

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: P643413

Luminaire Tested: GWS-SA6E-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643413  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

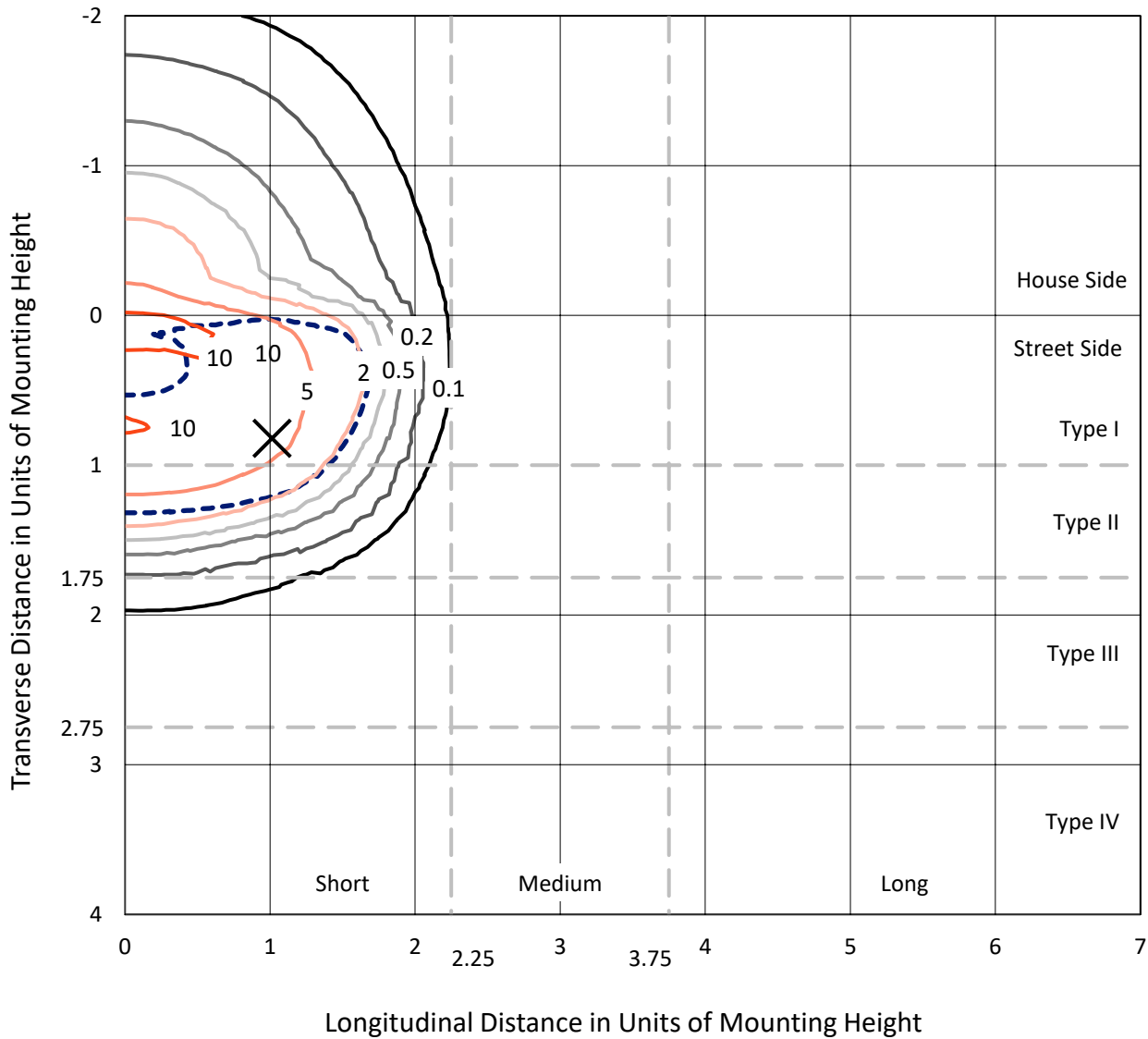
Lumens per Lamp: N/A  
Luminaire Lumens: 32260.5 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

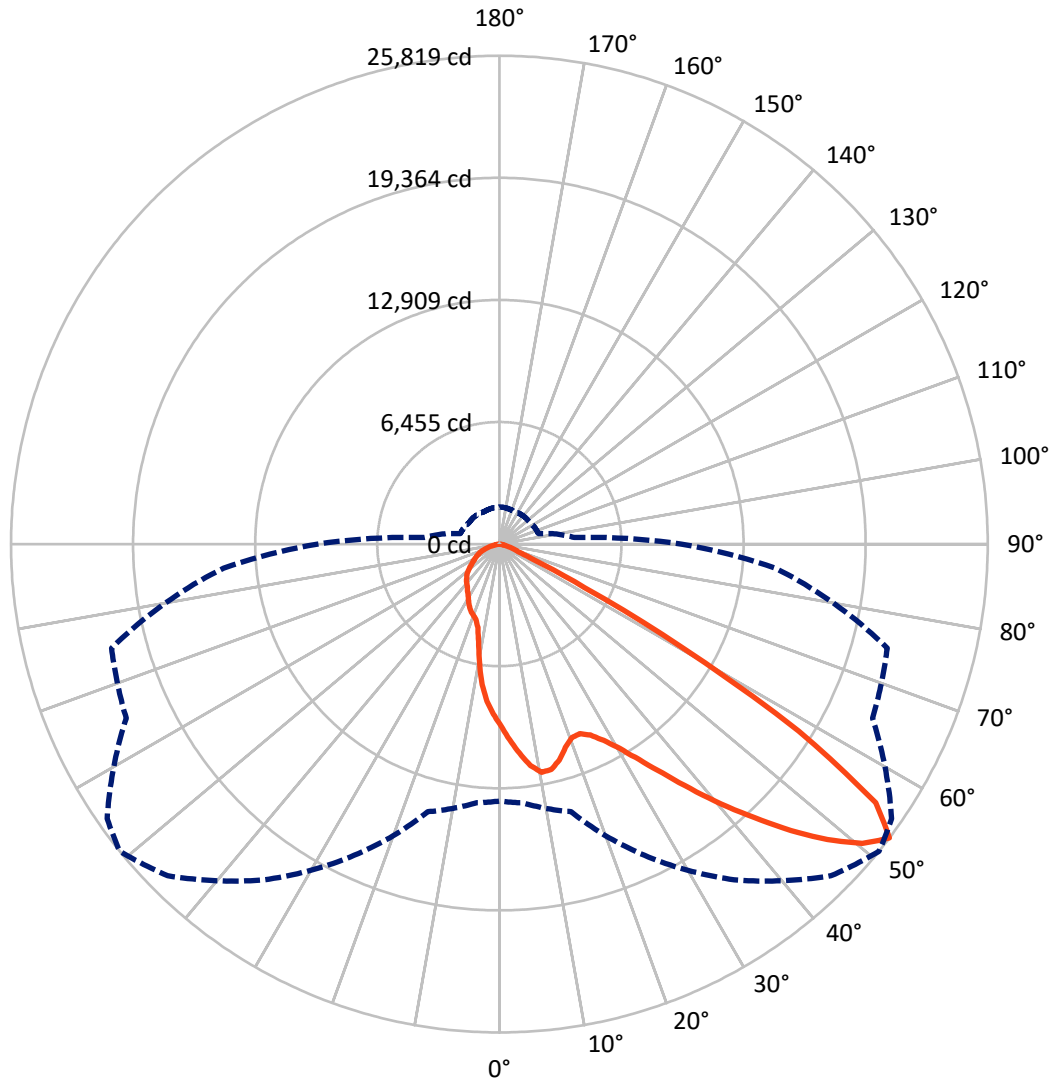
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6285.7	0.0	6285.7
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	25974.8	0.0	25974.8
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	32260.5	0.0	32260.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	896.3	2.8
10°-20°	2329.0	7.2
20°-30°	3786.8	11.7
30°-40°	6001.2	18.6
40°-50°	9051.2	28.1
50°-60°	7830.0	24.3
60°-70°	1775.1	5.5
70°-80°	523.4	1.6
80°-90°	67.4	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°	32260.5	100.0
0°-180°	32260.5	100.0

**Coefficient of Utilization**



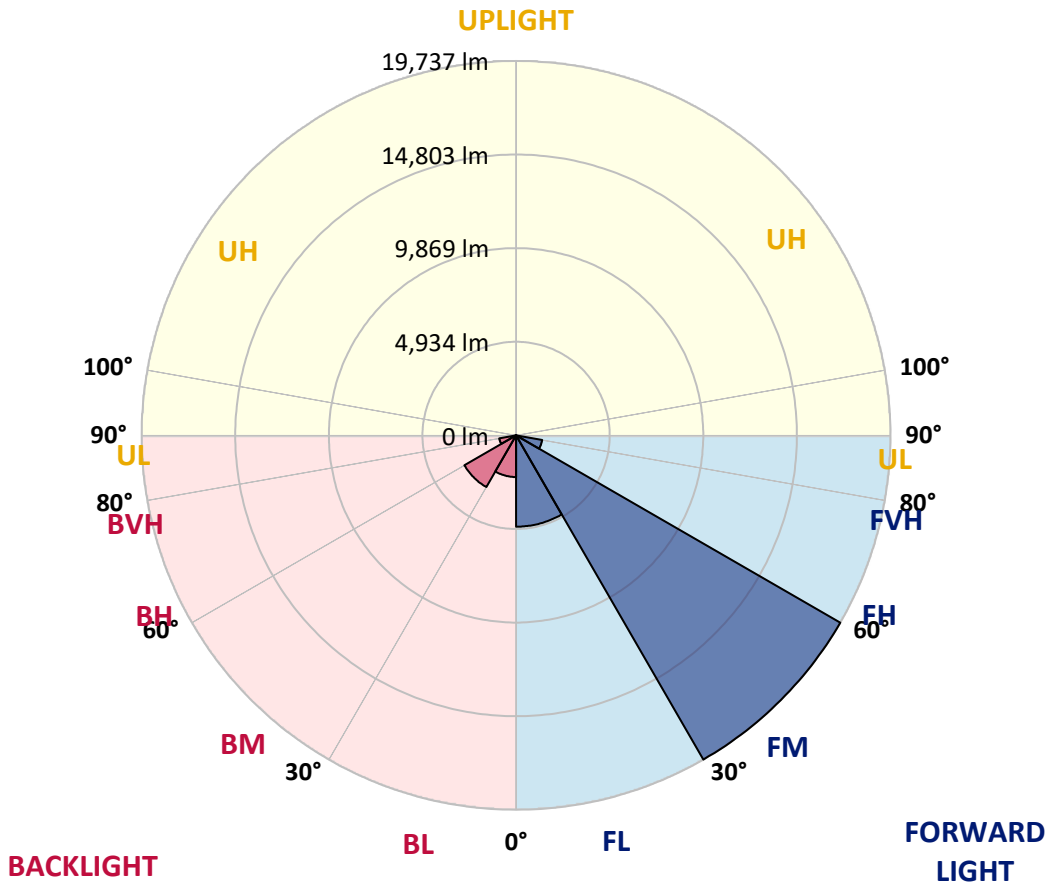
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4815.0	14.9			
FM (30°-60°)	19737.4	61.2			
FH (60°-80°)	1397.0	4.3			G1/1800
FVH (80°-90°)	25.4	0.1			G1/100
BL (0°-30°)	2197.2	6.8	B3/2500		
BM (30°-60°)	3144.9	9.7	B3/5000		
BH (60°-80°)	901.5	2.8	B2/1000		G2/1000
BVH (80°-90°)	42.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6
2.5°	10704.3	10765.5	10671.1	10635.5	10576.8	10474.9	10357.6	10324.4	10072.1	9906.4	9720.3
5°	11780.1	11813.2	11736.7	11660.3	11514.9	11333.9	11107.1	11058.6	10599.8	10219.9	9824.8
7.5°	12019.7	12007.0	12073.2	12116.6	12098.7	12027.3	11826.0	11731.6	11183.5	10581.9	9998.1
10°	11071.4	11000.0	11244.7	11535.3	11884.6	12287.4	12264.4	12256.8	11780.1	11068.8	10219.9
12.5°	9814.6	9778.9	9977.8	10342.3	11002.5	11894.8	12228.7	12488.8	12318.0	11532.8	10467.2
15°	9095.7	9083.0	9218.1	9480.6	10005.8	11132.6	11846.3	12361.3	12779.4	12029.9	10729.8
17.5°	8965.7	8973.3	9019.2	9169.6	9546.9	10474.9	11300.8	12019.7	13138.8	12575.4	11058.6
20°	9345.5	9396.5	9317.5	9340.4	9544.4	10237.8	10928.6	11675.5	13368.2	13123.5	11413.0
22.5°	10189.3	10171.5	9998.1	9896.2	9898.7	10383.1	10887.8	11514.9	13518.7	13656.3	11734.2
25°	11145.3	11124.9	10918.4	10691.5	10548.8	10778.2	11181.0	11685.7	13653.8	14143.2	11991.7
27.5°	12274.6	12210.9	11981.5	11690.8	11374.7	11474.2	11746.9	12147.2	13862.8	14622.5	12162.5
30°	13368.2	13442.2	13113.3	12769.2	12435.2	12374.0	12532.1	12894.1	14288.5	15183.3	12366.4
32.5°	14818.8	14793.3	14428.7	13980.1	13503.4	13457.5	13582.4	13913.8	15053.3	15958.3	12677.4
35°	16575.2	16580.3	16062.8	15456.1	14778.0	14655.6	14864.7	15185.9	16192.8	17008.6	13169.4
37.5°	18400.5	18392.8	17941.6	17253.3	16327.9	16154.6	16394.2	16633.8	17617.8	18438.7	13934.2
40°	19680.2	19731.2	19519.6	19157.6	18280.6	17857.5	18069.1	18234.8	19167.8	20121.2	14941.1
42.5°	20406.7	20483.2	20529.1	20745.8	20284.4	19833.1	19756.7	19843.3	20552.0	21683.9	15886.9
45°	20562.2	20664.2	20998.1	21801.2	21979.6	21852.1	21602.3	21393.3	21584.5	22792.8	16506.4
47.5°	19876.5	20054.9	20768.7	22173.3	23216.0	23616.2	23338.4	23019.7	22181.0	23078.3	16442.6
50°	17159.0	17368.0	18976.6	21413.7	23391.9	24850.1	24875.5	24403.9	22109.6	22254.9	15642.2
52.5°	13584.9	13727.7	14648.0	18153.2	21666.0	24799.1	25818.8	25314.0	21765.5	21225.0	14640.3
55°	8119.3	8348.8	9207.9	11976.4	16878.6	21979.6	24151.6	24396.3	21597.2	20360.8	13957.1
57.5°	2740.4	2852.6	3673.5	5289.7	9947.2	16093.4	18660.5	19654.7	19606.3	19040.3	12623.9
60°	1305.2	1330.7	1496.4	2006.3	3981.9	8410.0	11045.9	12193.0	13238.2	13342.8	7854.2
62.5°	994.2	1009.5	1093.6	1203.2	1600.9	3543.5	5062.8	5939.7	6345.1	5445.2	2860.3
65°	831.1	843.8	907.5	976.4	1088.5	1534.6	1942.5	2240.8	2019.0	1572.9	1363.8
67.5°	693.4	703.6	752.0	826.0	902.4	1027.3	1078.3	1108.9	1162.5	1305.2	1254.2
70°	543.0	553.2	604.2	667.9	741.8	772.4	820.9	851.4	958.5	1142.1	1137.0
72.5°	418.1	430.8	458.9	499.7	560.8	591.4	645.0	680.6	741.8	889.7	950.9
75°	305.9	313.6	339.0	351.8	359.4	351.8	405.3	446.1	527.7	583.8	599.1
77.5°	124.9	140.2	135.1	135.1	160.6	193.7	221.8	247.3	303.4	336.5	339.0
80°	51.0	56.1	66.3	73.9	89.2	114.7	132.6	142.8	168.3	188.6	203.9
82.5°	30.6	33.1	38.2	40.8	51.0	66.3	76.5	84.1	104.5	124.9	132.6
85°	15.3	15.3	17.8	20.4	25.5	30.6	35.7	40.8	53.5	66.3	73.9
87.5°	2.5	2.5	2.5	5.1	7.6	10.2	12.7	15.3	17.8	20.4	25.5
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°	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6	9605.6
2.5°	9610.7	9473.0	9312.4	9184.9	9037.1	8927.5	8772.0	8675.1	8583.3	8506.8	8450.8
5°	9620.9	9388.9	9054.9	8759.2	8453.3	8162.7	7864.4	7622.2	7405.6	7224.6	7209.3
7.5°	9679.5	9345.5	8822.9	8305.4	7708.9	7132.8	6556.7	6087.6	5730.7	5544.6	5506.4
10°	9778.9	9340.4	8585.9	7759.9	6742.8	5814.8	5131.6	4774.7	4568.2	4494.3	4468.8
12.5°	9883.4	9327.7	8282.5	6990.0	5577.8	4764.5	4389.8	4346.5	4384.7	4389.8	4387.3
15°	10010.9	9320.0	7900.1	6087.6	4726.3	4277.6	4303.1	4394.9	4484.1	4504.5	4504.5
17.5°	10166.4	9302.2	7380.1	5205.6	4193.5	4183.3	4318.4	4440.8	4524.9	4540.2	4540.2
20°	10329.5	9256.3	6740.2	4486.7	3976.8	4124.7	4270.0	4364.3	4422.9	4443.3	4445.9
22.5°	10441.7	9133.9	6003.5	3953.9	3841.7	4012.5	4117.0	4213.9	4213.9	4162.9	4147.6
25°	10464.7	8871.4	5205.6	3589.3	3681.1	3839.2	3946.2	3890.1	3785.6	3744.8	3742.3
27.5°	10380.5	8489.0	4417.8	3329.3	3487.4	3645.4	3627.6	3546.0	3500.1	3459.3	3474.6
30°	10278.6	8030.1	3734.6	3115.2	3263.0	3418.5	3357.4	3329.3	3296.2	3250.3	3260.5
32.5°	10209.7	7517.7	3209.5	2949.5	3112.6	3138.1	3181.5	3178.9	3148.3	3061.6	3056.5
35°	10230.1	7000.2	2857.7	2814.4	2987.7	2977.5	3059.1	3043.8	2832.2	2712.4	2704.8
37.5°	10393.3	6503.1	2651.2	2707.3	2788.9	2852.6	2924.0	2740.4	2666.5	2590.0	2595.1
40°	10704.3	6041.7	2539.0	2648.7	2669.1	2763.4	2597.7	2595.1	2562.0	2493.2	2490.6
42.5°	11056.1	5651.7	2462.6	2620.6	2592.6	2610.4	2434.5	2454.9	2452.4	2409.0	2396.3
45°	11270.2	5292.2	2401.4	2516.1	2523.8	2345.3	2291.8	2314.7	2327.5	2304.5	2302.0
47.5°	11048.4	4879.3	2337.7	2355.5	2421.8	2225.5	2159.2	2161.8	2184.7	2187.3	2177.1
50°	10426.4	4417.8	2261.2	2217.8	2174.5	2100.6	2039.4	2026.7	2049.6	2072.5	2080.2
52.5°	9623.4	3976.8	2133.7	2067.4	1965.5	1965.5	1937.4	1896.6	1927.2	1957.8	1968.0
55°	9034.5	3650.5	1952.7	1878.8	1766.6	1804.9	1799.8	1764.1	1804.9	1827.8	1835.5
57.5°	7828.7	2934.2	1718.2	1695.2	1600.9	1646.8	1657.0	1611.1	1590.7	1595.8	1603.5
60°	4647.3	1894.1	1549.9	1547.4	1463.3	1516.8	1547.4	1501.5	1440.3	1448.0	1458.2
62.5°	2085.3	1448.0	1338.4	1328.2	1325.6	1394.4	1427.6	1384.2	1297.6	1305.2	1315.4
65°	1312.9	1251.7	1162.5	1162.5	1203.2	1261.9	1287.4	1251.7	1152.3	1139.5	1149.7
67.5°	1218.5	1165.0	1073.2	1055.4	1075.8	1124.2	1126.8	1057.9	999.3	989.1	989.1
70°	1093.6	1052.8	963.6	927.9	920.3	917.7	910.1	892.2	854.0	843.8	848.9
72.5°	905.0	876.9	820.9	782.6	762.2	759.7	729.1	713.8	680.6	675.6	673.0
75°	599.1	606.7	606.7	601.6	583.8	576.1	543.0	527.7	489.5	474.2	471.6
77.5°	354.3	362.0	372.2	374.7	372.2	372.2	341.6	323.8	285.5	265.1	260.0
80°	216.7	221.8	226.9	234.5	224.3	216.7	188.6	170.8	153.0	140.2	137.7
82.5°	140.2	145.3	147.9	153.0	147.9	137.7	114.7	104.5	91.8	81.6	79.0
85°	79.0	81.6	86.7	86.7	79.0	71.4	58.6	51.0	43.3	38.2	38.2
87.5°	28.0	28.0	28.0	30.6	25.5	22.9	15.3	10.2	7.6	7.6	7.6
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)