

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: P632887

Luminaire Tested: GWS-SA2D-750-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-750-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

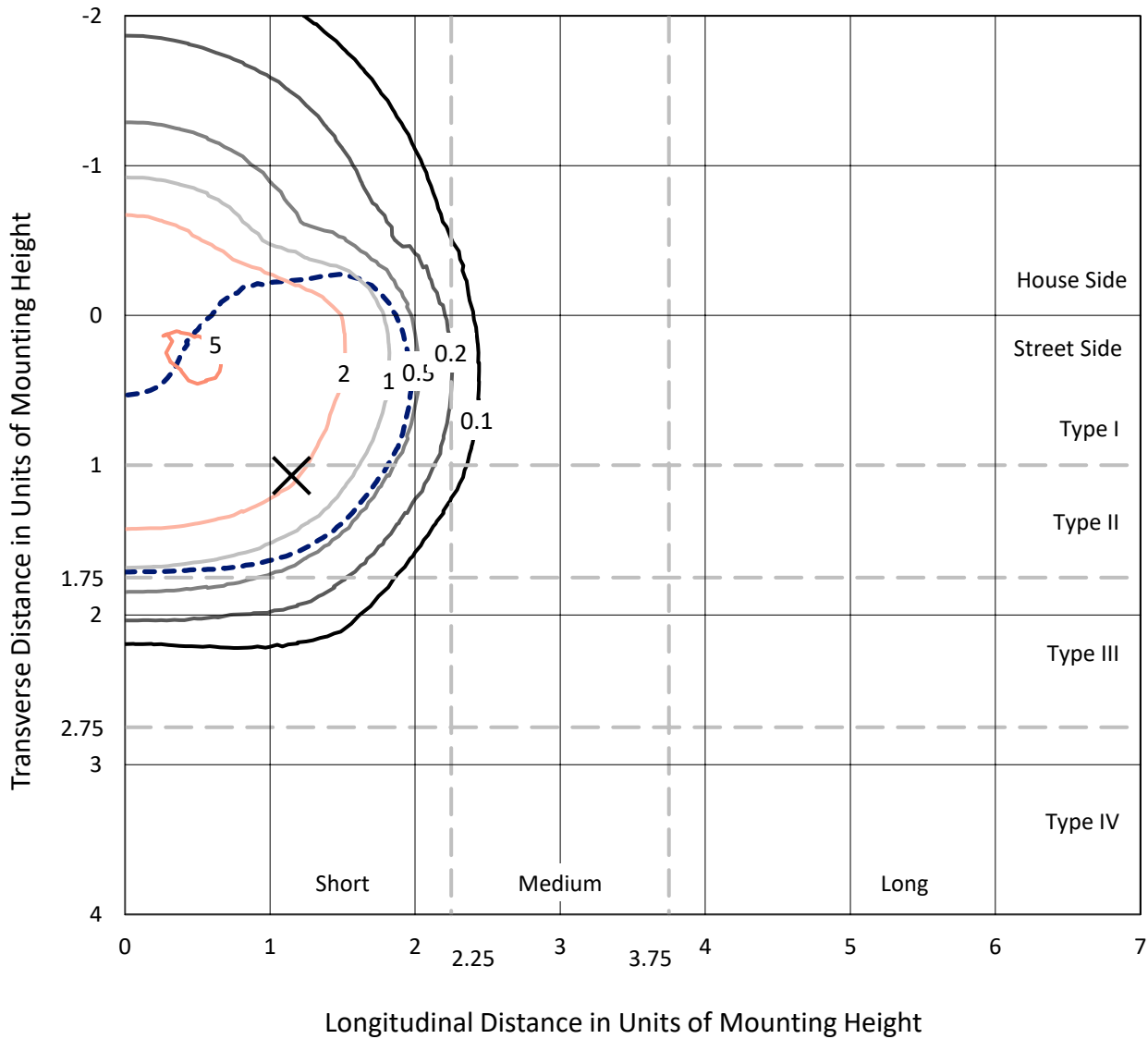
Lumens per Lamp: N/A  
Luminaire Lumens: 10194 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

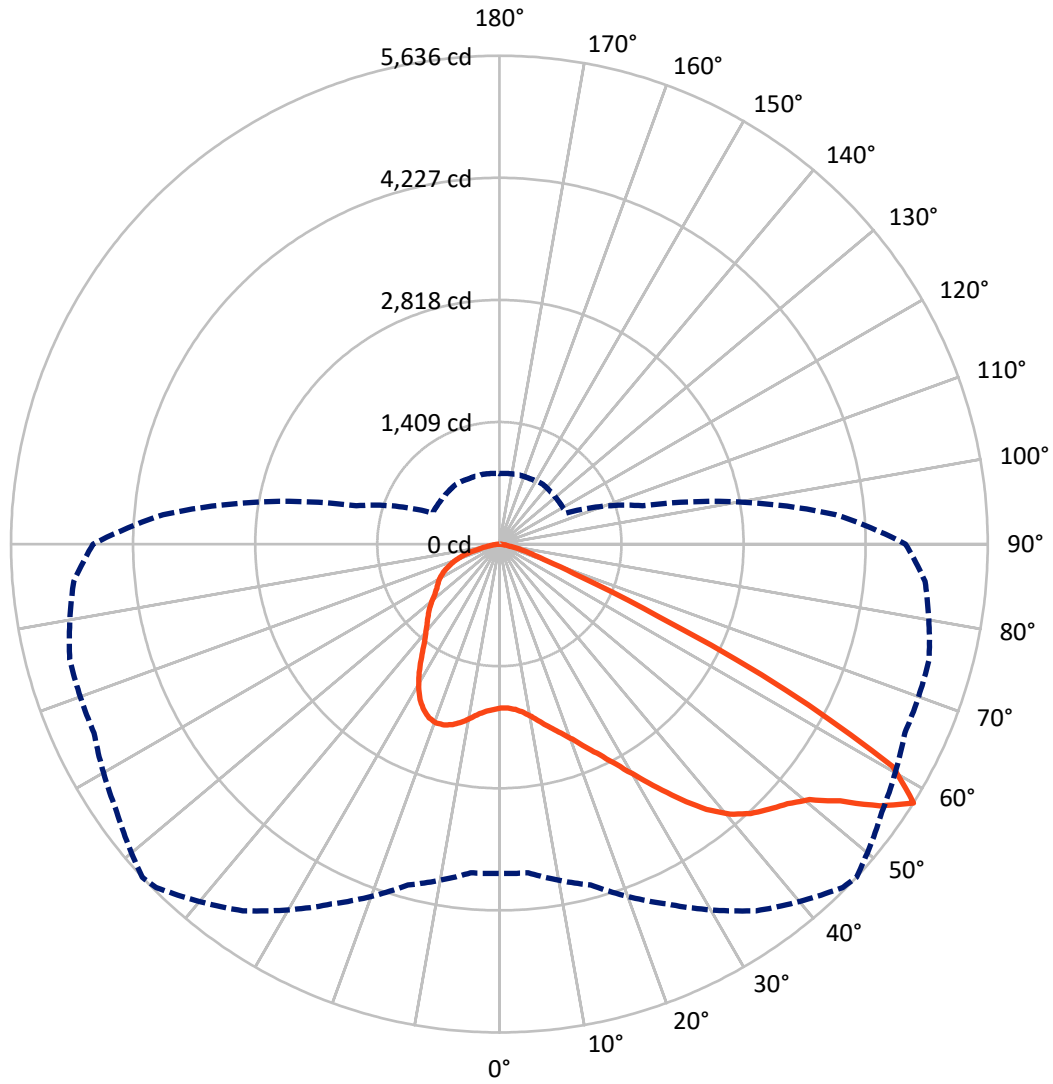
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3226.4	0.0	3226.4
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	6967.6	0.0	6967.6
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	10194.0	0.0	10194.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	1.8
10°-20°	613.3	6.0
20°-30°	1104.3	10.8
30°-40°	1667.9	16.4
40°-50°	2246.0	22.0
50°-60°	2698.9	26.5
60°-70°	1314.4	12.9
70°-80°	323.8	3.2
80°-90°	38.9	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°	10194.0	100.0
0°-180°	10194.0	100.0

**Coefficient of Utilization**



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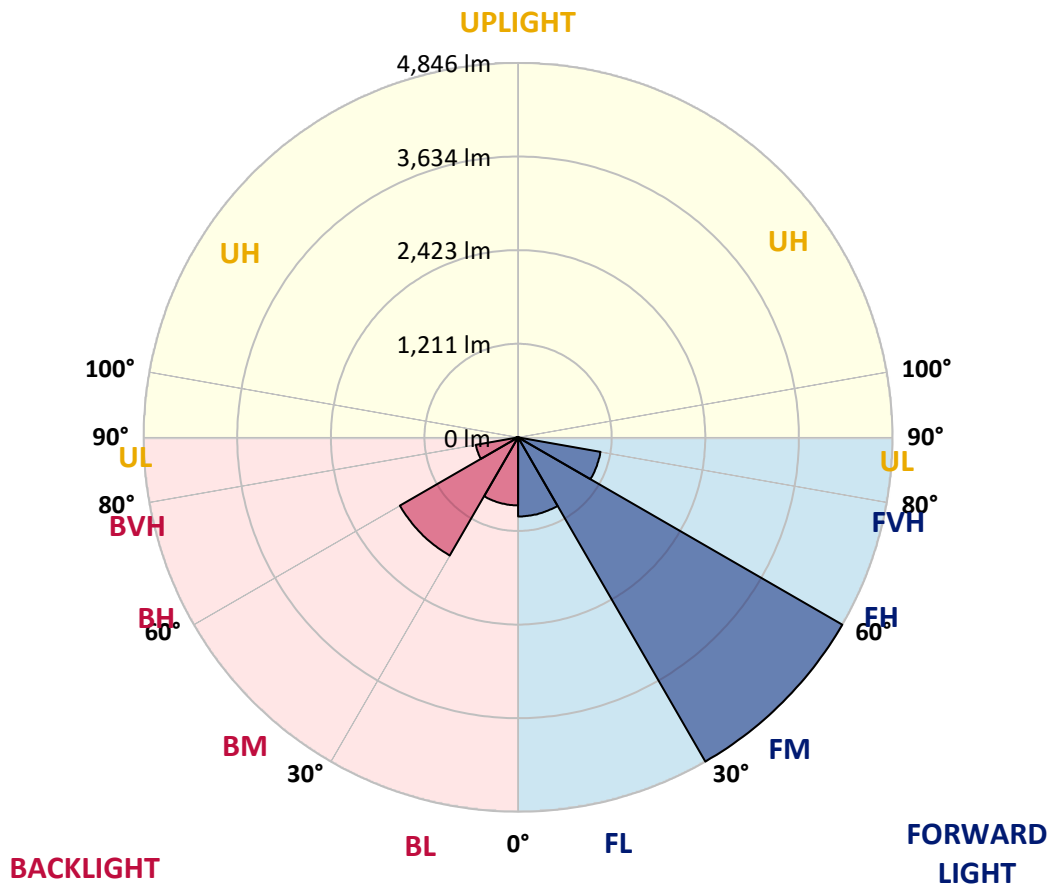
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.9	10.0			
FM (30°-60°)	4845.7	47.5			
FH (60°-80°)	1083.3	10.6			G1/1800
FVH (80°-90°)	14.6	0.1			G1/100
BL (0°-30°)	880.1	8.6	B2/1000		
BM (30°-60°)	1767.1	17.3	B2/2500		
BH (60°-80°)	554.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	24.3	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°	47°	55°	65°	75°	85°
0°	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5
2.5°	1887.1	1886.2	1886.2	1891.3	1891.3	1893.1	1895.6	1898.2	1899.1	1894.8	1885.4
5°	1907.6	1907.6	1907.6	1911.9	1911.9	1913.6	1917.0	1917.9	1917.0	1910.2	1900.8
7.5°	1940.2	1940.2	1941.0	1946.1	1950.4	1953.0	1959.0	1958.1	1955.6	1944.4	1932.4
10°	1993.2	1995.8	1998.4	2004.4	2012.9	2018.9	2023.2	2023.2	2019.8	2002.7	1987.2
12.5°	2068.6	2072.0	2074.6	2079.7	2086.6	2096.8	2106.3	2106.3	2102.0	2080.6	2057.5
15°	2156.8	2160.2	2159.3	2161.1	2173.9	2188.4	2196.2	2201.3	2203.0	2173.0	2137.1
17.5°	2257.8	2261.2	2257.8	2252.7	2254.4	2277.5	2291.2	2310.0	2321.2	2280.9	2223.6
20°	2349.4	2346.0	2346.0	2349.4	2354.6	2382.8	2403.4	2434.2	2447.9	2399.1	2310.0
22.5°	2446.2	2453.9	2450.4	2450.4	2471.0	2518.1	2542.9	2583.2	2597.7	2534.4	2414.5
25°	2571.2	2578.0	2576.3	2578.0	2602.0	2668.8	2693.6	2768.1	2782.7	2691.9	2530.1
27.5°	2708.2	2719.3	2724.4	2722.7	2761.2	2848.6	2879.4	2983.0	3009.5	2868.3	2653.4
30°	2886.3	2898.2	2902.5	2900.8	2946.2	3065.2	3100.3	3218.5	3256.1	3077.2	2810.1
32.5°	3092.6	3104.6	3117.4	3122.6	3180.8	3302.4	3352.9	3475.3	3529.3	3318.6	2999.3
35°	3297.2	3307.5	3332.3	3372.6	3452.2	3576.4	3620.9	3741.6	3793.8	3569.5	3227.9
37.5°	3523.3	3530.1	3551.5	3607.2	3721.9	3840.1	3884.6	4000.2	4006.2	3811.8	3486.5
40°	3770.7	3770.7	3766.4	3821.2	3941.1	4060.1	4098.6	4165.4	4130.3	3998.5	3738.2
42.5°	3980.5	3977.1	3980.5	4031.9	4120.9	4217.6	4251.0	4238.2	4193.7	4141.4	3965.9
45°	4169.7	4172.3	4203.1	4242.5	4288.7	4346.1	4365.8	4293.0	4252.8	4256.2	4148.3
47.5°	4298.1	4300.7	4372.6	4438.5	4466.8	4484.8	4476.2	4375.2	4354.6	4393.2	4288.7
50°	4315.3	4329.0	4453.1	4588.4	4658.6	4661.2	4637.2	4513.9	4507.9	4551.6	4364.1
52.5°	4318.7	4332.4	4487.3	4731.4	4913.7	4952.3	4924.9	4796.4	4733.9	4690.3	4456.5
55°	4305.8	4321.2	4492.5	4827.3	5176.6	5330.7	5333.3	5151.8	4952.3	4923.2	4720.2
57.5°	3801.5	3807.5	4072.9	4583.2	5166.3	5603.0	5636.4	5389.8	5162.0	5134.6	4931.7
60°	2648.2	2672.2	2960.7	3634.6	4340.1	5109.8	5217.7	5145.8	4993.4	4793.9	4231.3
62.5°	1326.3	1346.8	1636.2	2273.2	2993.3	3601.2	3716.8	3793.0	3828.9	3614.9	2881.1
65°	571.1	586.5	766.3	1187.6	1694.4	1988.1	2028.3	2120.0	2344.3	2091.7	1552.3
67.5°	381.9	392.1	483.8	724.3	998.3	1017.2	1011.2	1030.9	1079.7	891.3	701.2
70°	292.8	301.4	363.0	530.8	717.5	613.9	581.4	527.4	572.8	583.9	568.5
72.5°	212.3	219.2	265.4	362.2	449.5	392.1	387.0	414.4	476.0	493.2	483.8
75°	137.0	140.4	168.7	198.6	232.0	251.7	262.0	311.7	374.2	387.0	375.9
77.5°	91.6	94.2	110.4	127.6	131.9	132.7	136.1	158.4	201.2	225.2	222.6
80°	47.9	47.9	53.9	53.9	61.6	73.6	77.1	91.6	111.3	123.3	124.1
82.5°	18.8	19.7	23.1	25.7	30.8	37.7	40.2	47.9	58.2	66.8	74.5
85°	7.7	8.6	9.4	11.1	13.7	17.1	18.0	20.5	27.4	34.2	38.5
87.5°	0.0	0.0	0.9	0.9	1.7	2.6	2.6	3.4	4.3	7.7	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°	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5	1890.5
2.5°	1896.5	1885.4	1896.5	1899.9	1909.3	1912.8	1906.8	1905.9	1905.9	1897.3	1894.8
5°	1909.3	1899.1	1910.2	1915.3	1929.0	1937.6	1939.3	1946.1	1950.4	1947.0	1946.1
7.5°	1941.0	1928.2	1940.2	1947.9	1965.8	1979.5	1985.5	2000.9	2012.1	2010.4	2009.5
10°	1996.7	1979.5	1993.2	2006.1	2025.8	2042.0	2042.9	2051.5	2062.6	2059.2	2057.5
12.5°	2060.9	2044.6	2060.0	2072.9	2096.0	2102.8	2091.7	2088.3	2090.0	2085.7	2082.3
15°	2139.6	2116.5	2130.2	2144.8	2157.6	2149.9	2125.9	2116.5	2115.7	2109.7	2106.3
17.5°	2218.4	2189.3	2199.6	2207.3	2201.3	2177.3	2147.4	2131.1	2123.4	2111.4	2108.0
20°	2296.3	2259.5	2257.8	2251.8	2224.4	2180.7	2140.5	2108.0	2088.3	2072.0	2066.0
22.5°	2385.4	2334.0	2308.3	2280.9	2221.0	2149.9	2089.1	2042.9	2011.2	1990.7	1983.8
25°	2481.3	2408.5	2355.4	2300.6	2186.7	2084.0	1999.2	1935.9	1898.2	1875.9	1868.2
27.5°	2576.3	2476.1	2396.5	2303.2	2118.2	1989.0	1875.1	1789.5	1751.8	1733.8	1727.8
30°	2704.7	2566.0	2445.3	2269.8	2028.3	1857.1	1715.0	1628.5	1603.7	1590.8	1585.7
32.5°	2852.9	2679.9	2510.4	2199.6	1913.6	1703.0	1553.1	1493.2	1476.1	1451.3	1450.4
35°	3048.1	2842.6	2572.0	2096.0	1768.9	1537.7	1429.0	1386.2	1355.4	1316.0	1312.6
37.5°	3275.8	3045.5	2605.4	1964.1	1600.2	1401.6	1336.5	1288.6	1238.9	1186.7	1179.8
40°	3511.3	3282.7	2608.0	1808.3	1435.0	1311.7	1256.9	1194.4	1132.8	1074.5	1066.8
42.5°	3758.7	3503.6	2562.6	1628.5	1299.7	1233.8	1178.1	1099.4	1030.0	990.6	986.3
45°	3979.6	3681.7	2459.9	1439.3	1199.5	1168.7	1097.6	1012.9	976.1	947.8	941.8
47.5°	4153.4	3799.8	2321.2	1269.7	1118.2	1101.9	1009.5	965.8	937.5	911.9	905.9
50°	4239.1	3826.4	2140.5	1131.9	1042.9	1023.2	959.8	926.4	907.6	887.0	881.9
52.5°	4345.2	3856.3	1984.7	1016.3	969.2	942.7	918.7	892.2	878.5	865.6	861.3
55°	4589.2	3969.3	1902.5	923.8	899.0	887.0	883.6	861.3	857.1	848.5	840.8
57.5°	4688.6	3896.6	1708.1	848.5	843.4	845.1	853.6	833.1	828.8	818.5	813.4
60°	3770.7	2945.3	1156.7	783.4	797.1	808.3	816.8	796.3	790.3	788.6	781.7
62.5°	2416.2	1811.7	807.4	722.6	743.2	756.9	762.0	742.3	738.0	751.7	752.6
65°	1257.8	987.2	655.0	657.6	674.7	695.2	705.5	698.7	696.9	711.5	712.4
67.5°	642.2	603.6	571.1	580.5	594.2	620.7	644.7	674.7	685.0	686.7	687.5
70°	547.1	530.0	513.7	519.7	534.3	548.8	571.9	586.5	569.4	565.1	563.4
72.5°	465.8	452.9	445.2	452.1	459.8	457.2	450.4	457.2	459.8	460.6	461.5
75°	362.2	352.8	346.8	347.6	347.6	338.2	325.4	317.7	309.1	302.2	302.2
77.5°	221.8	223.5	229.5	228.6	227.7	224.3	211.5	204.6	184.1	178.1	178.1
80°	126.7	129.3	135.3	137.0	137.0	132.7	119.9	112.2	102.7	98.5	97.6
82.5°	77.1	80.5	83.9	85.6	86.5	81.3	70.2	64.2	59.1	54.8	54.8
85°	40.2	42.0	45.4	46.2	43.7	38.5	32.5	30.0	24.8	24.0	24.0
87.5°	11.1	12.0	13.7	11.1	10.3	7.7	4.3	3.4	1.7	0.9	0.9
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)