

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: P637812

Luminaire Tested: GWS-SA4D-750-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-750-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

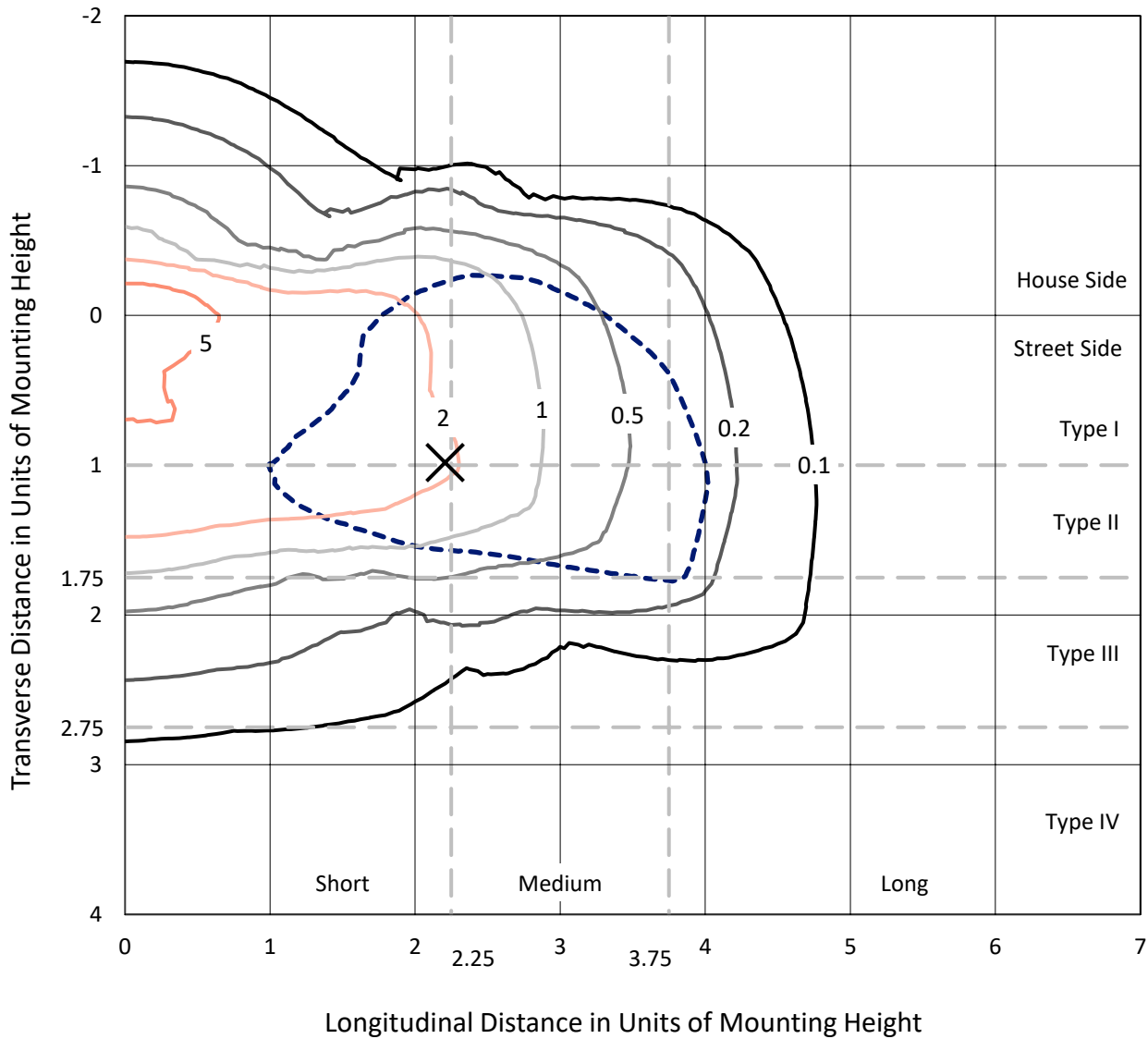
Lumens per Lamp: N/A  
Luminaire Lumens: 24616.5 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

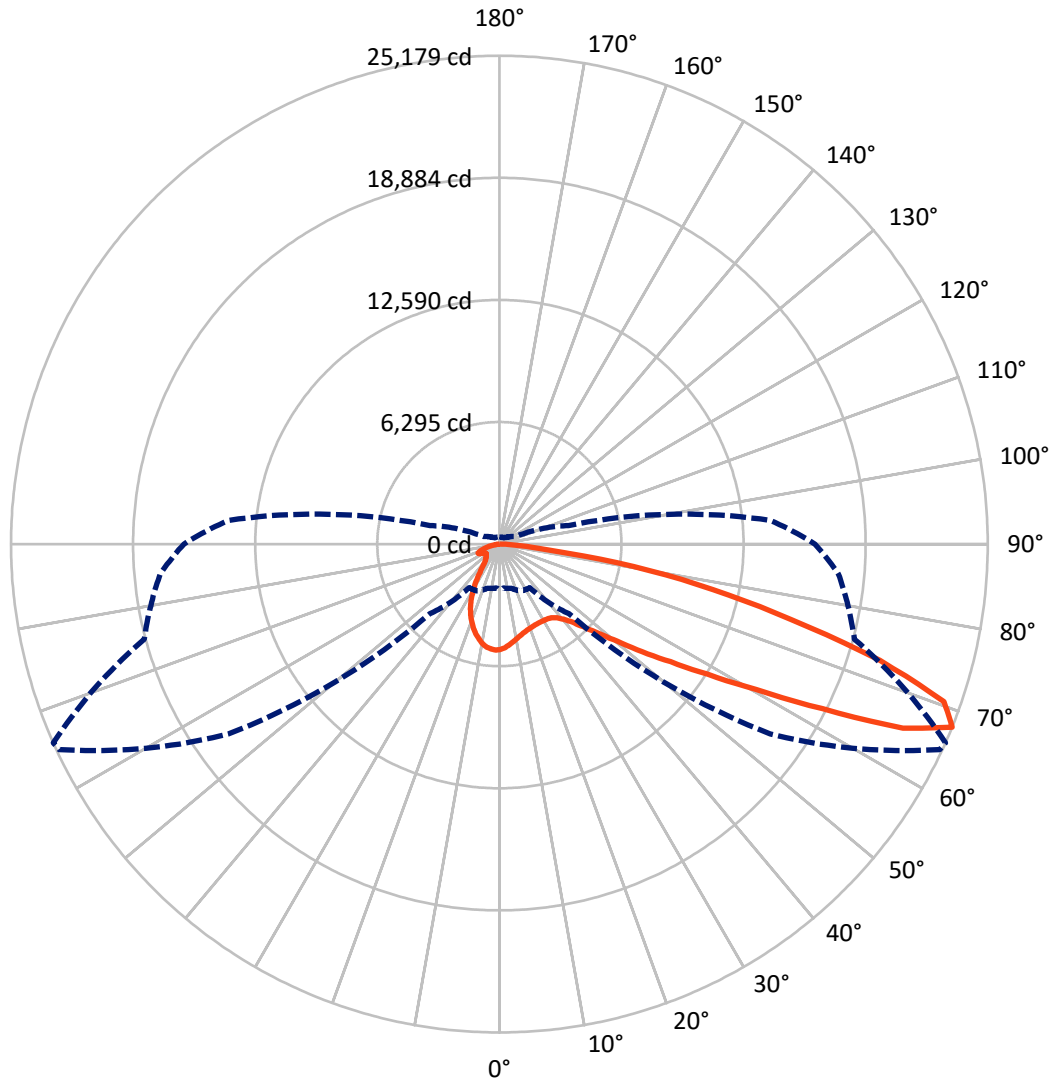
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4995.3	0.0	4995.3
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	19621.2	0.0	19621.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	24616.5	0.0	24616.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.4	1.9
10°-20°	1173.2	4.8
20°-30°	1612.7	6.6
30°-40°	2204.8	9.0
40°-50°	3340.8	13.6
50°-60°	5193.4	21.1
60°-70°	6322.8	25.7
70°-80°	3851.5	15.6
80°-90°	439.9	1.8
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°	24616.5	100.0
0°-180°	24616.5	100.0

**Coefficient of Utilization**



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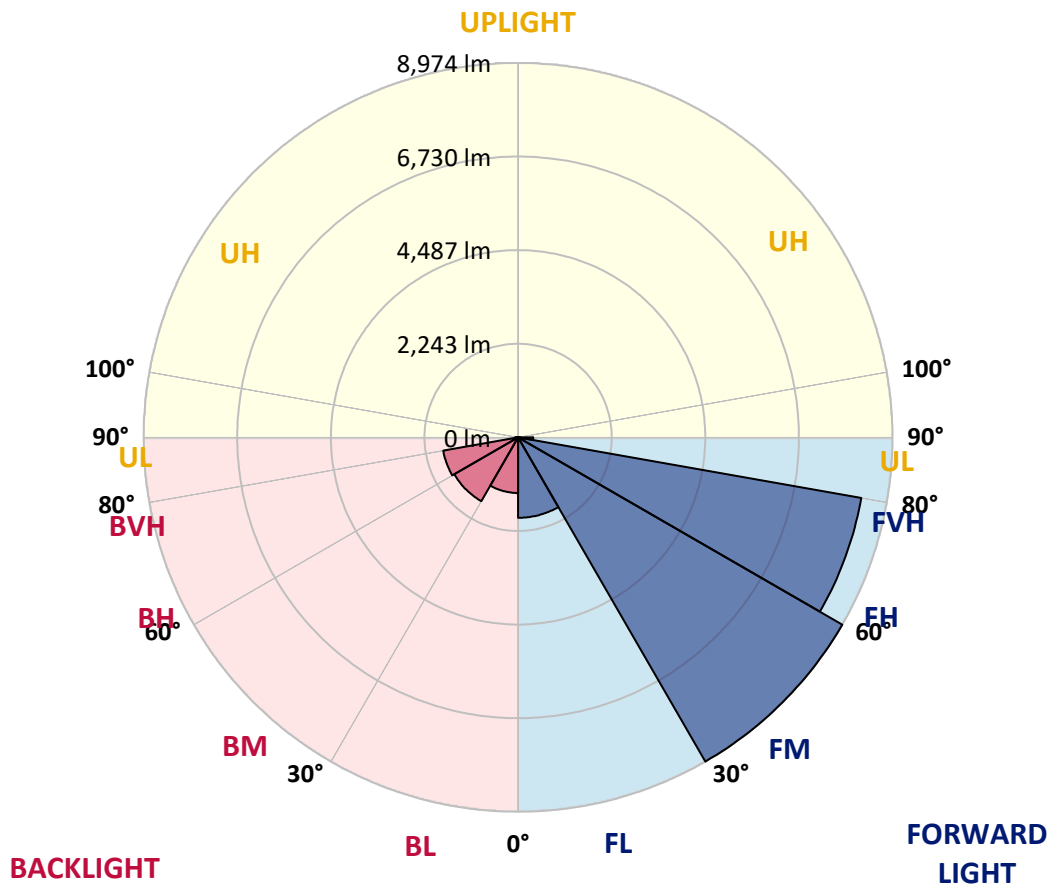
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.8	7.8			
FM (30°-60°)	8973.7	36.5			
FH (60°-80°)	8353.0	33.9			G4/12000
FVH (80°-90°)	365.8	1.5			G3/500
BL (0°-30°)	1334.5	5.4	B3/2500		
BM (30°-60°)	1765.3	7.2	B2/2500		
BH (60°-80°)	1821.4	7.4	B3/2500		G3/2500
BVH (80°-90°)	74.2	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5
2.5°	5094.7	5112.7	5101.9	5170.2	5173.8	5260.0	5308.5	5349.8	5353.3	5407.2	5443.1
5°	4746.4	4757.1	4757.1	4821.8	4864.9	4979.8	5091.2	5209.7	5218.7	5348.0	5446.7
7.5°	4464.4	4475.2	4468.0	4554.2	4609.9	4737.4	4879.3	5060.6	5078.6	5286.9	5459.3
10°	4243.5	4239.9	4257.9	4336.9	4408.7	4561.4	4719.4	4925.9	4952.9	5216.9	5473.7
12.5°	4092.7	4096.3	4107.0	4189.7	4266.9	4417.7	4581.1	4805.6	4834.4	5136.1	5466.5
15°	4020.8	4013.7	4022.6	4098.1	4171.7	4304.6	4473.4	4705.1	4733.8	5064.2	5468.3
17.5°	4004.7	3999.3	3997.5	4051.4	4107.0	4231.0	4392.6	4627.8	4658.4	5017.5	5479.1
20°	4055.0	4047.8	4028.0	4051.4	4074.7	4178.9	4335.1	4572.2	4606.3	4987.0	5500.6
22.5°	4193.2	4180.7	4150.1	4121.4	4090.9	4153.7	4299.2	4530.9	4565.0	4967.2	5522.2
25°	4403.4	4392.6	4360.3	4295.6	4184.3	4173.5	4292.0	4512.9	4547.0	4952.9	5531.1
27.5°	4692.5	4676.3	4644.0	4550.6	4369.2	4247.1	4319.0	4511.1	4543.4	4936.7	5522.2
30°	5035.5	5024.7	5006.8	4893.6	4651.2	4403.4	4380.0	4525.5	4550.6	4927.7	5504.2
32.5°	5383.9	5373.1	5387.5	5333.6	5035.5	4662.0	4512.9	4565.0	4582.9	4925.9	5488.0
35°	5691.0	5703.5	5807.7	5816.7	5524.0	5012.1	4723.0	4656.6	4660.2	4961.9	5495.2
37.5°	6012.4	6060.9	6197.4	6314.1	6069.9	5475.5	5035.5	4829.0	4825.4	5053.4	5540.1
40°	6438.0	6459.6	6633.8	6852.9	6700.2	6111.2	5479.1	5110.9	5085.8	5240.2	5660.4
42.5°	6852.9	6904.9	7183.3	7434.7	7384.4	6827.7	6037.6	5532.9	5488.0	5570.6	5908.3
45°	7380.8	7431.1	7743.6	8066.8	8158.4	7637.6	6752.3	6132.7	6087.8	6068.1	6362.6
47.5°	7908.8	7960.9	8241.0	8707.9	9029.4	8650.5	7682.5	6924.7	6851.1	6773.8	7048.6
50°	8264.4	8325.4	8593.0	9153.3	9907.6	9914.7	8785.2	7962.7	7869.3	7747.2	8014.8
52.5°	8251.8	8291.3	8546.3	9192.8	10539.7	11367.6	10261.3	9284.4	9209.0	8943.2	9176.7
55°	7603.5	7662.8	7919.6	8727.7	10607.9	12745.0	12430.7	10843.2	10708.5	10232.6	10489.4
57.5°	6301.5	6351.8	6610.4	7607.1	10002.7	13450.7	15185.5	12829.4	12644.4	11636.9	11933.2
60°	4757.1	4696.1	4818.2	5691.0	8555.3	13468.7	17617.0	15523.1	15214.2	13138.2	13386.1
62.5°	3570.1	3509.0	3536.0	3782.0	5800.5	12380.4	19003.4	19208.1	18698.1	14833.5	14785.0
65°	2821.2	2787.1	2864.3	3033.1	3381.5	9428.1	19014.2	23193.1	22871.6	16798.1	16219.9
67.5°	2298.7	2277.1	2356.1	2668.6	2742.2	5066.0	17049.5	25053.5	25179.2	18949.5	17550.6
70°	1851.5	1819.2	1943.1	2354.3	2550.1	3065.5	12213.4	24105.3	24308.3	20231.7	17175.3
72.5°	1278.6	1280.4	1343.3	1907.2	2462.1	2647.0	6908.5	20071.9	20511.9	19069.8	15099.3
75°	862.0	869.2	887.1	1258.9	2268.1	2568.0	3681.4	15196.3	15506.9	15761.9	12481.0
77.5°	520.8	524.4	565.7	761.4	1564.2	2397.4	2494.4	11015.6	11259.8	10390.6	7736.4
80°	301.7	314.3	352.0	510.0	1055.9	1801.2	1930.5	6754.1	7030.6	4618.9	2458.5
82.5°	132.9	141.9	192.2	296.3	616.0	1531.8	1506.7	2668.6	2629.1	1287.6	853.0
85°	23.3	28.7	41.3	93.4	226.3	808.1	1169.1	1178.1	1108.0	488.5	353.8
87.5°	0.0	0.0	0.0	0.0	0.0	5.4	176.0	316.1	314.3	138.3	122.1
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°	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5	5439.5
2.5°	5466.5	5418.0	5461.1	5466.5	5457.5	5450.3	5396.4	5349.8	5344.4	5294.1	5294.1
5°	5486.2	5441.3	5462.9	5421.6	5356.9	5290.5	5175.6	5096.5	5060.6	4996.0	4996.0
7.5°	5513.2	5466.5	5441.3	5339.0	5188.1	5042.7	4857.7	4703.3	4640.4	4548.8	4545.2
10°	5538.3	5479.1	5392.9	5193.5	4952.9	4721.2	4451.8	4232.8	4083.7	3974.2	3974.2
12.5°	5536.5	5459.3	5288.7	4994.2	4662.0	4326.1	3967.0	3636.5	3439.0	3268.4	3257.6
15°	5532.9	5427.0	5155.8	4762.5	4322.5	3857.4	3369.0	2938.0	2645.2	2478.2	2463.9
17.5°	5529.3	5385.7	5006.8	4498.5	3909.5	3275.6	2630.9	2164.0	1919.7	1817.4	1821.0
20°	5529.3	5339.0	4846.9	4195.0	3433.6	2578.8	1930.5	1591.1	1530.0	1535.4	1540.8
22.5°	5513.2	5281.5	4669.1	3864.6	2903.8	1896.4	1424.1	1309.2	1341.5	1391.8	1398.9
25°	5475.5	5186.3	4462.6	3498.3	2273.5	1381.0	1161.9	1140.3	1199.6	1262.5	1280.4
27.5°	5416.2	5076.8	4231.0	3069.1	1673.7	1109.8	1021.8	1020.0	1066.7	1113.4	1129.6
30°	5353.3	4954.7	3986.7	2591.4	1212.2	966.2	932.0	932.0	955.4	984.1	980.5
32.5°	5279.7	4830.8	3724.5	2093.9	987.7	885.3	874.6	869.2	872.8	883.5	883.5
35°	5216.9	4721.2	3455.2	1567.8	885.3	840.4	829.7	817.1	811.7	804.5	808.1
37.5°	5193.5	4635.0	3176.8	1181.7	835.1	808.1	790.2	772.2	759.6	756.0	754.2
40°	5231.2	4599.1	2898.5	973.3	799.1	774.0	754.2	730.9	720.1	720.1	720.1
42.5°	5378.5	4626.0	2614.7	880.0	774.0	745.3	716.5	695.0	691.4	695.0	696.8
45°	5647.9	4730.2	2320.2	833.3	752.4	716.5	682.4	666.3	666.3	669.8	669.8
47.5°	6129.1	5003.2	2029.3	804.5	730.9	693.2	657.3	641.1	639.3	642.9	642.9
50°	6962.4	5495.2	1767.1	784.8	714.7	675.2	639.3	617.8	612.4	610.6	610.6
52.5°	8013.0	6348.2	1600.1	770.4	695.0	655.5	619.6	590.8	580.1	574.7	574.7
55°	9282.6	7485.0	1600.1	759.6	669.8	632.1	590.8	562.1	545.9	538.7	538.7
57.5°	10721.1	8808.5	1876.6	750.7	650.1	605.2	560.3	531.6	513.6	502.8	502.8
60°	12184.7	10207.5	2560.8	738.1	632.1	571.1	526.2	499.2	475.9	463.3	461.5
62.5°	13702.1	11748.3	3462.3	745.3	619.6	538.7	490.3	459.7	440.0	427.4	425.6
65°	15092.1	13215.5	4250.7	800.9	621.4	510.0	449.0	422.0	405.9	389.7	387.9
67.5°	16272.0	14025.4	3697.6	914.1	659.1	475.9	407.7	380.7	366.3	355.6	353.8
70°	15445.9	12789.9	2097.5	984.1	711.1	440.0	361.0	343.0	328.6	321.5	319.7
72.5°	13208.3	10828.8	1402.5	869.2	648.3	393.3	317.9	303.5	292.7	283.7	281.9
75°	10699.5	8587.6	1072.1	712.9	504.6	319.7	273.0	262.2	251.4	242.4	240.6
77.5°	6330.3	4961.9	790.2	563.9	355.6	249.6	226.3	217.3	206.5	199.3	197.5
80°	2020.3	1724.0	501.0	387.9	235.3	192.2	174.2	167.0	156.2	147.3	145.5
82.5°	770.4	666.3	265.8	197.5	156.2	131.1	116.7	109.5	102.4	93.4	91.6
85°	341.2	319.7	147.3	106.0	84.4	64.6	57.5	53.9	44.9	37.7	35.9
87.5°	120.3	120.3	62.9	30.5	18.0	9.0	5.4	1.8	0.0	0.0	0.0
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)