

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: P640731

Luminaire Tested: GWS-SA5E-740-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-740-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36783 lumens  
Efficiency: N/A  
Efficacy: 136.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
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

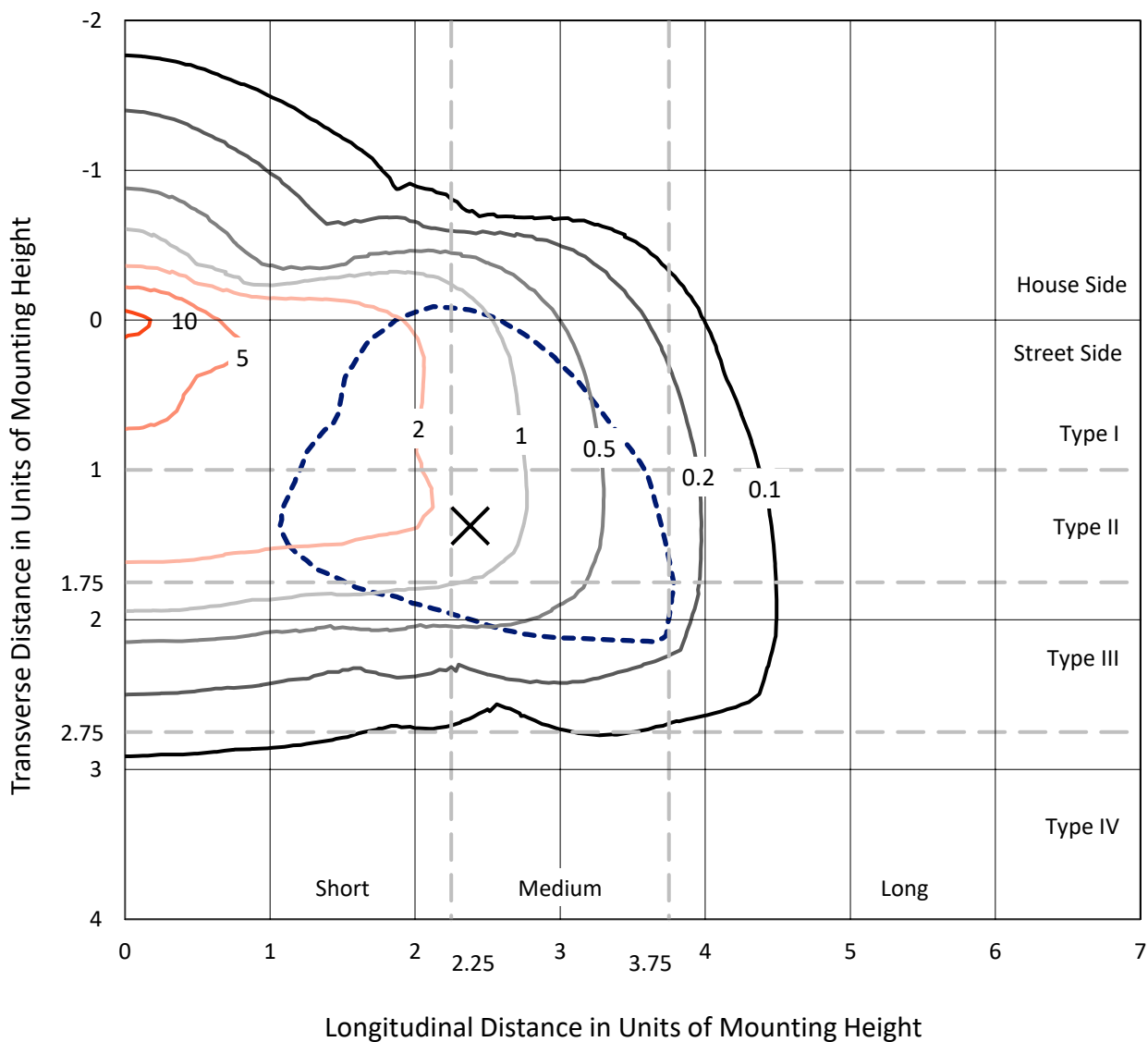


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### Iso-Footcandle Lines of Horizontal Illumination

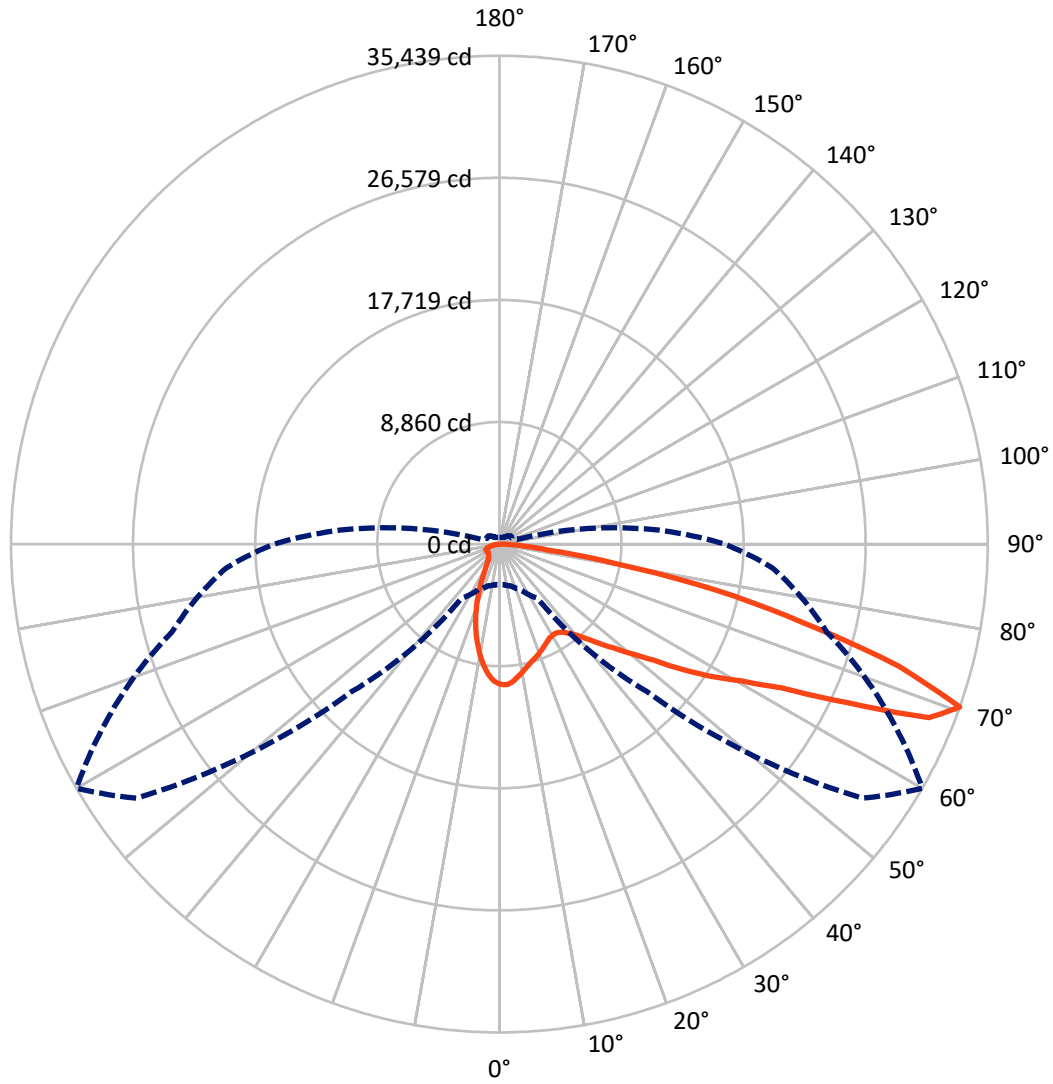
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6290.8	0.0	6290.8
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	30492.2	0.0	30492.2
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	36783.0	0.0	36783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	877.3	2.4
10°-20°	1965.5	5.3
20°-30°	2517.2	6.8
30°-40°	3308.2	9.0
40°-50°	4799.6	13.0
50°-60°	7488.5	20.4
60°-70°	9803.9	26.7
70°-80°	5421.2	14.7
80°-90°	601.6	1.6
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°	36783.0	100.0
0°-180°	36783.0	100.0

**Coefficient of Utilization**



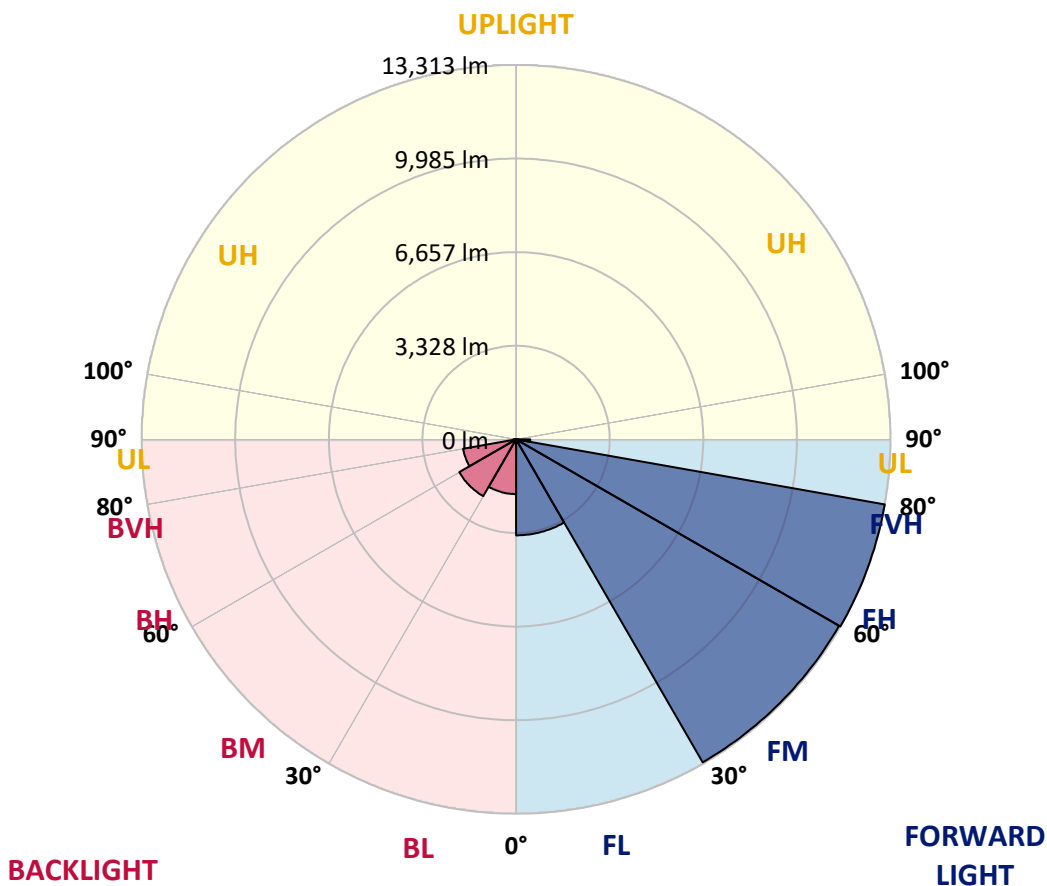
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3413.7	9.3			
FM (30°-60°)	13263.8	36.1			
FH (60°-80°)	13313.4	36.2			G5
FVH (80°-90°)	501.3	1.4			G4/750
BL (0°-30°)	1946.3	5.3	B3/2500		
BM (30°-60°)	2332.4	6.3	B2/2500		
BH (60°-80°)	1911.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	100.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3
2.5°	10035.7	10046.5	10076.1	10119.1	10162.2	10183.7	10237.5	10221.4	10210.6	10189.1	10162.2
5°	9591.6	9613.2	9640.1	9723.5	9817.7	9893.1	10014.2	10027.6	10033.0	10043.8	10000.7
7.5°	9026.5	9031.9	9096.4	9206.8	9330.6	9459.8	9661.6	9718.1	9766.6	9820.4	9785.4
10°	8402.1	8415.6	8464.0	8622.8	8835.4	9026.5	9298.3	9392.5	9494.8	9613.2	9564.7
12.5°	7890.8	7893.5	7971.5	8141.1	8372.5	8630.9	8970.0	9083.0	9217.6	9403.3	9360.2
15°	7484.4	7484.4	7557.0	7702.4	7968.8	8272.9	8676.6	8821.9	9004.9	9255.2	9179.9
17.5°	7161.4	7164.1	7209.9	7363.3	7600.1	7936.5	8415.6	8612.0	8813.9	9144.9	9031.9
20°	6991.9	6978.4	6986.5	7080.7	7282.5	7608.2	8154.5	8383.3	8655.1	9069.5	8897.3
22.5°	6983.8	6959.6	6924.6	6932.7	7051.1	7320.2	7874.6	8151.8	8493.6	9007.6	8760.0
25°	7121.1	7094.2	7032.3	6962.3	6951.5	7113.0	7610.9	7925.8	8326.7	8980.7	8628.2
27.5°	7352.5	7333.7	7252.9	7148.0	7037.6	7032.3	7411.7	7740.1	8205.6	9007.6	8534.0
30°	7659.3	7627.0	7575.9	7441.3	7274.5	7102.2	7333.7	7640.5	8124.9	9093.8	8493.6
32.5°	8006.5	7987.6	7939.2	7804.6	7627.0	7352.5	7395.6	7662.0	8124.9	9244.5	8501.7
35°	8375.2	8372.5	8372.5	8283.7	8087.2	7745.4	7640.5	7845.0	8248.7	9486.7	8587.8
37.5°	8733.1	8730.4	8816.6	8848.9	8625.5	8256.8	8057.6	8211.0	8520.5	9844.6	8800.4
40°	9023.8	9034.5	9222.9	9384.4	9260.6	8918.8	8638.9	8717.0	8961.9	10353.3	9171.8
42.5°	9317.1	9346.7	9629.3	9914.6	9963.0	9667.0	9384.4	9430.2	9594.3	11026.1	9726.2
45°	9637.4	9650.8	10046.5	10444.8	10678.9	10504.0	10272.5	10334.4	10372.1	11857.7	10552.4
47.5°	9946.9	9981.9	10493.2	11039.5	11483.6	11467.4	11338.3	11319.4	11327.5	12869.6	11529.3
50°	10369.4	10420.5	11020.7	11680.1	12331.3	12630.1	12667.7	12525.1	12465.9	13994.5	12745.8
52.5°	11171.4	11171.4	11709.7	12358.2	13232.9	13973.0	14226.0	13991.8	13803.5	15184.1	14037.6
55°	12175.2	12218.3	12646.2	13171.0	14279.8	15385.9	16241.7	15983.4	15450.5	16478.6	15391.3
57.5°	12622.0	12675.8	13354.0	14169.5	15649.7	16992.6	18179.4	18087.9	17310.2	17824.2	16796.1
60°	11814.6	11927.6	12861.5	14228.7	16890.3	19584.3	20421.3	20154.8	19043.3	19237.1	18319.4
62.5°	9855.4	9979.2	11015.3	12923.4	16718.1	22385.9	23954.9	22972.6	21207.1	21021.4	20348.6
65°	5880.4	5875.0	7121.1	9650.8	14594.7	23163.6	29547.3	27714.6	24549.6	23470.4	22437.0
67.5°	3738.2	3730.1	3991.1	5113.4	9712.7	21258.2	33142.8	33619.2	29089.8	25270.9	22609.2
70°	2949.6	2946.9	3135.3	3646.7	4803.9	15127.6	32141.7	35438.5	31832.2	24584.6	19907.2
72.5°	2150.3	2155.7	2446.4	3054.6	3705.9	7594.7	26027.1	30322.4	29278.2	21702.3	16161.0
75°	1544.8	1552.9	1727.8	2338.7	3417.9	4152.6	17307.5	22800.3	22275.5	17396.3	11117.6
77.5°	982.3	993.1	1146.5	1639.0	2761.2	3353.3	10493.2	16096.4	14820.7	9801.6	3953.5
80°	600.2	635.1	764.3	1221.8	2206.8	2516.3	5245.3	8480.1	7422.5	2688.6	1329.5
82.5°	309.5	336.4	460.2	756.2	1520.6	2209.5	2968.5	3563.2	2298.3	1124.9	707.8
85°	96.9	113.0	161.5	306.8	723.9	1369.8	1964.6	1770.8	1055.0	530.2	328.3
87.5°	24.2	24.2	26.9	26.9	29.6	61.9	379.5	401.0	279.9	166.9	134.6
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°	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3	10178.3
2.5°	10108.4	10043.8	10016.9	10014.2	9946.9	9850.0	9785.4	9739.7	9712.7	9707.4	9707.4
5°	9928.0	9844.6	9734.3	9650.8	9470.5	9287.5	9134.1	9048.0	8948.4	8935.0	8932.3
7.5°	9688.5	9567.4	9357.5	9123.4	8808.5	8504.4	8246.0	8071.1	7896.1	7863.9	7853.1
10°	9430.2	9266.0	8908.1	8496.3	8025.3	7570.5	7174.9	6865.4	6660.9	6515.5	6488.6
12.5°	9174.5	8956.5	8431.7	7818.1	7172.2	6550.5	5955.8	5449.8	5083.8	4871.2	4833.5
15°	8935.0	8630.9	7912.3	7129.1	6289.5	5439.0	4596.7	3940.0	3426.0	3243.0	3199.9
17.5°	8717.0	8337.5	7409.0	6416.0	5369.1	4257.6	3299.5	2715.5	2414.1	2322.6	2301.0
20°	8499.0	8036.1	6897.7	5665.1	4392.1	3146.1	2411.4	2136.9	2023.8	1988.8	1978.1
22.5°	8264.8	7705.1	6340.6	4925.0	3404.4	2354.8	1972.7	1851.6	1816.6	1819.3	1816.6
25°	8030.7	7368.7	5756.6	4120.3	2535.2	1910.8	1722.4	1676.7	1684.7	1708.9	1714.3
27.5°	7836.9	7069.9	5183.4	3237.6	1980.8	1644.4	1555.5	1552.9	1582.5	1614.8	1620.1
30°	7697.0	6803.5	4618.2	2489.4	1630.9	1461.4	1426.4	1442.5	1477.5	1501.7	1509.8
32.5°	7597.4	6574.7	4015.4	1956.5	1429.1	1332.2	1316.0	1332.2	1353.7	1377.9	1383.3
35°	7562.4	6407.9	3423.3	1595.9	1291.8	1238.0	1227.2	1235.3	1246.1	1259.5	1264.9
37.5°	7640.5	6324.5	2804.3	1388.7	1208.4	1176.1	1159.9	1154.5	1157.2	1162.6	1165.3
40°	7871.9	6362.1	2298.3	1267.6	1154.5	1124.9	1098.0	1087.3	1084.6	1090.0	1087.3
42.5°	8270.2	6520.9	1932.3	1197.6	1111.5	1068.4	1038.8	1028.1	1028.1	1041.5	1041.5
45°	8854.2	6833.1	1668.6	1146.5	1073.8	1020.0	987.7	982.3	993.1	1014.6	1017.3
47.5°	9710.1	7290.6	1509.8	1108.8	1038.8	976.9	944.6	941.9	963.5	998.5	1001.1
50°	10724.7	7950.0	1423.7	1081.9	1014.6	941.9	909.6	912.3	936.6	974.2	982.3
52.5°	11946.5	8848.9	1429.1	1071.1	1001.1	920.4	888.1	882.7	907.0	944.6	952.7
55°	13208.7	9941.5	1534.0	1073.8	982.3	909.6	866.6	847.7	869.3	896.2	898.9
57.5°	14597.4	11174.1	1795.1	1068.4	958.1	898.9	847.7	804.7	818.1	834.3	842.4
60°	16163.7	12624.7	2357.5	1079.2	947.3	874.7	810.1	753.6	750.9	761.6	764.3
62.5°	18257.5	14597.4	2990.0	1098.0	971.5	845.1	753.6	694.3	683.6	689.0	691.7
65°	19858.8	15539.3	2790.8	1081.9	1022.7	823.5	699.7	637.8	616.3	610.9	610.9
67.5°	19207.5	14293.3	1943.1	1038.8	1046.9	826.2	656.7	578.6	551.7	538.3	535.6
70°	16344.0	11610.1	1351.0	995.8	1020.0	820.8	610.9	530.2	495.2	476.4	473.7
72.5°	12912.6	8865.0	1092.7	909.6	925.8	740.1	543.6	476.4	446.7	422.5	422.5
75°	8310.6	5409.4	912.3	810.1	756.2	575.9	471.0	425.2	395.6	371.4	371.4
77.5°	2796.2	2007.7	707.8	686.3	565.2	433.3	395.6	366.0	341.8	320.3	317.6
80°	1135.7	952.7	519.4	519.4	395.6	331.0	309.5	296.0	279.9	253.0	253.0
82.5°	659.4	578.6	363.3	314.9	263.7	228.8	215.3	201.8	201.8	183.0	183.0
85°	317.6	320.3	218.0	193.8	150.7	131.9	126.5	118.4	115.7	105.0	102.3
87.5°	172.2	174.9	110.3	86.1	59.2	51.1	43.1	40.4	37.7	35.0	35.0
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)