

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: P639728

Luminaire Tested: GWS-SA5C-740-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639728  
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-SA5C-740-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

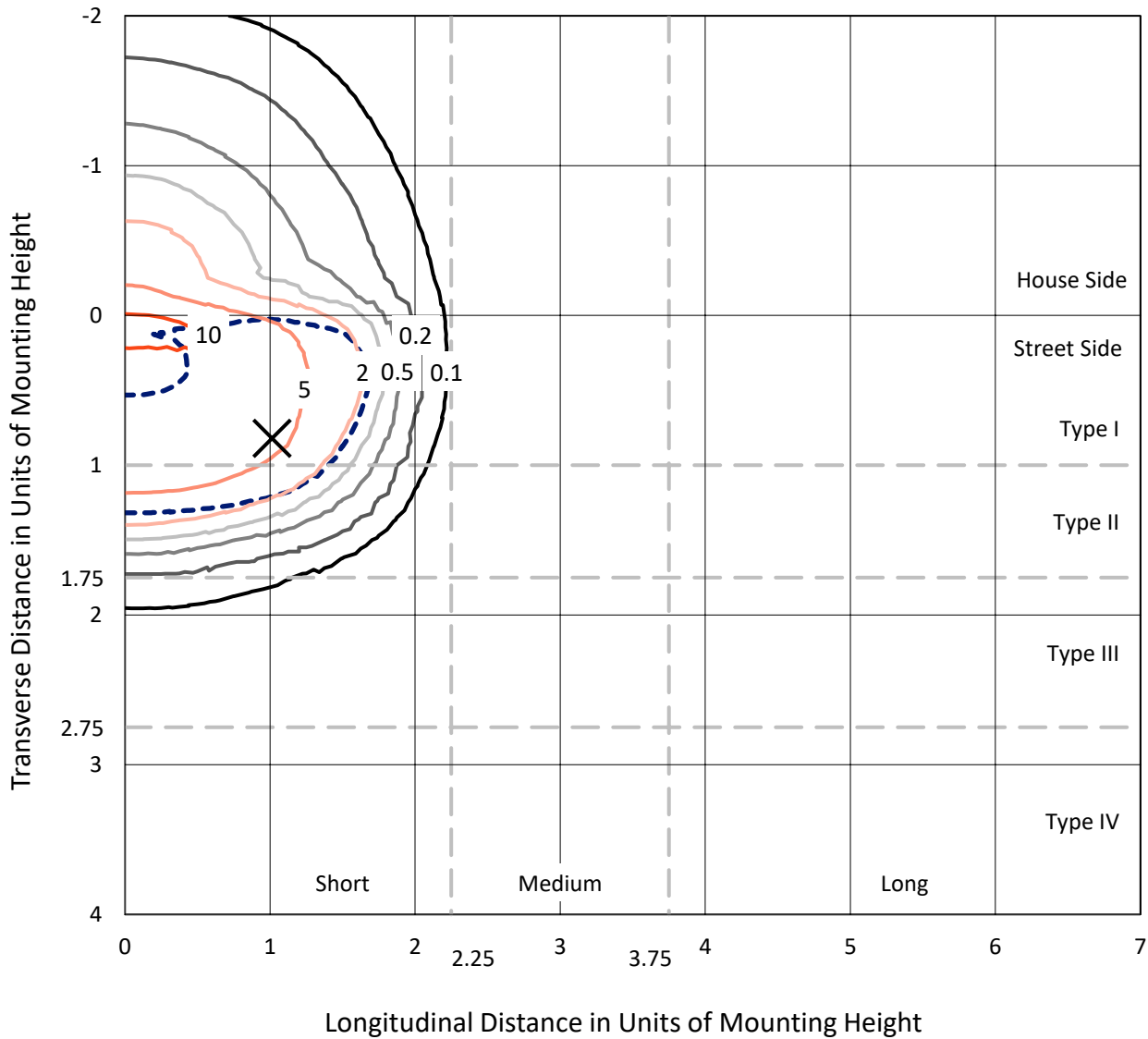
Lumens per Lamp: N/A  
Luminaire Lumens: 21602.7 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

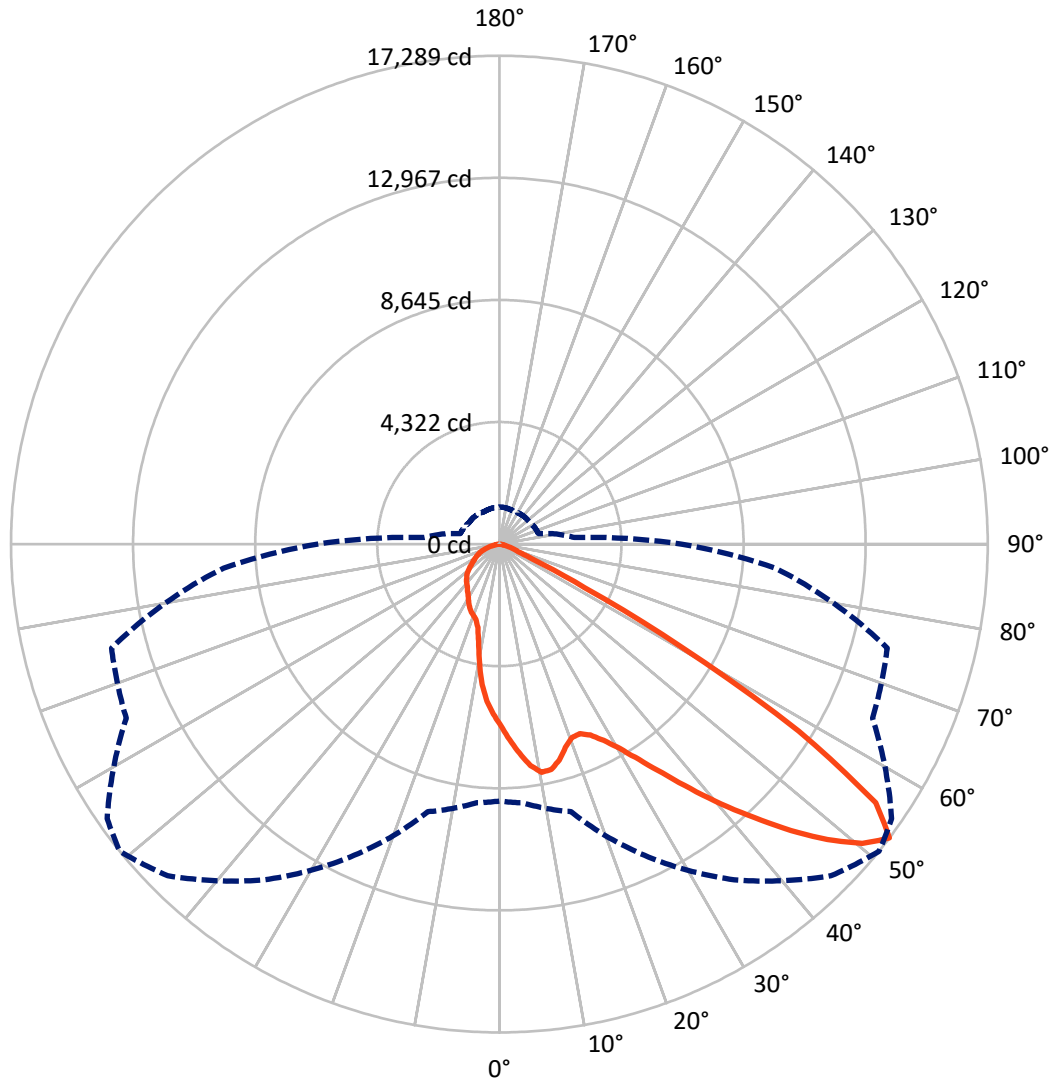
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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	4209.1	0.0	4209.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17393.6	0.0	17393.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	21602.7	0.0	21602.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.2	2.8
10°-20°	1559.6	7.2
20°-30°	2535.8	11.7
30°-40°	4018.6	18.6
40°-50°	6061.0	28.1
50°-60°	5243.2	24.3
60°-70°	1188.7	5.5
70°-80°	350.5	1.6
80°-90°	45.1	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°	21602.7	100.0
0°-180°	21602.7	100.0

**Coefficient of Utilization**



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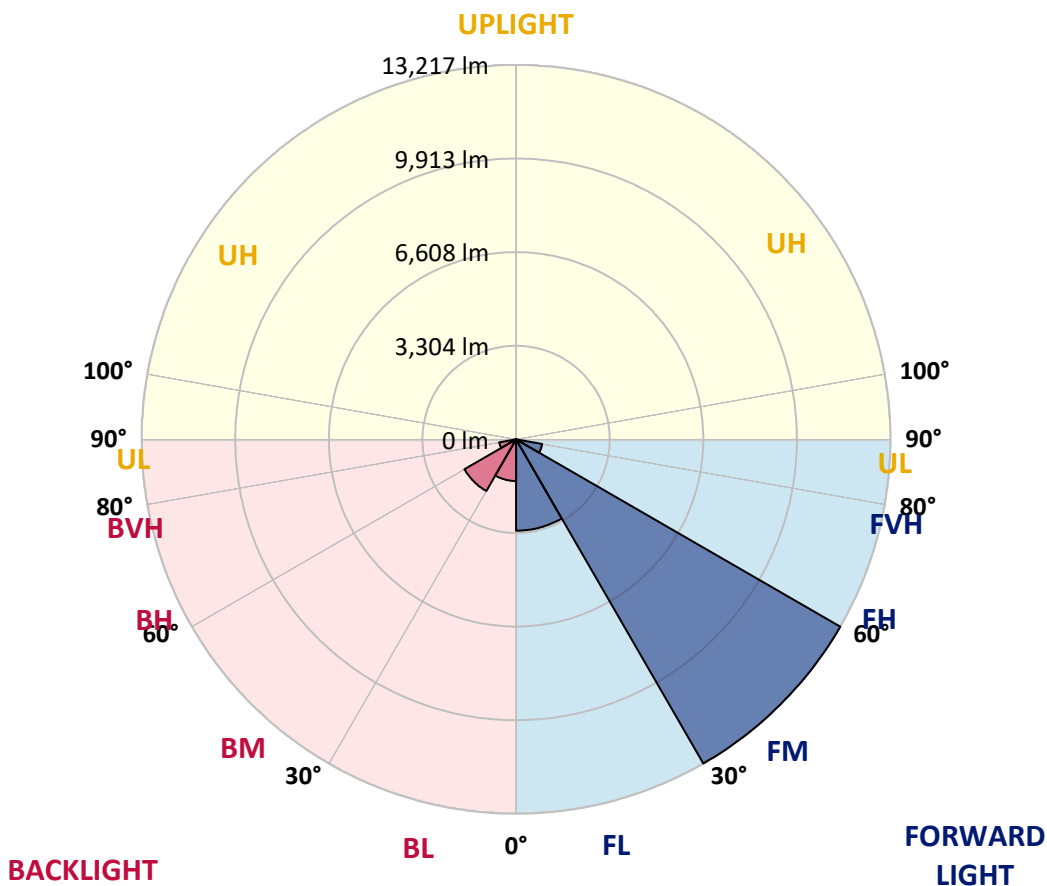
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3224.3	14.9			
FM (30°-60°)	13216.9	61.2			
FH (60°-80°)	935.5	4.3			G1/1800
FVH (80°-90°)	17.0	0.1			G1/100
BL (0°-30°)	1471.3	6.8	B3/2500		
BM (30°-60°)	2106.0	9.7	B2/2500		
BH (60°-80°)	603.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	28.1	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°	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2
2.5°	7167.9	7208.9	7145.8	7121.9	7082.6	7014.3	6935.8	6913.6	6744.6	6633.6	6509.0
5°	7888.3	7910.5	7859.3	7808.1	7710.8	7589.6	7437.7	7405.2	7098.0	6843.6	6579.0
7.5°	8048.8	8040.3	8084.6	8113.7	8101.7	8053.9	7919.1	7855.9	7488.9	7086.0	6695.1
10°	7413.8	7366.0	7529.8	7724.4	7958.3	8228.0	8212.7	8207.5	7888.3	7412.1	6843.6
12.5°	6572.2	6548.3	6681.4	6925.5	7367.7	7965.1	8188.8	8362.9	8248.5	7722.7	7009.2
15°	6090.8	6082.3	6172.7	6348.6	6700.2	7454.7	7932.7	8277.5	8557.5	8055.6	7185.0
17.5°	6003.7	6008.9	6039.6	6140.3	6392.9	7014.3	7567.4	8048.8	8798.2	8420.9	7405.2
20°	6258.1	6292.2	6239.3	6254.7	6391.2	6855.6	7318.2	7818.3	8951.8	8787.9	7642.5
22.5°	6823.1	6811.2	6695.1	6626.8	6628.5	6952.9	7290.9	7710.8	9052.5	9144.7	7857.6
25°	7463.3	7449.6	7311.3	7159.4	7063.8	7217.4	7487.2	7825.2	9143.0	9470.8	8030.0
27.5°	8219.5	8176.8	8023.2	7828.6	7616.9	7683.5	7866.1	8134.1	9283.0	9791.7	8144.4
30°	8951.8	9001.3	8781.1	8550.7	8327.0	8286.1	8391.9	8634.3	9568.1	10167.2	8280.9
32.5°	9923.1	9906.1	9662.0	9361.5	9042.3	9011.6	9095.2	9317.1	10080.2	10686.2	8489.2
35°	11099.3	11102.7	10756.2	10349.9	9895.8	9813.9	9953.9	10169.0	10843.2	11389.5	8818.7
37.5°	12321.6	12316.4	12014.3	11553.4	10933.7	10817.6	10978.1	11138.6	11797.5	12347.2	9330.8
40°	13178.5	13212.6	13071.0	12828.6	12241.3	11958.0	12099.6	12210.6	12835.4	13473.8	10005.1
42.5°	13665.0	13716.2	13747.0	13892.1	13583.1	13280.9	13229.7	13287.8	13762.3	14520.3	10638.4
45°	13769.1	13837.4	14061.1	14598.8	14718.3	14632.9	14465.6	14325.6	14453.7	15262.8	11053.2
47.5°	13309.9	13429.4	13907.4	14848.0	15546.2	15814.2	15628.1	15414.8	14853.1	15454.0	11010.5
50°	11490.2	11630.2	12707.4	14339.3	15664.0	16640.4	16657.5	16341.7	14805.3	14902.6	10474.5
52.5°	9096.9	9192.5	9808.8	12156.0	14508.3	16606.3	17289.1	16951.1	14574.9	14213.0	9803.6
55°	5437.0	5590.6	6165.9	8019.8	11302.4	14718.3	16172.7	16336.6	14462.2	13634.3	9346.2
57.5°	1835.1	1910.2	2459.9	3542.1	6660.9	10776.7	12495.7	13161.4	13129.0	12750.0	8453.4
60°	874.0	891.1	1002.0	1343.5	2666.4	5631.6	7396.7	8164.9	8864.8	8934.8	5259.5
62.5°	665.8	676.0	732.3	805.7	1072.0	2372.8	3390.2	3977.4	4248.9	3646.3	1915.3
65°	556.5	565.0	607.7	653.8	728.9	1027.7	1300.8	1500.5	1352.0	1053.3	913.3
67.5°	464.3	471.1	503.6	553.1	604.3	687.9	722.1	742.6	778.4	874.0	839.9
70°	363.6	370.4	404.6	447.2	496.8	517.2	549.7	570.2	641.9	764.8	761.3
72.5°	280.0	288.5	307.3	334.6	375.6	396.0	431.9	455.8	496.8	595.8	636.7
75°	204.8	210.0	227.0	235.6	240.7	235.6	271.4	298.7	353.4	390.9	401.2
77.5°	83.6	93.9	90.5	90.5	107.5	129.7	148.5	165.6	203.1	225.3	227.0
80°	34.1	37.6	44.4	49.5	59.7	76.8	88.8	95.6	112.7	126.3	136.6
82.5°	20.5	22.2	25.6	27.3	34.1	44.4	51.2	56.3	70.0	83.6	88.8
85°	10.2	10.2	11.9	13.7	17.1	20.5	23.9	27.3	35.8	44.4	49.5
87.5°	1.7	1.7	1.7	3.4	5.1	6.8	8.5	10.2	11.9	13.7	17.1
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°	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2	6432.2
2.5°	6435.6	6343.4	6235.9	6150.5	6051.5	5978.1	5874.0	5809.1	5747.7	5696.5	5658.9
5°	6442.4	6287.1	6063.5	5865.5	5660.6	5466.0	5266.3	5104.1	4959.0	4837.8	4827.6
7.5°	6481.7	6258.1	5908.1	5561.6	5162.1	4776.4	4390.6	4076.5	3837.5	3712.9	3687.2
10°	6548.3	6254.7	5749.4	5196.3	4515.2	3893.8	3436.3	3197.3	3059.1	3009.5	2992.5
12.5°	6618.3	6246.1	5546.2	4680.8	3735.0	3190.5	2939.6	2910.5	2936.1	2939.6	2937.9
15°	6703.6	6241.0	5290.2	4076.5	3164.9	2864.4	2881.5	2943.0	3002.7	3016.4	3016.4
17.5°	6807.8	6229.1	4941.9	3485.8	2808.1	2801.3	2891.8	2973.7	3030.0	3040.3	3040.3
20°	6917.0	6198.3	4513.5	3004.4	2663.0	2762.0	2859.3	2922.5	2961.7	2975.4	2977.1
22.5°	6992.1	6116.4	4020.1	2647.6	2572.5	2686.9	2756.9	2821.8	2821.8	2787.6	2777.4
25°	7007.5	5940.6	3485.8	2403.5	2465.0	2570.8	2642.5	2605.0	2535.0	2507.7	2506.0
27.5°	6951.1	5684.5	2958.3	2229.4	2335.3	2441.1	2429.1	2374.5	2343.8	2316.5	2326.7
30°	6882.9	5377.2	2500.8	2086.0	2185.0	2289.2	2248.2	2229.4	2207.2	2176.5	2183.3
32.5°	6836.8	5034.1	2149.2	1975.1	2084.3	2101.4	2130.4	2128.7	2108.2	2050.2	2046.8
35°	6850.4	4687.6	1913.6	1884.6	2000.7	1993.8	2048.5	2038.2	1896.5	1816.3	1811.2
37.5°	6959.7	4354.7	1775.3	1812.9	1867.5	1910.2	1958.0	1835.1	1785.6	1734.4	1737.8
40°	7167.9	4045.7	1700.2	1773.6	1787.3	1850.5	1739.5	1737.8	1715.6	1669.5	1667.8
42.5°	7403.5	3784.6	1649.0	1754.9	1736.1	1748.0	1630.2	1643.9	1642.2	1613.2	1604.6
45°	7546.9	3543.9	1608.1	1684.9	1690.0	1570.5	1534.6	1550.0	1558.5	1543.2	1541.5
47.5°	7398.4	3267.3	1565.4	1577.3	1621.7	1490.3	1445.9	1447.6	1463.0	1464.7	1457.8
50°	6981.9	2958.3	1514.2	1485.1	1456.1	1406.6	1365.6	1357.1	1372.5	1387.8	1393.0
52.5°	6444.2	2663.0	1428.8	1384.4	1316.1	1316.1	1297.4	1270.1	1290.5	1311.0	1317.9
55°	6049.8	2444.5	1307.6	1258.1	1183.0	1208.6	1205.2	1181.3	1208.6	1224.0	1229.1
57.5°	5242.4	1964.8	1150.6	1135.2	1072.0	1102.8	1109.6	1078.9	1065.2	1068.6	1073.7
60°	3112.0	1268.3	1037.9	1036.2	979.9	1015.7	1036.2	1005.5	964.5	969.6	976.4
62.5°	1396.4	969.6	896.2	889.4	887.7	933.8	956.0	926.9	868.9	874.0	880.8
65°	879.1	838.2	778.4	778.4	805.7	845.0	862.1	838.2	771.6	763.1	769.9
67.5°	816.0	780.1	718.7	706.7	720.4	752.8	754.5	708.4	669.2	662.3	662.3
70°	732.3	705.0	645.3	621.4	616.2	614.5	609.4	597.5	571.9	565.0	568.5
72.5°	606.0	587.2	549.7	524.1	510.4	508.7	488.2	478.0	455.8	452.4	450.7
75°	401.2	406.3	406.3	402.9	390.9	385.8	363.6	353.4	327.8	317.5	315.8
77.5°	237.3	242.4	249.2	250.9	249.2	249.2	228.7	216.8	191.2	177.5	174.1
80°	145.1	148.5	151.9	157.0	150.2	145.1	126.3	114.4	102.4	93.9	92.2
82.5°	93.9	97.3	99.0	102.4	99.0	92.2	76.8	70.0	61.5	54.6	52.9
85°	52.9	54.6	58.0	58.0	52.9	47.8	39.3	34.1	29.0	25.6	25.6
87.5°	18.8	18.8	18.8	20.5	17.1	15.4	10.2	6.8	5.1	5.1	5.1
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)