

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: P637205

Luminaire Tested: GWS-SA4C-735-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637205  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

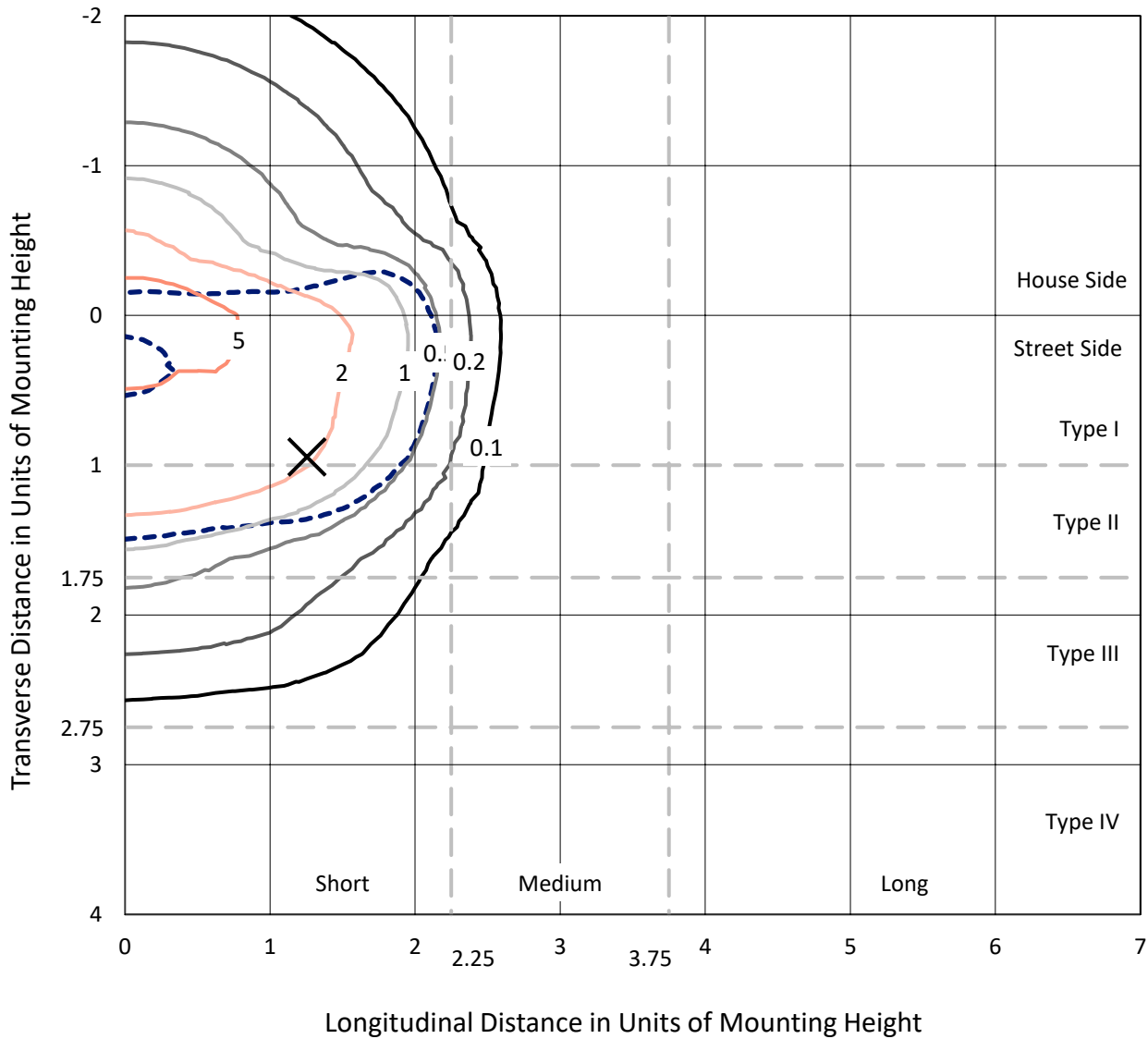
Lumens per Lamp: N/A  
Luminaire Lumens: 16306.6 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

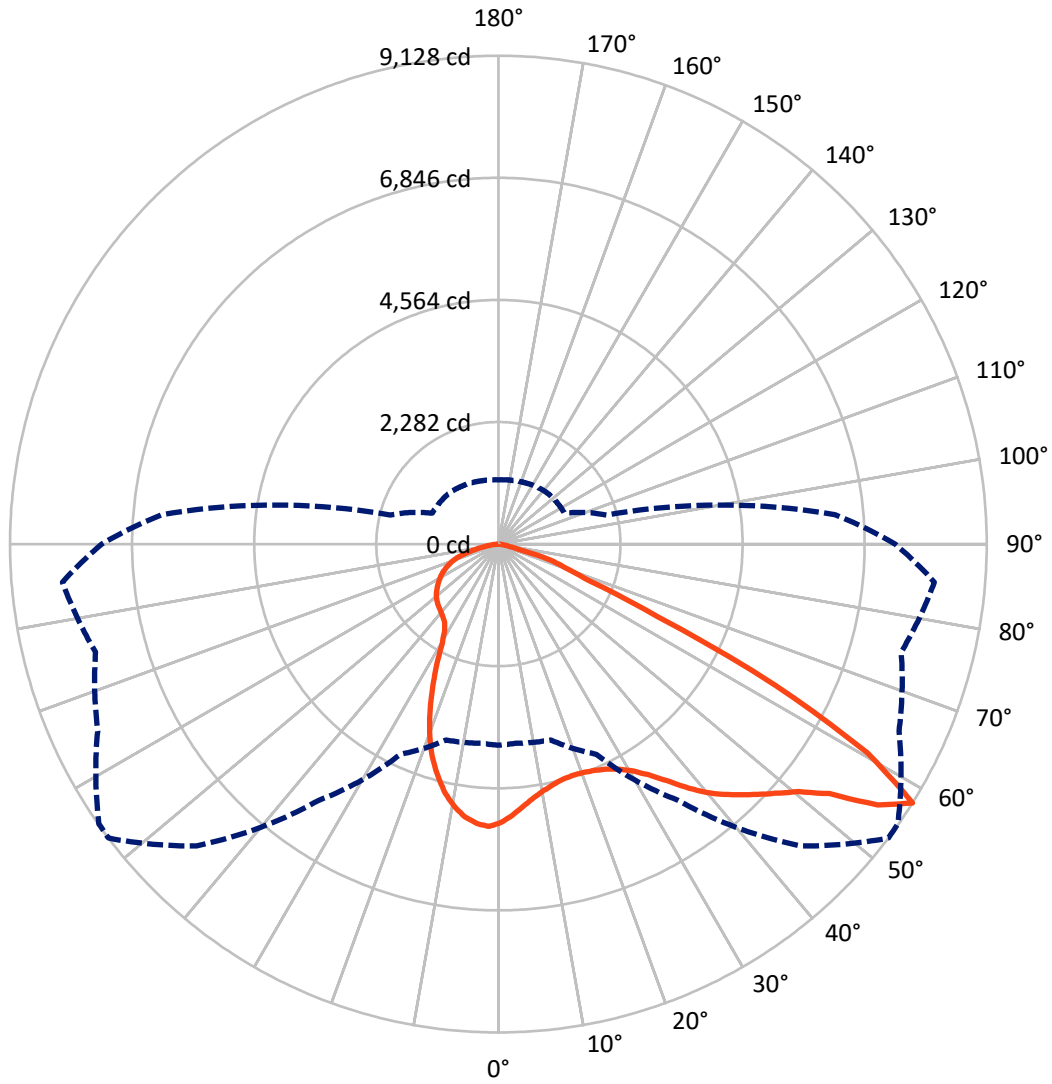
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5098.5	0.0	5098.5
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	11208.1	0.0	11208.1
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	16306.6	0.0	16306.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.9	2.9
10°-20°	1235.4	7.6
20°-30°	1820.1	11.2
30°-40°	2547.7	15.6
40°-50°	3349.2	20.5
50°-60°	3926.9	24.1
60°-70°	2313.4	14.2
70°-80°	575.5	3.5
80°-90°	67.5	0.4
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°	16306.6	100.0
0°-180°	16306.6	100.0

**Coefficient of Utilization**



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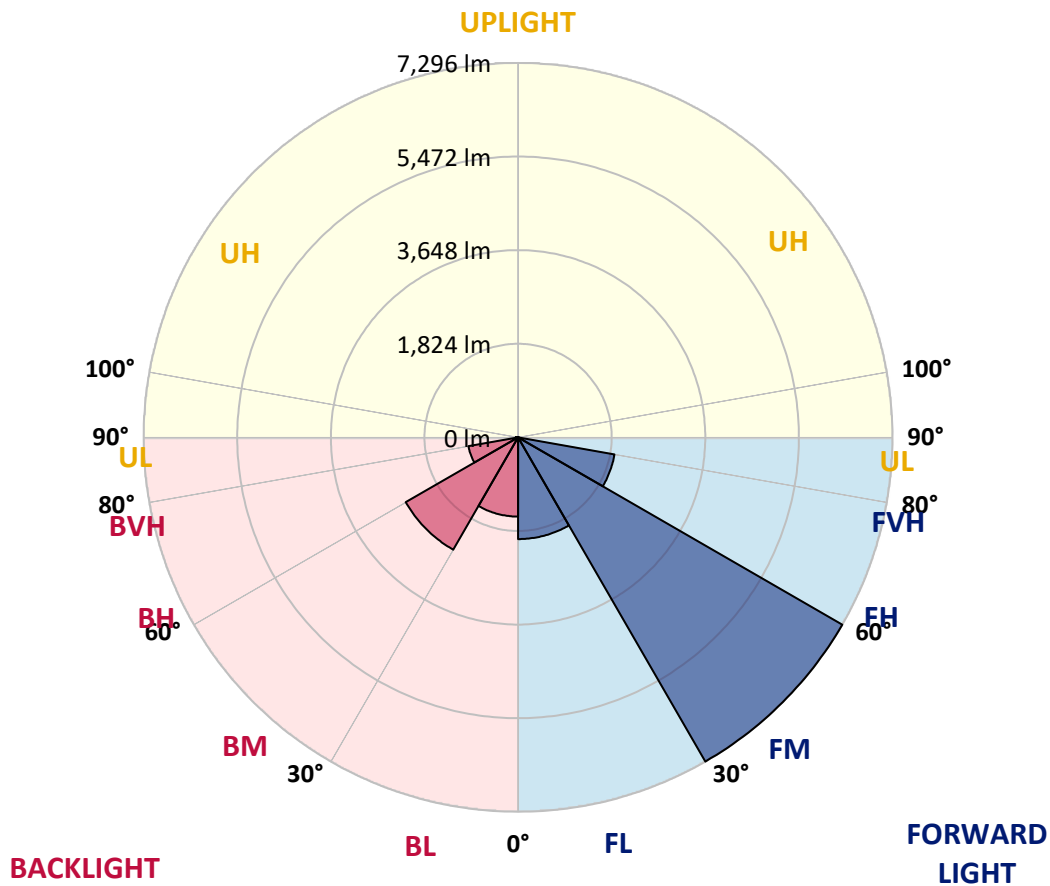
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1982.6	12.2			
FM (30°-60°)	7295.7	44.7			
FH (60°-80°)	1907.3	11.7			G2/5000
FVH (80°-90°)	22.6	0.1			G1/100
BL (0°-30°)	1543.8	9.5	B3/2500		
BM (30°-60°)	2528.1	15.5	B3/5000		
BH (60°-80°)	981.6	6.0	B2/1000		G2/1000
BVH (80°-90°)	44.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1
2.5°	4907.9	4921.7	4924.4	4967.0	4969.7	5031.5	5072.6	5064.4	5106.9	5159.1	5200.3
5°	4673.2	4674.6	4688.3	4739.1	4766.6	4847.6	4916.2	4916.2	4998.5	5105.6	5197.5
7.5°	4479.7	4478.4	4490.7	4547.0	4592.3	4689.7	4783.0	4794.0	4909.3	5065.8	5215.4
10°	4299.9	4309.5	4323.3	4391.9	4449.5	4570.3	4681.5	4699.3	4844.8	5038.3	5240.1
12.5°	4184.7	4186.0	4206.6	4283.5	4357.6	4486.6	4603.3	4625.2	4792.7	5012.2	5257.9
15°	4110.5	4111.9	4133.9	4219.0	4305.4	4435.8	4555.2	4579.9	4762.5	5008.1	5292.2
17.5°	4077.6	4076.2	4096.8	4181.9	4276.6	4412.5	4540.1	4570.3	4776.2	5039.7	5352.6
20°	4077.6	4079.0	4090.0	4166.8	4262.9	4407.0	4555.2	4592.3	4829.7	5111.1	5445.9
22.5°	4135.2	4140.7	4146.2	4198.4	4273.9	4415.2	4595.0	4644.4	4945.0	5230.5	5568.1
25°	4247.8	4249.2	4254.6	4297.2	4331.5	4438.6	4660.9	4735.0	5124.8	5404.8	5721.8
27.5°	4398.8	4418.0	4423.5	4450.9	4450.9	4496.2	4763.8	4870.9	5367.7	5655.9	5918.1
30°	4610.1	4617.0	4626.6	4656.8	4623.8	4604.6	4914.8	5052.0	5649.1	5959.2	6154.1
32.5°	4795.4	4810.5	4862.6	4912.1	4853.0	4792.7	5137.1	5299.1	5919.4	6274.9	6405.3
35°	4953.2	4990.3	5090.5	5200.3	5159.1	5098.7	5432.2	5601.0	6141.8	6501.4	6627.6
37.5°	5144.0	5172.8	5310.1	5488.5	5525.6	5496.7	5791.8	5912.6	6290.0	6559.0	6748.4
40°	5337.5	5381.4	5558.5	5805.5	5946.9	5967.5	6123.9	6204.9	6340.8	6446.5	6725.1
42.5°	5535.2	5610.6	5853.6	6141.8	6392.9	6439.6	6403.9	6438.2	6324.3	6291.4	6616.7
45°	5776.7	5865.9	6140.4	6508.2	6839.0	6911.7	6678.4	6646.9	6321.6	6232.4	6549.4
47.5°	6062.2	6151.4	6413.5	6841.7	7264.5	7318.0	6959.8	6902.1	6417.7	6323.0	6640.0
50°	6314.7	6376.5	6611.2	7090.2	7661.1	7692.7	7270.0	7200.0	6656.5	6574.1	6922.7
52.5°	6058.1	6051.2	6298.2	6888.4	7867.0	8247.2	7747.6	7680.3	7117.6	6991.3	7360.5
55°	5139.9	5061.7	5282.6	5863.2	7291.9	8739.9	8604.0	8469.5	7732.5	7411.3	7770.9
57.5°	3757.8	3735.9	3789.4	4334.2	5841.2	7976.8	9128.3	9115.9	8263.6	7795.6	8179.9
60°	2938.5	2905.5	2762.8	2777.9	3981.5	6231.0	7921.9	8285.6	8593.0	8026.2	8465.4
62.5°	2609.1	2584.4	2510.2	2305.7	2371.6	4177.8	5806.9	6140.4	7508.8	7088.8	7271.3
65°	2160.3	2153.4	2215.2	2206.9	1987.3	2307.1	3277.5	3613.7	4721.3	4780.3	4721.3
67.5°	1570.1	1557.7	1714.2	2023.0	1913.2	1741.7	1826.8	1943.4	2421.0	2174.0	1957.1
70°	1021.1	1003.3	1093.9	1461.7	1712.8	1517.9	1316.2	1297.0	1331.3	827.6	894.8
72.5°	684.9	664.3	662.9	804.3	1034.8	1022.5	1019.7	1010.1	901.7	653.3	724.7
75°	381.5	365.1	361.0	347.2	370.6	377.4	402.1	415.9	450.2	495.5	549.0
77.5°	64.5	63.1	79.6	101.6	140.0	179.8	222.3	234.7	289.6	343.1	377.4
80°	35.7	37.1	48.0	59.0	78.2	107.1	137.2	145.5	178.4	207.2	234.7
82.5°	19.2	19.2	24.7	31.6	42.5	56.3	74.1	81.0	102.9	120.8	140.0
85°	6.9	6.9	9.6	12.4	17.8	23.3	28.8	32.9	45.3	61.8	70.0
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.5	5.5	6.9	12.4	17.8
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°	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1	5207.1
2.5°	5234.6	5197.5	5248.3	5271.6	5279.9	5285.4	5249.7	5225.0	5216.7	5190.7	5175.6
5°	5253.8	5229.1	5277.1	5277.1	5242.8	5207.1	5134.4	5083.6	5047.9	5005.4	4998.5
7.5°	5286.7	5268.9	5295.0	5241.4	5155.0	5058.9	4932.6	4833.8	4754.2	4702.1	4703.4
10°	5330.7	5308.7	5288.1	5168.7	5010.9	4833.8	4640.3	4496.2	4364.4	4304.1	4271.1
12.5°	5359.5	5327.9	5241.4	5043.8	4811.9	4574.4	4301.3	4087.2	3896.4	3810.0	3803.1
15°	5395.2	5337.5	5164.6	4881.9	4559.3	4235.4	3884.1	3586.3	3328.2	3193.7	3186.9
17.5°	5441.8	5347.1	5072.6	4696.6	4293.1	3815.5	3373.5	2998.8	2724.3	2620.0	2637.9
20°	5507.7	5358.1	4968.3	4490.7	3962.3	3337.8	2787.5	2443.0	2337.3	2330.4	2316.7
22.5°	5581.8	5365.0	4853.0	4260.1	3561.6	2828.7	2303.0	2156.1	2154.8	2189.1	2197.3
25°	5665.5	5370.5	4722.7	3991.1	3127.9	2320.8	2036.7	1992.8	2027.1	2091.6	2099.9
27.5°	5772.6	5381.4	4564.8	3696.1	2666.7	2005.2	1889.9	1878.9	1920.1	1980.5	1977.7
30°	5930.4	5421.2	4397.4	3357.1	2193.2	1855.6	1800.7	1802.0	1818.5	1847.3	1851.5
32.5°	6091.0	5483.0	4234.1	2975.5	1921.5	1770.5	1745.8	1743.0	1743.0	1755.4	1758.1
35°	6243.4	5553.0	4057.0	2577.5	1789.7	1721.1	1704.6	1696.4	1692.3	1689.5	1685.4
37.5°	6328.4	5587.3	3884.1	2185.0	1719.7	1688.1	1671.7	1660.7	1645.6	1634.6	1631.9
40°	6291.4	5547.5	3683.7	1891.3	1677.2	1656.6	1637.4	1622.3	1601.7	1592.1	1586.6
42.5°	6167.9	5424.0	3465.5	1752.6	1642.8	1622.3	1598.9	1574.2	1560.5	1552.3	1550.9
45°	6037.5	5274.4	3202.0	1671.7	1609.9	1585.2	1557.7	1530.3	1515.2	1511.1	1509.7
47.5°	6033.4	5200.3	2922.0	1607.2	1570.1	1545.4	1511.1	1483.6	1467.2	1461.7	1456.2
50°	6214.5	5275.8	2606.3	1550.9	1528.9	1502.9	1464.4	1434.2	1413.6	1406.8	1405.4
52.5°	6590.6	5559.9	2323.6	1494.6	1474.0	1443.8	1412.3	1382.1	1357.4	1345.0	1343.6
55°	6996.8	5920.8	2147.9	1437.0	1409.5	1383.4	1354.6	1321.7	1294.2	1275.0	1272.3
57.5°	7416.8	6314.7	2094.4	1364.2	1343.6	1325.8	1291.5	1255.8	1224.2	1206.4	1202.3
60°	7762.7	6653.7	2194.6	1287.4	1276.4	1253.1	1221.5	1187.2	1165.2	1151.5	1148.8
62.5°	6498.6	5417.1	1771.9	1203.7	1203.7	1178.9	1143.3	1118.6	1103.5	1093.9	1091.1
65°	4124.3	3354.3	1209.1	1119.9	1118.6	1085.6	1055.4	1039.0	1032.1	1017.0	1014.3
67.5°	1796.6	1533.0	1033.5	1034.8	1029.3	993.7	963.5	951.1	937.4	920.9	919.6
70°	931.9	949.7	925.0	940.1	930.5	888.0	859.2	839.9	811.1	794.7	796.0
72.5°	752.1	771.3	798.8	822.1	801.5	767.2	721.9	698.6	661.5	643.7	645.1
75°	573.7	594.3	620.4	645.1	628.6	586.0	557.2	533.9	491.3	470.8	474.9
77.5°	395.3	406.3	437.8	436.4	431.0	418.6	376.1	348.6	304.7	280.0	282.7
80°	245.7	252.5	267.6	274.5	271.7	255.3	221.0	200.4	174.3	159.2	160.6
82.5°	148.2	152.3	166.1	167.4	166.1	153.7	127.6	112.5	96.1	87.8	87.8
85°	75.5	78.2	86.5	86.5	78.2	65.9	59.0	52.2	42.5	38.4	38.4
87.5°	20.6	20.6	26.1	22.0	17.8	16.5	8.2	6.9	2.7	1.4	1.4
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)