

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: P638258

Luminaire Tested: GWS-SA4E-740-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638258  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

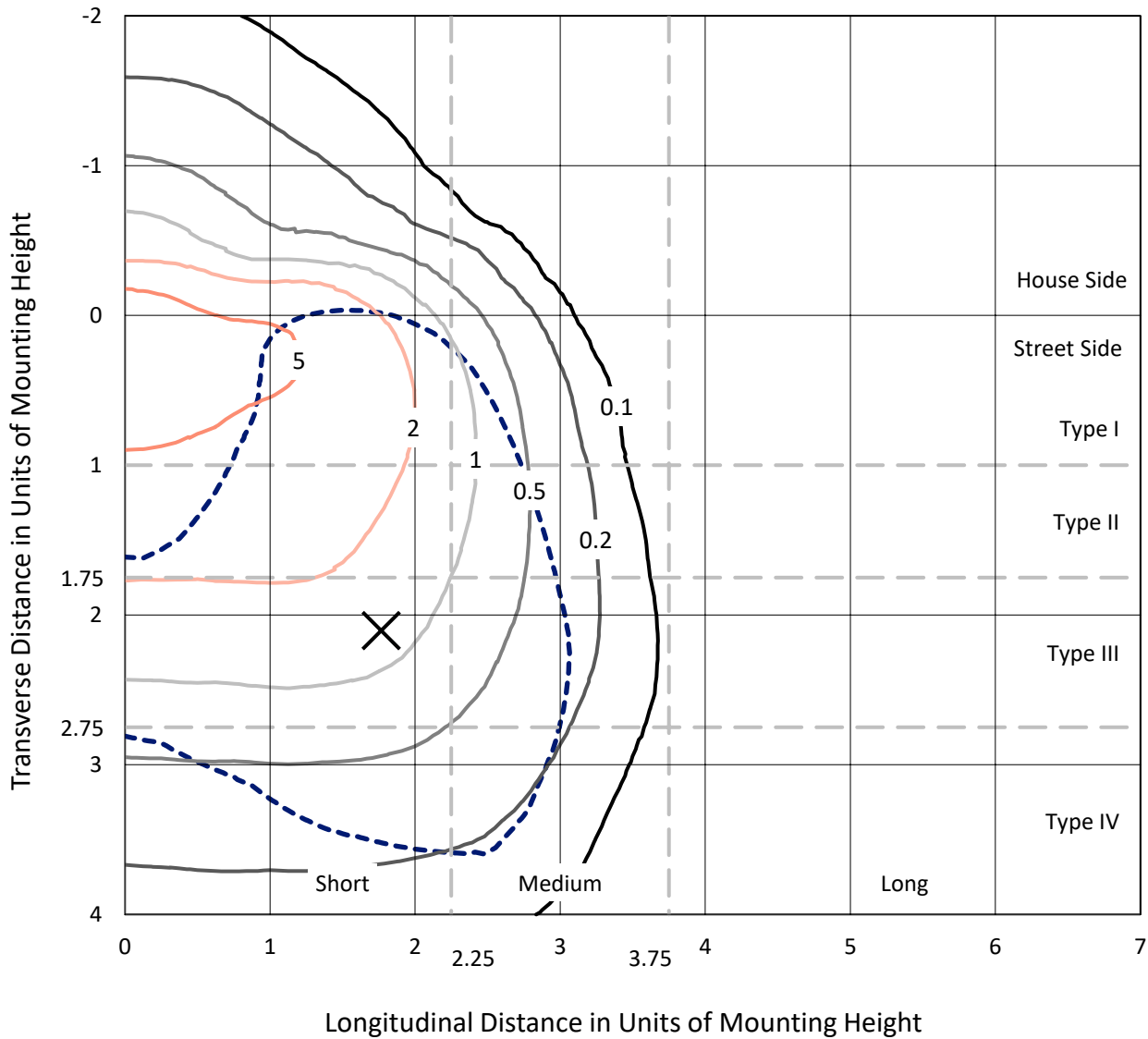
Lumens per Lamp: N/A  
Luminaire Lumens: 29390.5 lumens  
Efficiency: N/A  
Efficacy: 145.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

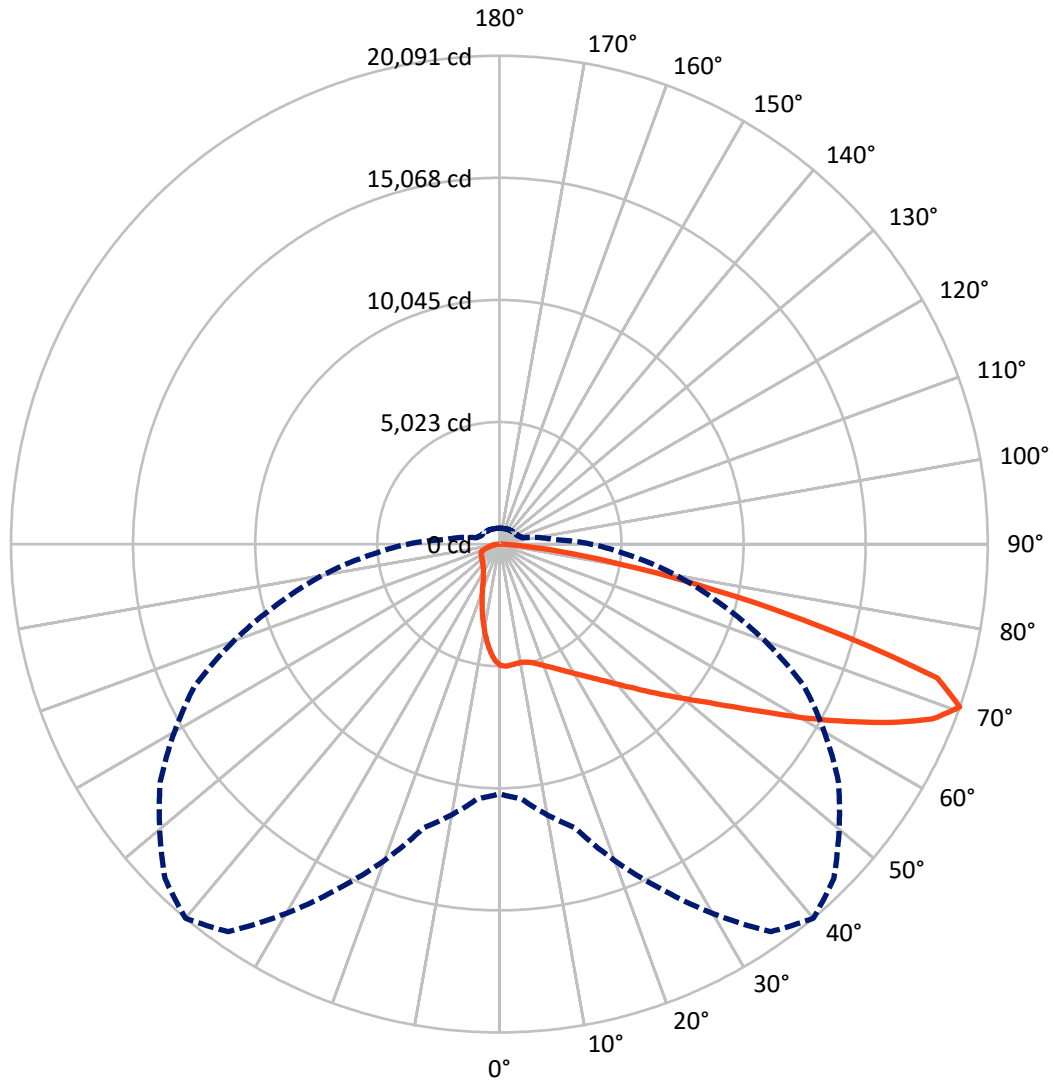
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4526.9	0.0	4526.9
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	24863.6	0.0	24863.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	29390.5	0.0	29390.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	440.9	1.5
10°-20°	1149.2	3.9
20°-30°	1804.5	6.1
30°-40°	2713.1	9.2
40°-50°	4187.8	14.2
50°-60°	6219.2	21.2
60°-70°	7839.2	26.7
70°-80°	4533.4	15.4
80°-90°	503.1	1.7
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°	29390.5	100.0
0°-180°	29390.5	100.0

**Coefficient of Utilization**



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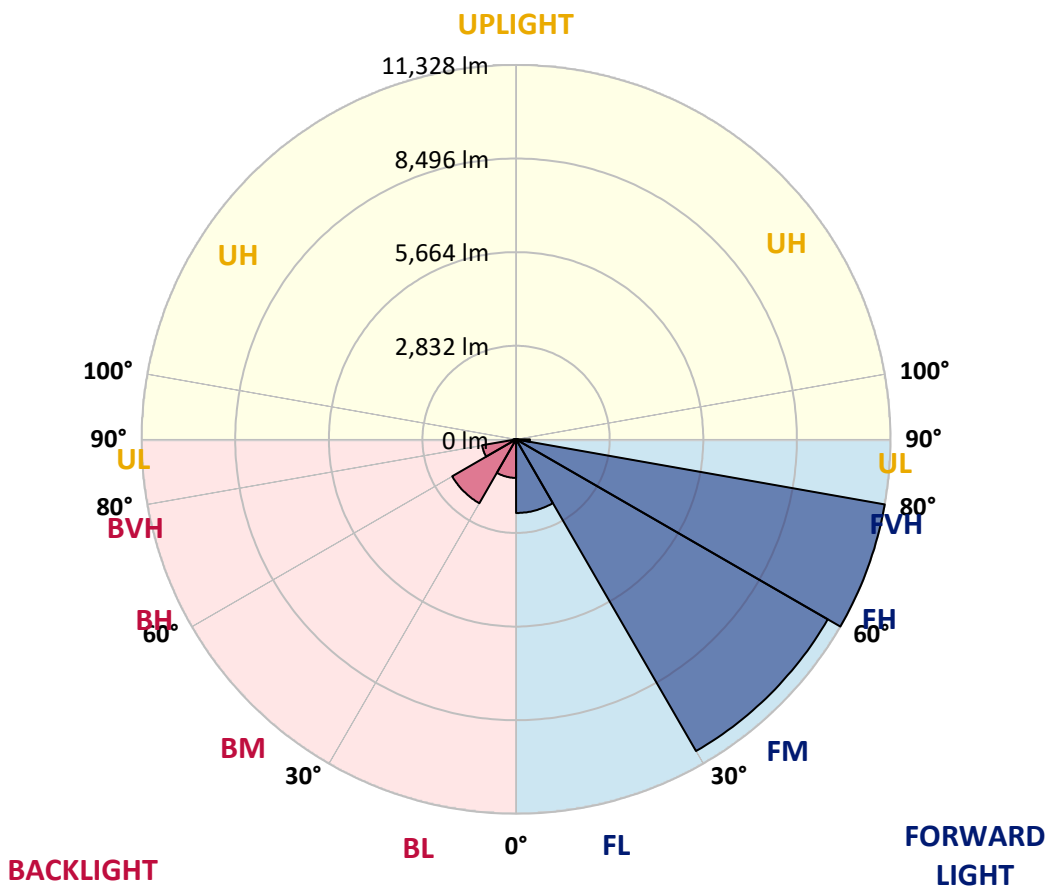
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2228.0	7.6			
FM (30°-60°)	10888.8	37.0			
FH (60°-80°)	11327.8	38.5			G4/12000
FVH (80°-90°)	419.0	1.4			G3/500
BL (0°-30°)	1166.6	4.0	B3/2500		
BM (30°-60°)	2231.4	7.6	B2/2500		
BH (60°-80°)	1044.8	3.6	B3/2500		G3/2500
BVH (80°-90°)	84.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8
2.5°	5021.6	5030.3	5036.9	5045.7	5041.3	5028.1	5039.1	5039.1	5015.0	4988.7	4964.5
5°	5028.1	5039.1	5036.9	5034.7	5017.2	4995.2	4995.2	4982.1	4940.4	4898.7	4859.2
7.5°	5015.0	5012.8	5010.6	5004.0	4984.3	4960.1	4955.7	4929.4	4874.6	4817.5	4760.5
10°	4955.7	4953.5	4960.1	4975.5	4971.1	4949.2	4949.2	4925.0	4861.4	4791.2	4716.6
12.5°	4907.5	4907.5	4933.8	4975.5	4990.8	4982.1	4984.3	4966.7	4894.3	4811.0	4723.2
15°	4914.1	4916.3	4973.3	5041.3	5069.8	5063.2	5065.4	5045.7	4964.5	4881.2	4762.7
17.5°	4957.9	4968.9	5067.6	5162.0	5199.3	5190.5	5175.1	5142.2	5050.1	4955.7	4811.0
20°	5050.1	5067.6	5194.9	5313.3	5357.2	5337.5	5311.1	5245.3	5144.4	5041.3	4863.6
22.5°	5232.2	5243.1	5383.5	5499.8	5534.9	5510.8	5458.1	5363.8	5247.5	5140.0	4927.2
25°	5488.8	5502.0	5635.8	5743.3	5734.5	5706.0	5633.6	5517.4	5379.1	5265.1	5019.4
27.5°	5793.8	5815.7	5947.3	6032.9	5975.9	5934.2	5853.0	5712.6	5556.8	5453.7	5159.8
30°	6127.2	6136.0	6247.9	6333.4	6245.7	6188.6	6089.9	5938.6	5798.2	5721.4	5370.4
32.5°	6449.7	6458.5	6555.0	6603.3	6511.1	6469.4	6383.9	6223.7	6125.0	6083.3	5684.1
35°	6789.7	6787.5	6866.5	6908.2	6813.9	6796.3	6708.6	6585.7	6568.2	6623.0	6142.6
37.5°	7129.8	7110.0	7151.7	7206.6	7153.9	7171.5	7114.4	7072.7	7140.7	7283.3	6752.4
40°	7401.8	7401.8	7445.7	7513.7	7531.2	7608.0	7575.1	7630.0	7849.3	8189.4	7507.1
42.5°	7643.1	7645.3	7737.5	7842.8	7970.0	8088.5	8114.8	8257.4	8711.5	9244.6	8454.8
45°	7895.4	7897.6	8022.6	8176.2	8446.0	8672.0	8724.7	9044.9	9694.3	10343.7	9483.7
47.5°	8187.2	8163.0	8336.4	8593.0	8976.9	9301.6	9437.6	9891.7	10712.2	11510.8	10453.4
50°	8516.2	8465.8	8658.8	9102.0	9575.8	10021.2	10249.3	10769.3	11804.7	12587.9	11366.0
52.5°	8887.0	8858.5	9060.3	9600.0	10323.9	10837.3	11146.6	11828.8	12866.5	13660.7	12089.9
55°	9347.7	9279.7	9571.5	10258.1	11201.4	11855.2	12221.5	12877.5	14027.0	14634.7	12642.7
57.5°	9852.3	9777.7	10168.2	11080.8	12342.2	13059.6	13518.1	14057.7	15119.5	15380.6	12967.4
60°	10396.3	10372.2	10835.1	12046.0	13702.3	14536.0	14867.2	15356.4	16069.4	15812.7	12886.2
62.5°	10894.3	10885.5	11559.0	13092.5	15143.6	16060.6	16323.9	16453.3	16753.9	15784.2	12241.3
65°	11418.6	11493.2	12403.6	14305.6	16795.6	17695.0	17804.7	17475.6	16984.2	15036.2	10920.6
67.5°	11484.4	11629.2	12934.5	15442.0	18361.9	19210.9	19123.2	17863.9	16304.2	12954.3	8560.1
70°	10271.3	10523.6	12087.7	15615.3	19465.4	20090.6	19456.6	17028.1	13836.2	9385.0	5383.5
72.5°	8582.1	8799.2	10181.3	13316.2	18041.6	18838.0	17980.2	14413.1	9777.7	5383.5	2742.2
75°	6680.1	6932.3	8206.9	10585.0	13507.1	13825.2	13395.2	10051.9	5374.8	2220.1	1246.1
77.5°	4076.0	4258.1	5249.7	7171.5	9450.8	8974.7	7605.8	5635.8	2358.3	1064.0	770.0
80°	1803.3	1915.2	2586.5	3852.3	5460.3	5162.0	4069.5	2406.6	1289.9	675.7	537.5
82.5°	967.5	1039.9	1274.6	1524.7	2397.8	2507.5	2033.6	1386.5	693.2	386.1	307.1
85°	425.6	467.3	579.2	552.8	787.6	774.4	781.0	952.1	331.3	177.7	199.6
87.5°	0.0	0.0	0.0	0.0	2.2	2.2	24.1	127.2	32.9	52.7	46.1
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°	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8	4990.8
2.5°	4938.2	4898.7	4887.7	4874.6	4850.4	4808.8	4778.0	4742.9	4727.6	4710.0	4712.2
5°	4815.3	4767.1	4721.0	4661.8	4587.2	4503.8	4446.8	4381.0	4345.9	4313.0	4321.7
7.5°	4710.0	4635.5	4541.1	4416.1	4282.3	4133.1	4012.4	3918.1	3854.5	3810.6	3832.5
10°	4644.2	4556.5	4391.9	4187.9	3962.0	3733.8	3560.5	3398.2	3297.2	3218.3	3213.9
12.5°	4631.1	4517.0	4277.9	3981.7	3654.8	3349.9	3095.4	2876.0	2742.2	2643.5	2680.8
15°	4644.2	4499.4	4179.1	3790.8	3378.4	2966.0	2650.1	2397.8	2237.7	2147.7	2141.1
17.5°	4659.6	4481.9	4067.3	3584.6	3088.8	2617.2	2250.8	1983.2	1818.6	1728.7	1730.9
20°	4672.7	4455.6	3935.6	3358.7	2794.9	2292.5	1913.0	1658.5	1511.5	1445.7	1456.7
22.5°	4694.7	4429.2	3795.2	3117.4	2494.3	1978.8	1645.3	1439.1	1351.4	1307.5	1309.7
25°	4736.4	4413.9	3650.4	2854.1	2198.2	1728.7	1461.1	1322.8	1268.0	1241.7	1239.5
27.5°	4821.9	4427.0	3499.1	2599.6	1930.5	1537.8	1342.6	1252.6	1215.4	1197.8	1195.6
30°	4964.5	4479.7	3367.4	2340.8	1700.2	1388.7	1261.4	1206.6	1184.6	1169.3	1167.1
32.5°	5181.7	4578.4	3224.9	2099.4	1513.7	1279.0	1197.8	1169.3	1153.9	1145.2	1145.2
35°	5510.8	4758.3	3084.5	1888.8	1368.9	1193.4	1147.3	1136.4	1123.2	1118.8	1123.2
37.5°	5984.6	5045.7	2957.2	1704.6	1265.8	1127.6	1092.5	1096.9	1085.9	1092.5	1099.1
40°	6585.7	5429.6	2849.7	1553.2	1189.0	1079.3	1044.2	1059.6	1053.0	1059.6	1070.6
42.5°	7347.0	5905.6	2768.5	1434.7	1134.2	1039.9	1006.9	1022.3	1017.9	1026.7	1037.7
45°	8196.0	6533.1	2731.3	1351.4	1094.7	1011.3	976.2	987.2	982.8	989.4	1000.4
47.5°	9009.8	7103.5	2764.2	1303.1	1061.8	987.2	949.9	954.3	952.1	949.9	956.5
50°	9711.9	7557.6	2858.5	1287.7	1039.9	963.1	928.0	930.2	923.6	910.4	914.8
52.5°	10284.4	7921.7	2915.5	1287.7	1028.9	936.7	903.8	906.0	892.9	875.3	877.5
55°	10661.8	8068.7	2869.5	1285.6	1024.5	914.8	879.7	881.9	868.7	846.8	849.0
57.5°	10769.3	7926.1	2676.4	1261.4	1020.1	897.3	855.6	860.0	851.2	827.1	827.1
60°	10468.7	7404.0	2323.2	1206.6	1009.1	886.3	838.0	844.6	840.2	816.1	816.1
62.5°	9681.1	6476.0	1902.0	1123.2	978.4	873.1	822.7	835.8	846.8	833.6	831.4
65°	8206.9	5188.3	1546.6	1031.1	938.9	851.2	800.7	833.6	857.8	875.3	875.3
67.5°	6157.9	3714.1	1261.4	934.5	879.7	807.3	772.2	802.9	820.5	831.4	838.0
70°	3753.6	2185.0	993.8	822.7	794.1	741.5	715.2	684.5	660.3	655.9	658.1
72.5°	1836.2	1250.5	807.3	699.8	677.9	629.6	570.4	557.2	546.3	539.7	537.5
75°	1011.3	870.9	666.9	581.4	541.9	482.6	469.5	447.5	443.1	434.4	436.6
77.5°	715.2	686.7	550.6	471.7	412.4	381.7	388.3	372.9	372.9	366.4	364.2
80°	537.5	539.7	423.4	344.4	304.9	294.0	300.5	300.5	296.2	294.0	291.8
82.5°	340.0	383.9	285.2	221.6	217.2	219.4	217.2	215.0	219.4	212.8	210.6
85°	234.7	276.4	173.3	131.6	131.6	129.4	133.8	131.6	136.0	129.4	129.4
87.5°	52.7	122.9	63.6	39.5	41.7	39.5	41.7	43.9	48.3	50.5	50.5
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)