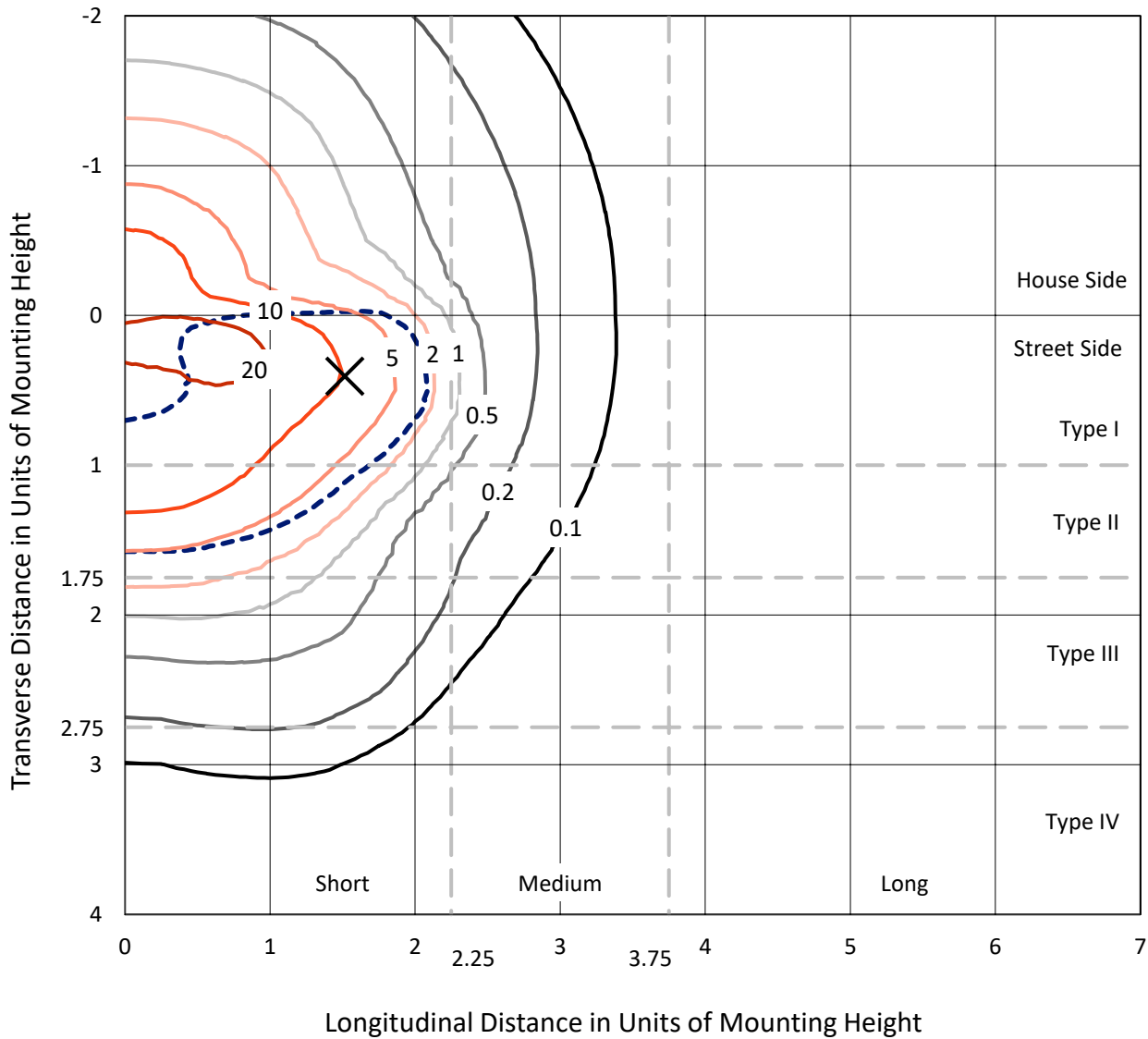
Lumens per Lamp: N/A  
Luminaire Lumens: 9957.7 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

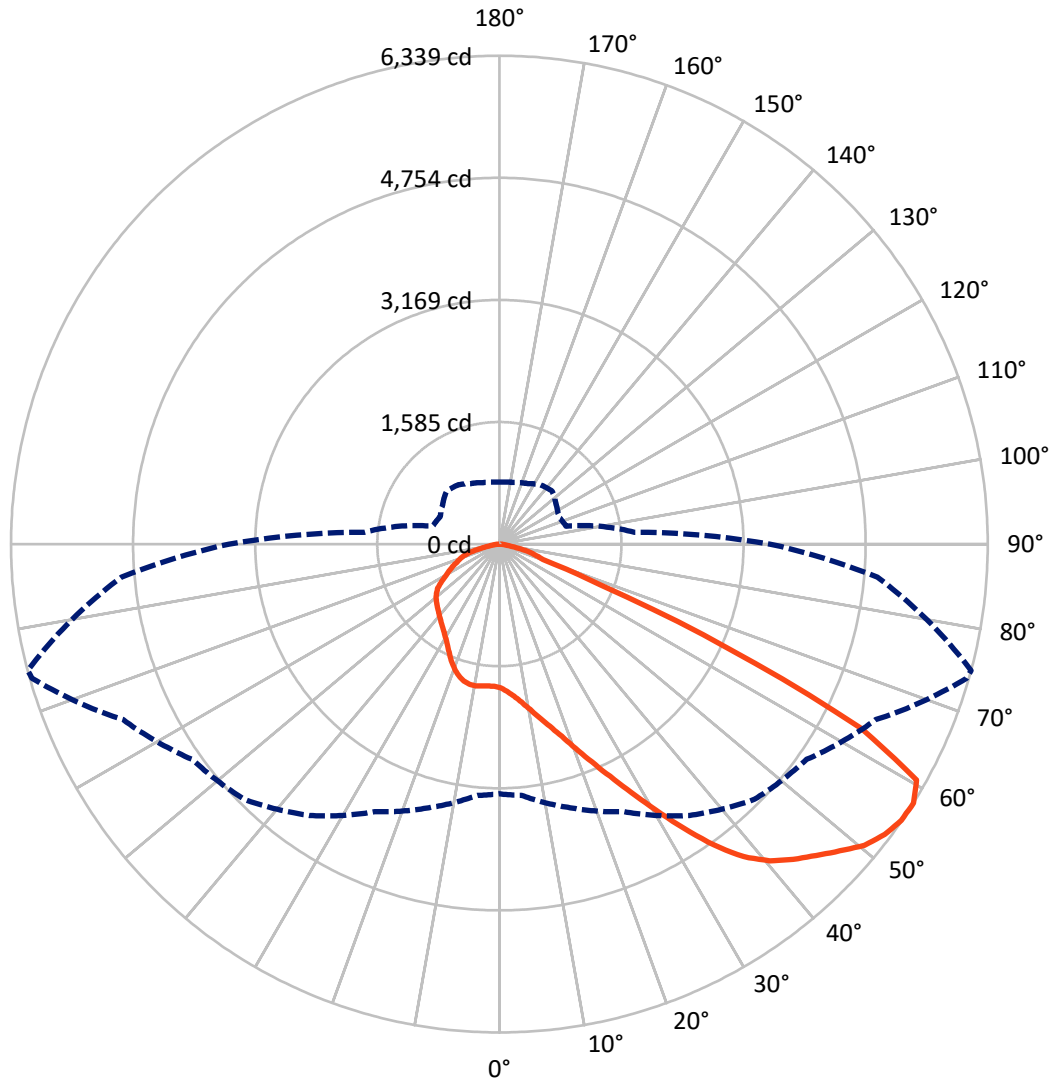
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2693.8	0.0	2693.8
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	7263.9	0.0	7263.9
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	9957.7	0.0	9957.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.6	1.9
10°-20°	594.1	6.0
20°-30°	1053.7	10.6
30°-40°	1613.0	16.2
40°-50°	2246.0	22.6
50°-60°	2573.5	25.8
60°-70°	1322.3	13.3
70°-80°	332.9	3.3
80°-90°	35.6	0.4
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°	9957.7	100.0
0°-180°	9957.7	100.0

**Coefficient of Utilization**



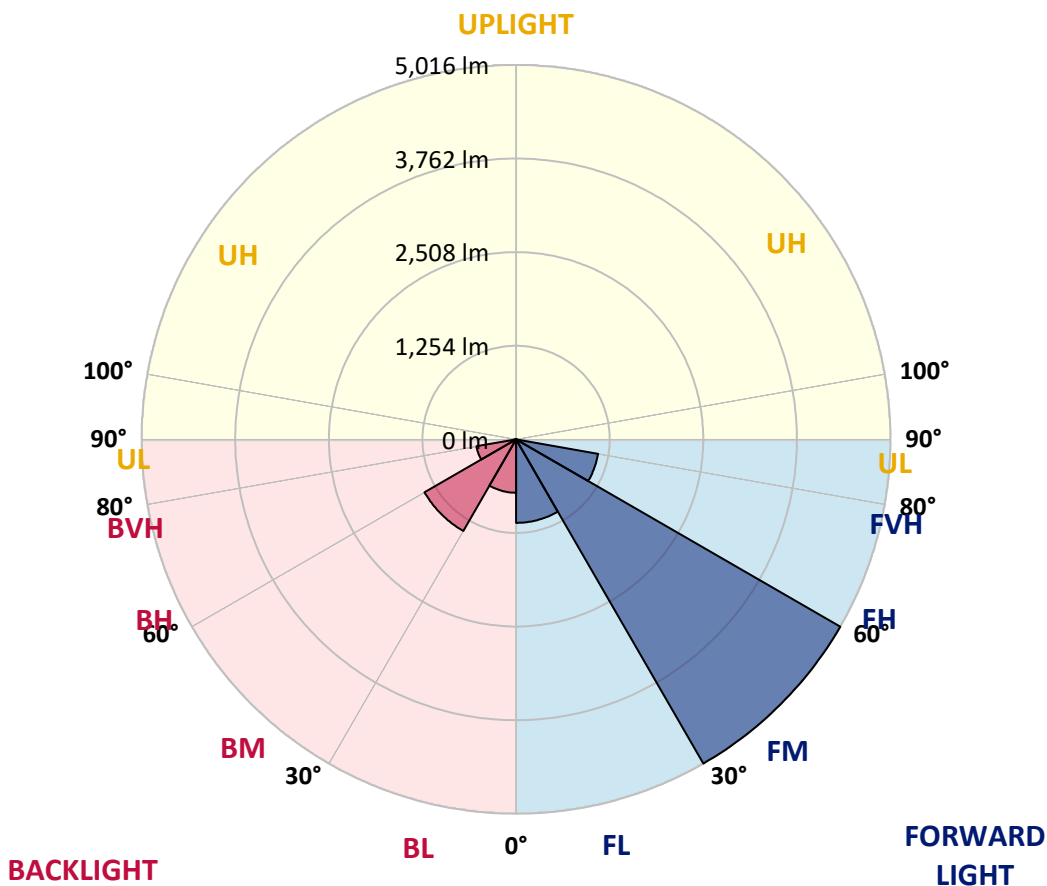
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1118.8	11.2			
FM (30°-60°)	5015.8	50.4			
FH (60°-80°)	1116.2	11.2			G1/1800
FVH (80°-90°)	13.2	0.1			G1/100
BL (0°-30°)	715.6	7.2	B2/1000		
BM (30°-60°)	1416.7	14.2	B2/2500		
BH (60°-80°)	539.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	22.4	0.2			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°	65°	74°	75°	85°
0°	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8
2.5°	2003.5	2008.7	2003.5	2012.1	1995.0	1987.3	1968.4	1940.2	1917.9	1914.5	1889.7
5°	2159.4	2170.5	2163.7	2160.2	2137.1	2120.0	2091.7	2035.2	1989.0	1982.1	1933.3
7.5°	2259.6	2267.3	2267.3	2269.8	2261.3	2241.6	2211.6	2144.8	2079.7	2069.5	1995.8
10°	2292.9	2298.9	2310.1	2331.5	2348.6	2354.6	2334.9	2270.7	2191.1	2180.8	2078.0
12.5°	2300.7	2307.5	2324.6	2364.0	2411.1	2453.9	2457.3	2410.2	2321.2	2310.1	2173.1
15°	2315.2	2322.1	2345.2	2394.0	2463.3	2545.5	2596.0	2563.5	2465.0	2453.1	2281.0
17.5°	2313.5	2321.2	2355.4	2420.5	2513.8	2632.9	2730.5	2744.2	2642.3	2621.7	2403.4
20°	2309.2	2316.1	2352.9	2432.5	2548.1	2711.6	2888.0	2959.1	2849.5	2830.6	2546.4
22.5°	2343.5	2351.2	2379.4	2445.4	2566.1	2772.4	3033.6	3204.8	3095.2	3068.7	2710.8
25°	2420.5	2431.7	2448.8	2494.2	2598.6	2826.4	3182.6	3483.1	3370.9	3339.2	2889.7
27.5°	2539.5	2553.2	2577.2	2598.6	2671.4	2894.9	3330.7	3794.7	3682.6	3649.2	3079.0
30°	2685.1	2703.1	2733.9	2748.5	2798.1	2995.9	3491.6	4115.8	4050.8	4004.5	3292.2
32.5°	2886.3	2911.1	2940.2	2944.5	2974.5	3149.2	3650.9	4434.3	4433.5	4400.9	3534.5
35°	3148.3	3174.8	3180.8	3186.8	3201.4	3359.8	3843.6	4724.6	4836.8	4799.1	3798.2
37.5°	3434.3	3472.8	3482.2	3455.7	3476.2	3613.2	4060.2	4957.5	5187.8	5147.6	4053.3
40°	3740.0	3755.4	3781.0	3739.1	3764.8	3903.5	4272.5	5106.5	5449.8	5407.0	4254.5
42.5°	3959.1	3987.4	4025.9	4010.5	4025.1	4151.8	4421.5	5178.4	5636.5	5593.7	4399.2
45°	4197.2	4205.7	4230.6	4227.1	4235.7	4353.9	4528.5	5210.1	5803.4	5764.9	4522.5
47.5°	4404.4	4417.2	4433.5	4414.6	4395.8	4472.9	4615.9	5237.5	5996.1	5949.8	4651.8
50°	4603.9	4615.0	4634.7	4579.9	4509.7	4529.4	4658.7	5275.1	6176.7	6144.2	4753.7
52.5°	4640.7	4652.7	4745.1	4756.3	4666.4	4597.0	4734.0	5358.2	6282.9	6262.4	4790.5
55°	4177.5	4198.9	4383.0	4594.5	4816.2	4794.0	4854.7	5401.9	6324.9	6330.0	4856.5
57.5°	3242.5	3273.3	3542.2	3832.4	4299.1	4685.2	4870.2	5390.7	6310.3	6338.6	4924.1
60°	2126.8	2144.8	2463.3	2788.7	3272.5	3806.7	4359.0	5190.4	6181.0	6221.3	4907.0
62.5°	1284.3	1304.9	1560.9	1807.5	2092.6	2449.6	2956.5	4171.5	5181.0	5270.9	3930.0
65°	896.5	923.9	1148.2	1351.1	1449.6	1375.9	1497.5	2329.8	3227.9	3265.6	2401.7
67.5°	649.9	668.7	852.8	1094.2	1203.0	971.8	740.6	1031.7	1405.9	1419.6	990.6
70°	425.5	446.9	613.9	833.1	982.1	787.7	554.0	558.3	591.6	598.5	575.4
72.5°	233.7	246.6	379.3	553.1	580.5	470.9	432.4	464.1	487.2	487.2	493.2
75°	120.7	131.9	155.0	182.4	220.0	257.7	311.7	358.8	383.6	385.3	382.7
77.5°	61.6	65.9	83.1	89.9	98.5	114.7	149.0	190.9	213.2	221.8	220.0
80°	29.1	30.8	35.1	41.1	50.5	64.2	80.5	95.9	109.6	111.3	120.7
82.5°	15.4	17.1	18.8	22.3	27.4	34.2	47.1	56.5	65.1	66.8	74.5
85°	6.0	6.8	7.7	8.6	12.0	14.6	19.7	26.5	32.5	32.5	38.5
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	3.4	4.3	6.0	6.0	10.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8	1864.8
2.5°	1883.7	1858.8	1847.7	1829.7	1815.2	1798.9	1786.1	1776.6	1770.7	1767.2	1763.8
5°	1914.5	1876.8	1846.9	1810.9	1786.1	1762.1	1742.4	1728.7	1721.9	1716.7	1713.3
7.5°	1962.4	1911.9	1855.4	1799.8	1756.1	1717.6	1692.7	1678.2	1668.8	1665.3	1662.8
10°	2028.4	1958.2	1864.8	1776.6	1711.6	1669.6	1652.5	1645.6	1646.5	1644.8	1643.9
12.5°	2102.9	2007.0	1862.3	1735.5	1663.6	1638.8	1639.7	1650.8	1663.6	1667.1	1667.9
15°	2183.4	2054.9	1837.4	1682.5	1626.0	1628.5	1650.8	1677.3	1701.3	1710.7	1712.4
17.5°	2270.7	2095.2	1792.1	1624.2	1595.1	1622.5	1663.6	1707.3	1742.4	1757.8	1762.1
20°	2368.3	2129.4	1727.8	1566.9	1566.0	1611.4	1671.3	1728.7	1773.2	1793.8	1797.2
22.5°	2471.9	2150.8	1649.1	1513.8	1536.1	1596.8	1665.3	1725.3	1772.4	1792.9	1797.2
25°	2576.4	2157.7	1562.6	1465.0	1505.2	1573.7	1636.2	1684.2	1728.7	1746.7	1750.1
27.5°	2674.0	2138.0	1480.4	1423.0	1477.0	1539.5	1581.4	1607.1	1637.9	1651.6	1654.2
30°	2773.3	2098.6	1411.0	1389.6	1445.3	1492.4	1511.2	1512.9	1524.9	1524.9	1526.6
32.5°	2873.5	2040.4	1350.3	1357.1	1405.9	1436.7	1439.3	1419.6	1405.1	1381.1	1380.2
35°	2989.0	1981.3	1300.6	1320.3	1359.7	1378.5	1370.8	1333.1	1298.0	1258.6	1256.9
37.5°	3096.1	1920.5	1258.6	1282.6	1307.4	1321.1	1303.2	1257.8	1228.7	1188.4	1182.4
40°	3184.3	1865.7	1218.4	1243.2	1255.2	1267.2	1238.1	1201.3	1205.6	1183.3	1182.4
42.5°	3235.6	1812.6	1180.7	1199.6	1207.3	1215.8	1190.1	1162.7	1185.9	1168.7	1169.6
45°	3273.3	1766.4	1146.5	1153.3	1172.2	1185.0	1161.0	1130.2	1135.3	1069.4	1054.0
47.5°	3316.1	1740.7	1113.9	1107.1	1140.5	1162.7	1125.9	1081.4	1050.6	985.5	979.5
50°	3361.5	1731.3	1079.7	1060.9	1101.1	1122.5	1079.7	1024.0	983.8	948.7	945.3
52.5°	3376.9	1730.4	1036.9	1005.2	1045.4	1075.4	1039.4	982.9	935.0	900.7	899.0
55°	3437.7	1755.2	982.1	929.0	966.7	1028.3	1001.8	920.4	881.9	866.5	864.8
57.5°	3508.8	1759.5	895.6	845.9	898.2	970.9	937.6	867.3	825.4	806.6	804.8
60°	3479.7	1654.2	803.1	782.6	839.9	917.0	886.2	825.4	776.6	758.6	756.9
62.5°	2651.7	1167.9	735.5	727.8	777.4	839.1	833.1	769.7	723.5	710.7	708.9
65°	1595.1	820.3	670.4	669.6	704.7	763.7	771.5	720.1	671.3	653.3	653.3
67.5°	788.6	627.6	596.8	592.5	614.8	656.7	689.3	647.3	606.2	589.1	586.5
70°	557.4	553.1	542.8	530.9	535.1	552.3	566.0	530.9	487.2	470.1	466.6
72.5°	482.0	482.9	476.1	466.6	463.2	451.2	439.2	413.6	387.0	369.0	370.7
75°	374.2	375.9	380.2	376.7	367.3	354.5	341.6	309.1	287.7	270.6	267.1
77.5°	218.3	226.9	240.6	237.2	238.9	220.9	215.8	184.1	164.4	152.4	149.8
80°	123.3	128.4	134.4	138.7	133.6	125.9	114.7	97.6	91.6	83.1	81.3
82.5°	74.5	79.6	82.2	85.6	83.9	73.6	65.1	53.9	48.8	44.5	43.7
85°	37.7	41.1	43.7	45.4	40.2	33.4	30.0	24.0	20.5	18.0	18.0
87.5°	9.4	10.3	12.0	10.3	9.4	4.3	3.4	0.9	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)