

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: P633928

Luminaire Tested: GWS-SA2F-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633928  
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-SA2F-760-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

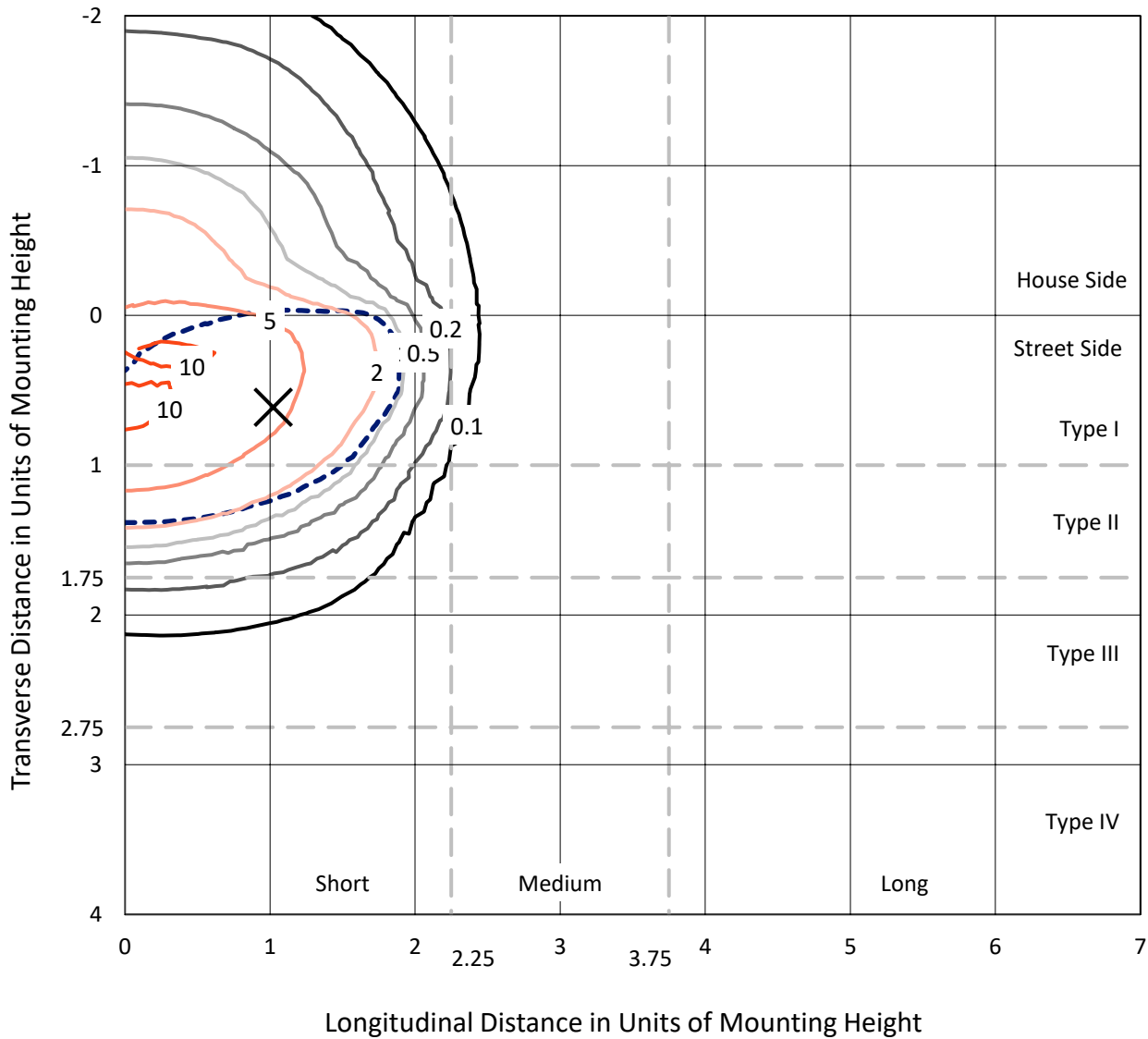
Lumens per Lamp: N/A  
Luminaire Lumens: 14404.6 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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

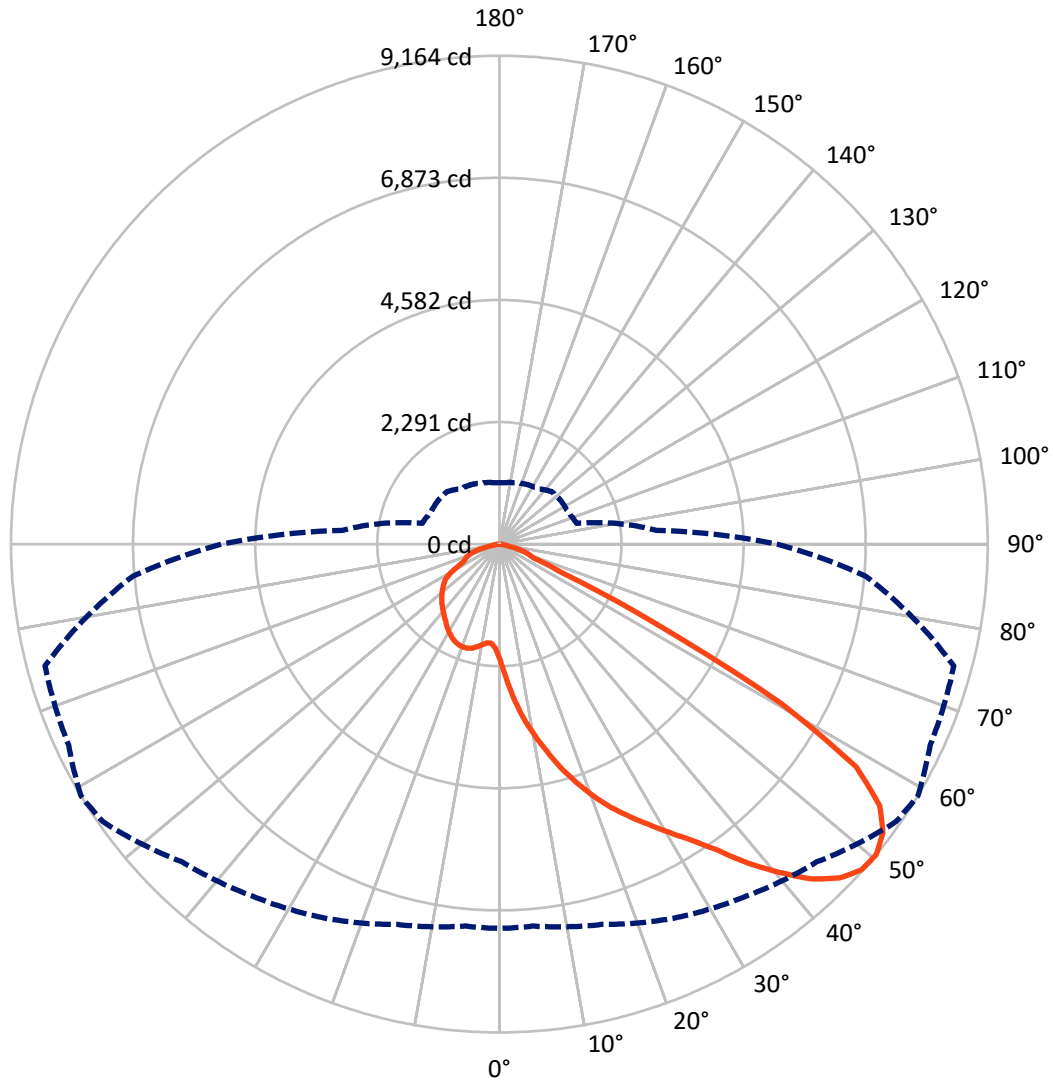
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 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
<b>House Side</b>	Lumens	3313.3	0.0	3313.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	11091.3	0.0	11091.3
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	14404.6	0.0	14404.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.8	1.7
10°-20°	888.8	6.2
20°-30°	1683.0	11.7
30°-40°	2790.9	19.4
40°-50°	3812.5	26.5
50°-60°	3460.8	24.0
60°-70°	1152.5	8.0
70°-80°	336.1	2.3
80°-90°	35.3	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°	14404.6	100.0
0°-180°	14404.6	100.0

**Coefficient of Utilization**



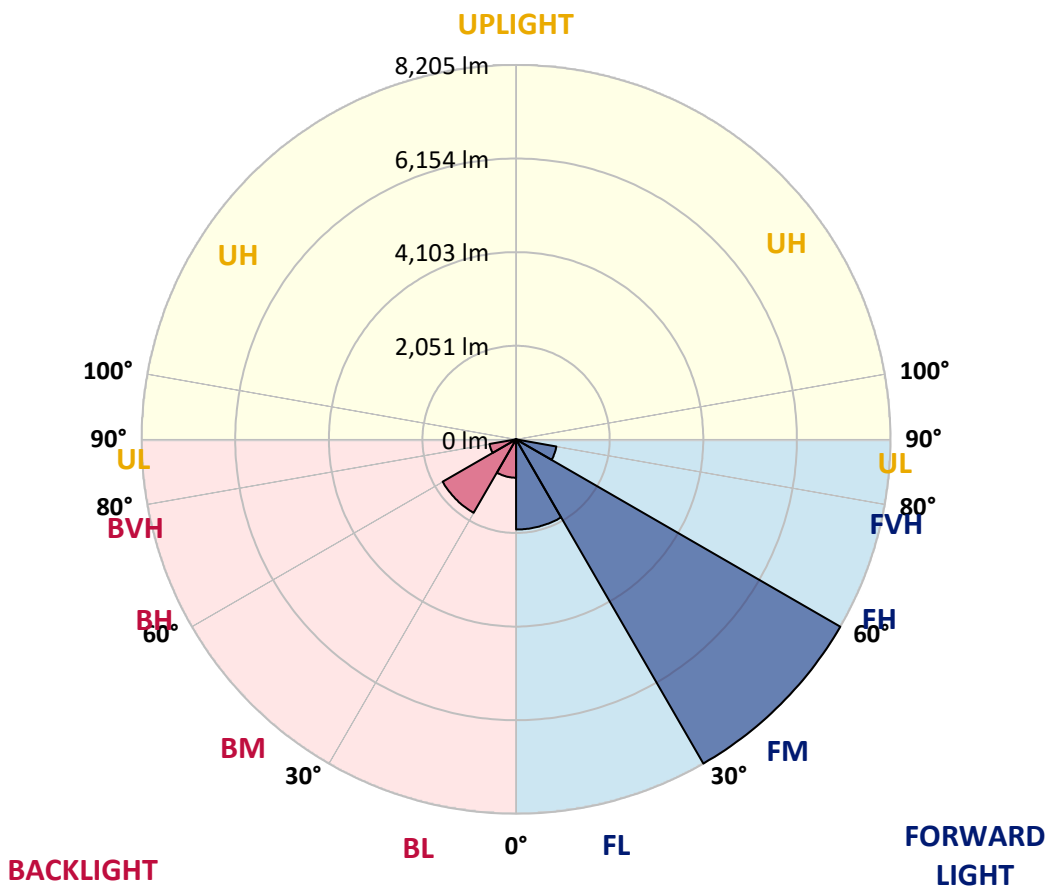
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.2	13.7			
FM (30°-60°)	8205.0	57.0			
FH (60°-80°)	897.2	6.2			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	841.3	5.8	B2/1000		
BM (30°-60°)	1859.1	12.9	B2/2500		
BH (60°-80°)	591.4	4.1	B2/1000		G2/1000
BVH (80°-90°)	21.5	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°	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4
2.5°	2827.7	2848.9	2816.0	2818.3	2736.2	2698.7	2593.1	2530.9	2489.8	2374.8	2270.4
5°	3398.0	3373.3	3347.5	3332.3	3260.7	3159.8	3028.4	2923.9	2827.7	2602.5	2385.4
7.5°	3747.6	3734.7	3717.1	3707.7	3637.3	3531.7	3400.3	3311.1	3171.5	2866.5	2525.0
10°	4044.5	4029.2	4018.7	4025.7	3968.2	3900.2	3757.0	3654.9	3497.7	3145.7	2694.0
12.5°	4274.5	4282.7	4286.2	4323.7	4299.1	4258.0	4110.2	4002.2	3827.4	3440.2	2892.3
15°	4456.3	4454.0	4495.0	4566.6	4606.5	4580.7	4462.2	4371.8	4158.3	3730.0	3105.8
17.5°	4498.6	4500.9	4565.4	4691.0	4821.2	4884.6	4817.7	4709.8	4498.6	4016.3	3327.6
20°	4532.6	4537.3	4604.2	4747.3	4937.4	5114.6	5125.1	5047.7	4865.8	4326.1	3552.9
22.5°	4747.3	4757.9	4775.5	4865.8	5037.1	5261.2	5384.4	5368.0	5215.5	4651.1	3795.7
25°	5311.7	5280.0	5194.3	5168.5	5234.2	5416.1	5626.1	5657.8	5582.7	5009.0	4057.4
27.5°	6008.6	5974.6	5847.9	5714.1	5572.2	5635.5	5859.6	5954.7	5955.8	5403.2	4320.2
30°	6641.1	6614.1	6510.8	6319.6	6074.3	5982.8	6148.3	6276.2	6352.4	5858.5	4619.4
32.5°	7182.0	7157.3	7017.7	6861.6	6622.3	6438.1	6497.9	6621.1	6799.5	6447.5	4991.4
35°	7637.2	7612.6	7478.8	7321.6	7099.8	6989.5	6968.4	7052.9	7284.0	7062.3	5418.5
37.5°	8006.8	7982.2	7842.6	7694.7	7525.8	7532.8	7564.5	7605.5	7738.1	7720.5	5874.9
40°	8246.2	8220.4	8120.6	8015.0	7908.3	7992.7	8150.0	8100.7	8171.1	8252.0	6294.9
42.5°	8353.0	8320.1	8262.6	8239.1	8206.3	8337.7	8640.4	8591.1	8506.7	8606.4	6607.0
45°	8246.2	8218.0	8216.8	8288.4	8364.7	8533.6	8979.5	8939.6	8726.1	8777.7	6793.6
47.5°	7918.8	7894.2	7961.1	8148.8	8336.5	8582.9	9130.9	9137.9	8882.1	8849.3	6914.4
50°	7211.3	7194.9	7388.5	7744.0	8067.8	8429.2	9082.8	9163.7	8919.7	8827.0	6899.2
52.5°	5772.8	5849.1	6270.3	6864.0	7492.9	8159.4	8904.4	9010.0	8739.0	8680.3	6817.1
55°	3951.8	3987.0	4408.2	5275.3	6272.6	7575.0	8494.9	8658.0	8525.4	8655.7	6902.7
57.5°	2046.3	2074.5	2406.5	3176.2	4254.5	5986.3	7358.0	7893.0	8094.8	8780.0	7169.1
60°	840.1	863.6	1000.9	1372.8	2146.0	3486.0	5295.3	6088.4	6562.4	8018.6	6366.5
62.5°	610.1	621.9	687.6	819.0	1124.1	1708.4	2996.7	3288.9	3622.1	5025.4	4042.1
65°	513.9	526.8	579.6	659.4	820.2	1047.8	1280.1	1287.1	1418.6	2047.5	1498.3
67.5°	430.6	442.3	489.3	557.3	662.9	743.9	687.6	688.7	686.4	742.7	718.1
70°	335.6	345.0	391.9	464.6	519.8	477.5	537.4	594.9	570.2	592.5	626.6
72.5°	245.2	255.8	296.9	352.0	337.9	340.3	435.3	494.0	479.9	504.5	536.2
75°	177.2	184.2	205.3	176.0	185.4	224.1	306.2	337.9	352.0	373.1	401.3
77.5°	57.5	57.5	64.5	81.0	100.9	124.4	156.1	169.0	190.1	213.5	233.5
80°	29.3	30.5	36.4	44.6	56.3	71.6	91.5	97.4	107.9	120.9	129.1
82.5°	14.1	15.3	17.6	22.3	29.3	37.5	50.5	56.3	63.4	71.6	77.4
85°	3.5	3.5	4.7	7.0	9.4	14.1	18.8	22.3	28.2	34.0	37.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.2	3.5	4.7	5.9	7.0	9.4
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°	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4	2182.4
2.5°	2223.5	2157.8	2073.3	2001.7	1936.0	1885.5	1842.1	1821.0	1801.1	1787.0	1791.7
5°	2284.5	2171.8	2014.6	1905.5	1838.6	1804.6	1781.1	1769.4	1767.0	1757.7	1754.1
7.5°	2373.7	2212.9	2002.9	1892.6	1848.0	1830.4	1817.5	1810.5	1814.0	1804.6	1801.1
10°	2483.9	2281.0	2032.2	1934.8	1896.1	1883.2	1869.1	1859.7	1855.0	1841.0	1838.6
12.5°	2621.2	2365.4	2085.0	1988.8	1950.1	1927.8	1909.0	1892.6	1882.0	1864.4	1859.7
15°	2769.1	2459.3	2147.2	2041.6	1995.8	1963.0	1932.5	1907.8	1889.1	1865.6	1862.1
17.5°	2929.8	2557.9	2198.8	2078.0	2019.3	1975.9	1931.3	1894.9	1869.1	1838.6	1835.1
20°	3097.6	2657.6	2237.5	2095.6	2020.5	1961.8	1902.0	1853.9	1821.0	1790.5	1788.2
22.5°	3271.3	2749.1	2261.0	2090.9	2001.7	1929.0	1857.4	1803.4	1764.7	1728.3	1726.0
25°	3446.1	2837.1	2266.9	2072.1	1964.2	1879.7	1808.1	1744.7	1701.3	1660.3	1655.6
27.5°	3623.3	2911.0	2252.8	2034.6	1913.7	1822.2	1750.6	1688.4	1643.8	1602.8	1595.7
30°	3812.2	2974.4	2222.3	1985.3	1855.0	1761.2	1690.8	1643.8	1601.6	1560.5	1553.5
32.5°	4014.0	3029.5	2178.9	1925.4	1787.0	1700.2	1648.5	1606.3	1564.1	1527.7	1520.6
35°	4254.5	3065.9	2114.3	1848.0	1723.6	1655.6	1620.4	1571.1	1519.5	1479.6	1476.1
37.5°	4503.3	3094.1	2036.9	1774.1	1668.5	1629.8	1600.4	1533.5	1469.0	1420.9	1415.0
40°	4743.8	3117.5	1940.7	1704.9	1618.0	1611.0	1571.1	1487.8	1376.3	1322.3	1317.7
42.5°	4967.9	3124.6	1839.8	1630.9	1572.3	1568.7	1524.2	1395.1	1309.4	1275.4	1270.7
45°	5121.6	3118.7	1735.4	1561.7	1526.5	1507.7	1460.8	1328.2	1275.4	1244.9	1239.0
47.5°	5235.4	3088.2	1618.0	1489.0	1474.9	1449.1	1348.2	1286.0	1236.7	1206.2	1200.3
50°	5215.5	2961.5	1499.5	1418.6	1412.7	1390.4	1266.0	1233.2	1189.8	1156.9	1152.2
52.5°	5112.2	2721.0	1378.7	1341.1	1352.9	1309.4	1207.4	1169.8	1132.3	1094.7	1086.5
55°	5138.0	2547.3	1287.1	1266.0	1287.1	1188.6	1141.7	1101.8	1066.6	1030.2	1023.1
57.5°	5250.7	2376.0	1189.8	1185.1	1207.4	1095.9	1057.2	1006.7	956.3	926.9	926.9
60°	4409.4	1731.8	1018.5	1030.2	1080.6	1020.8	986.8	935.1	880.0	854.2	854.2
62.5°	2607.1	1086.5	844.8	831.9	863.6	901.1	919.9	877.7	811.9	777.9	779.1
65°	1148.7	790.8	745.1	734.5	725.1	750.9	802.6	806.1	736.9	697.0	698.1
67.5°	707.5	715.7	697.0	688.7	680.5	675.8	671.1	673.5	654.7	618.3	617.2
70°	638.3	660.6	647.7	640.6	630.1	621.9	593.7	547.9	516.3	506.9	517.4
72.5°	549.1	579.6	572.6	569.1	556.2	536.2	498.7	454.1	416.5	393.1	397.8
75°	414.2	438.8	442.3	443.5	429.4	410.7	371.9	334.4	301.5	276.9	282.8
77.5°	238.2	252.3	255.8	259.3	248.7	241.7	215.9	188.9	171.3	145.5	152.5
80°	132.6	138.5	138.5	139.6	133.8	125.5	107.9	92.7	84.5	72.7	73.9
82.5°	79.8	82.1	83.3	84.5	81.0	72.7	59.8	49.3	44.6	38.7	37.5
85°	38.7	41.1	41.1	42.2	36.4	31.7	24.6	18.8	16.4	11.7	12.9
87.5°	9.4	10.6	10.6	9.4	8.2	5.9	3.5	1.2	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)