

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: P642924

Luminaire Tested: GWS-SA6D-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642924  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-830-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

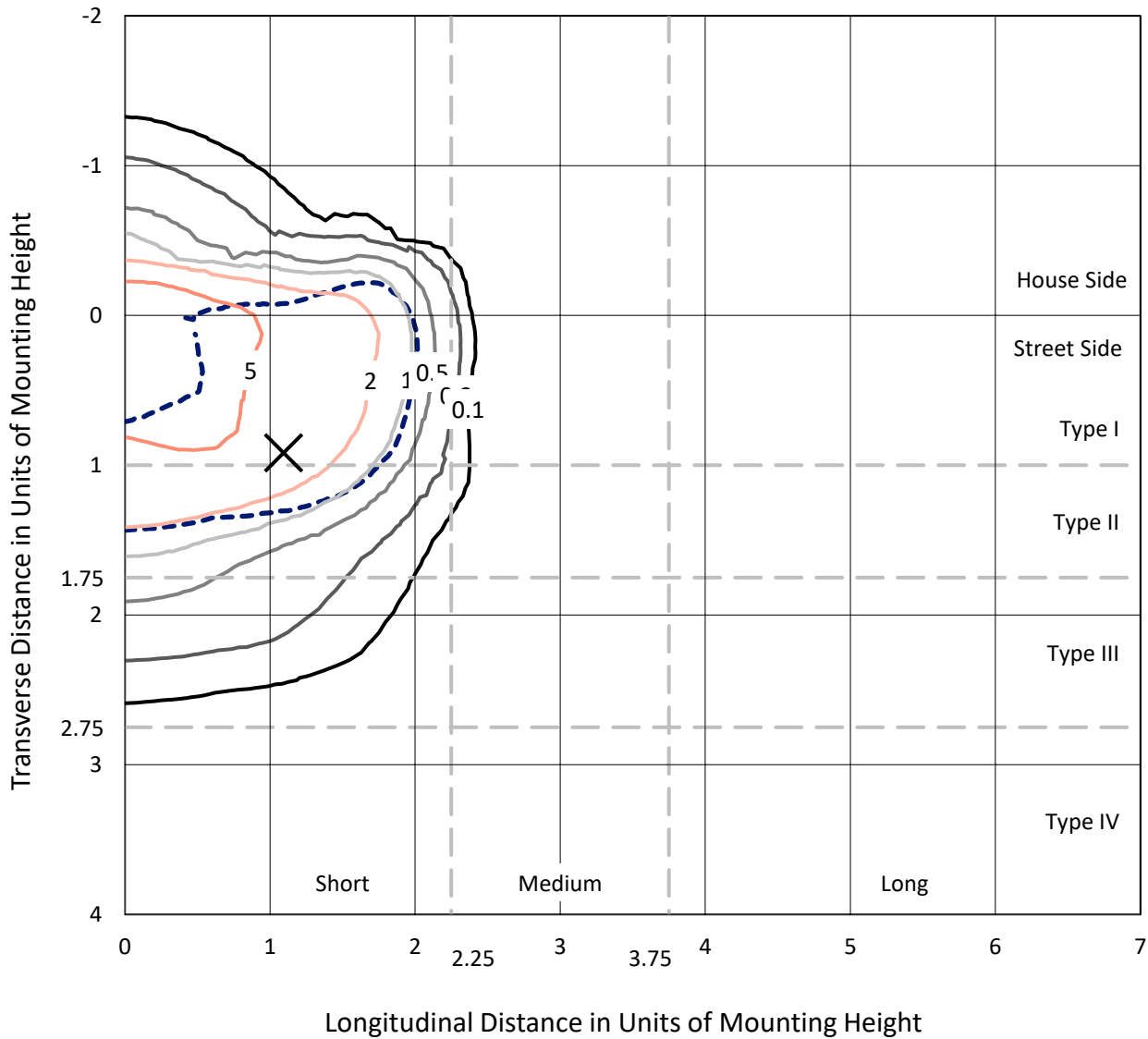
Lumens per Lamp: N/A  
Luminaire Lumens: 16709.2 lumens  
Efficiency: N/A  
Efficacy: 68.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

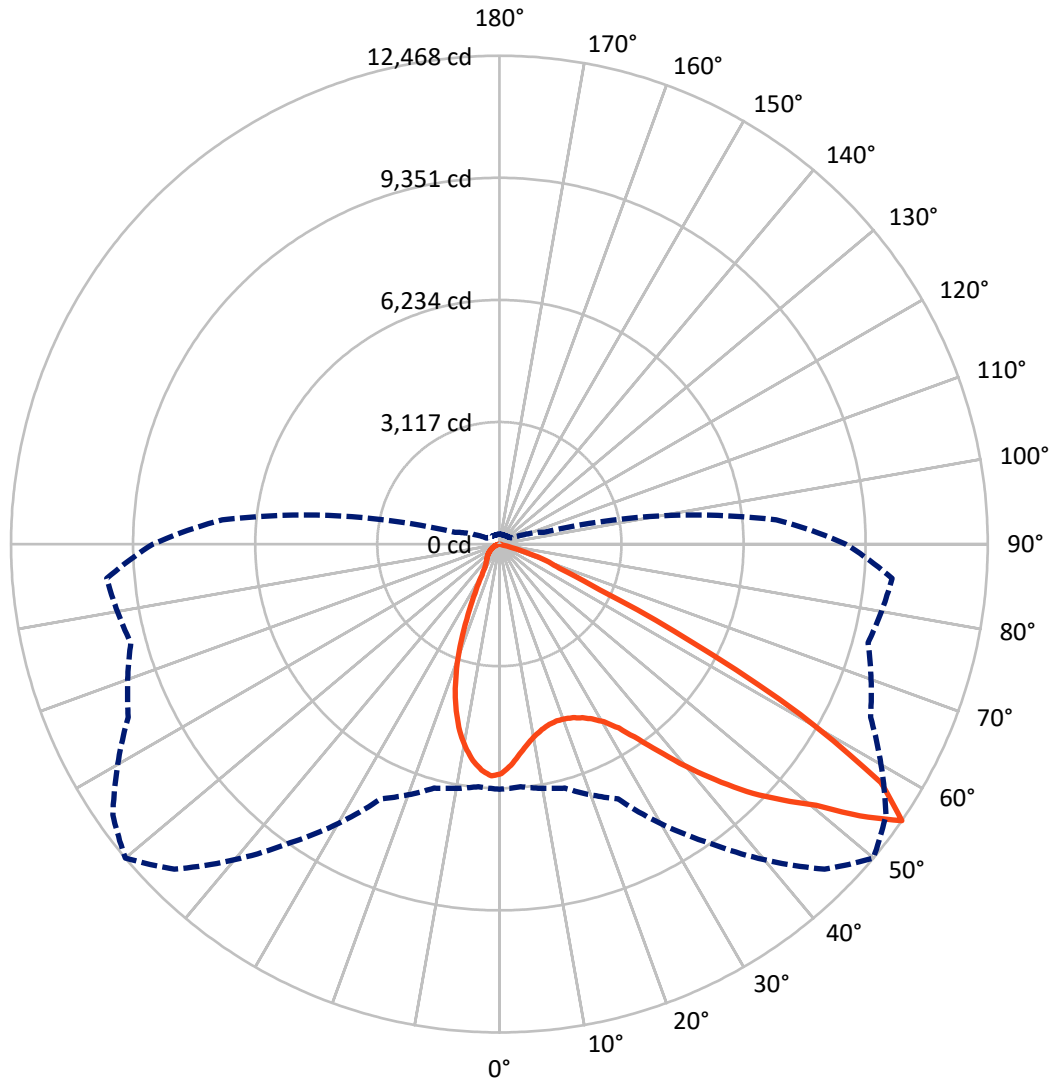
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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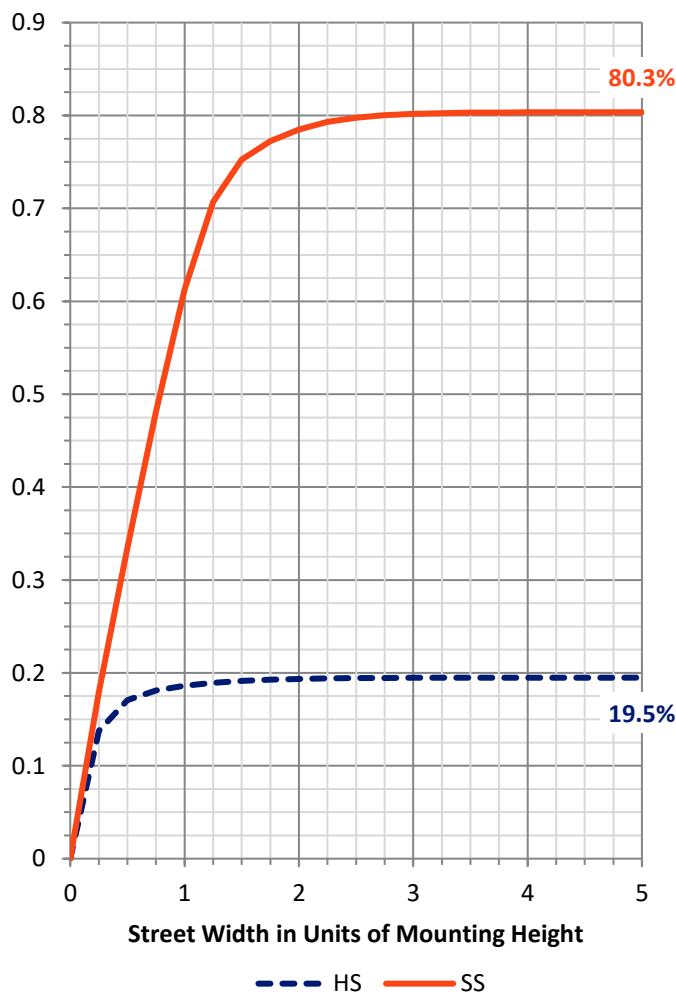
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3292.5	0.0	3292.5
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	13416.7	0.0	13416.7
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	16709.2	0.0	16709.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	514.8	3.1
10°-20°	1267.0	7.6
20°-30°	1787.1	10.7
30°-40°	2644.5	15.8
40°-50°	3815.2	22.8
50°-60°	4500.3	26.9
60°-70°	2007.5	12.0
70°-80°	172.6	1.0
80°-90°	0.1	0.0
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°	16709.2	100.0
0°-180°	16709.2	100.0

**Coefficient of Utilization**



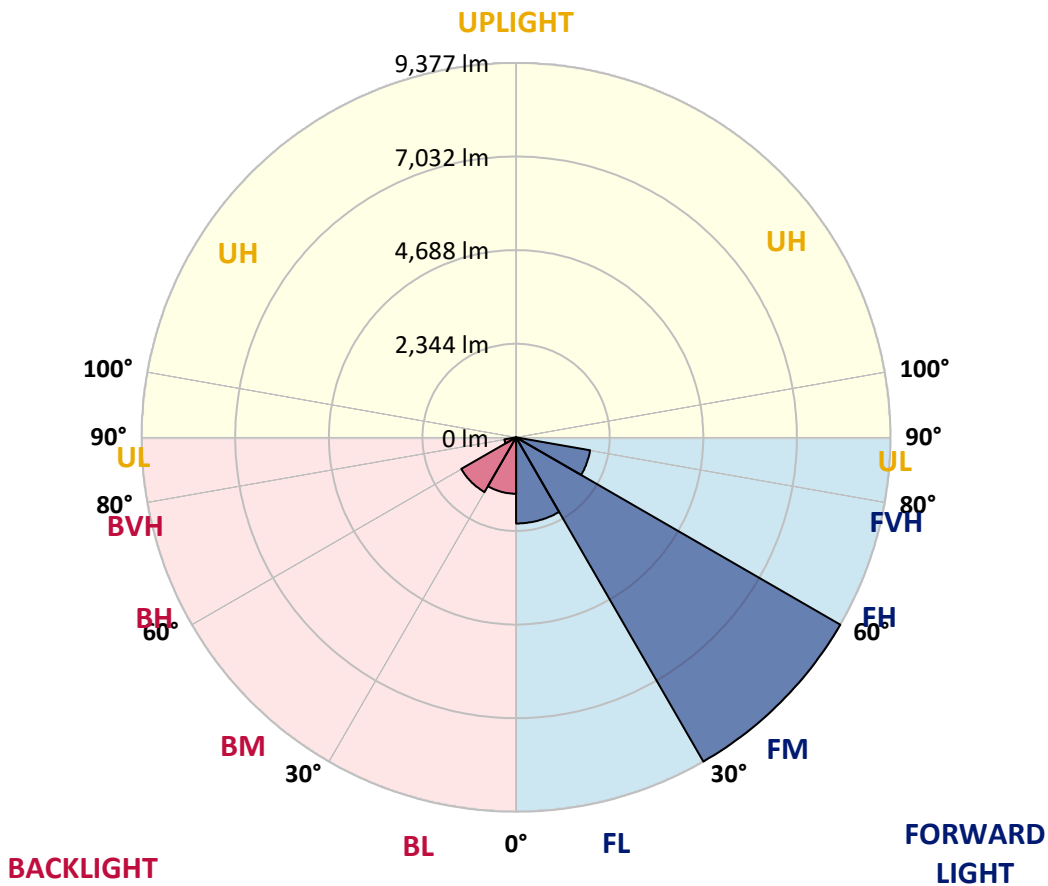
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.2	12.9			
FM (30°-60°)	9376.6	56.1			
FH (60°-80°)	1882.8	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1411.7	8.4	B3/2500		
BM (30°-60°)	1583.5	9.5	B2/2500		
BH (60°-80°)	297.3	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
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°	50°	55°	65°	75°	85°
0°	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5
2.5°	5446.4	5450.5	5452.5	5507.6	5528.0	5609.6	5652.4	5674.9	5734.0	5803.4	5860.5
5°	5081.3	5075.1	5085.3	5154.7	5199.6	5319.9	5385.2	5430.1	5560.6	5723.8	5860.5
7.5°	4763.0	4775.3	4787.5	4863.0	4930.3	5060.9	5154.7	5222.0	5403.6	5646.3	5876.8
10°	4538.7	4538.7	4557.0	4642.7	4722.2	4883.4	4977.2	5062.9	5279.1	5576.9	5895.2
12.5°	4373.4	4375.5	4397.9	4495.8	4587.6	4754.9	4852.8	4936.4	5175.1	5507.6	5899.2
15°	4295.9	4289.8	4308.2	4412.2	4514.2	4671.2	4773.2	4854.8	5101.7	5468.8	5919.6
17.5°	4275.5	4271.4	4285.7	4387.7	4491.7	4644.7	4744.7	4826.3	5091.5	5481.1	5980.8
20°	4334.7	4326.5	4320.4	4408.1	4506.0	4657.0	4761.0	4852.8	5140.4	5548.4	6074.7
22.5°	4475.4	4475.4	4461.1	4504.0	4569.3	4705.9	4814.0	4934.4	5268.9	5683.0	6213.4
25°	4734.5	4714.1	4687.6	4705.9	4697.8	4783.4	4911.9	5079.2	5511.7	5905.4	6382.7
27.5°	5030.3	5048.6	5003.7	5005.8	4934.4	4903.8	5052.7	5305.6	5872.7	6219.5	6633.6
30°	5432.1	5417.8	5419.9	5413.8	5248.5	5103.7	5264.8	5601.4	6327.6	6698.9	6960.0
32.5°	5746.2	5766.6	5834.0	5872.7	5656.5	5423.9	5595.3	6003.3	6845.7	7245.5	7359.8
35°	6078.7	6115.5	6252.1	6378.6	6197.1	5929.8	6113.4	6535.7	7333.2	7786.1	7818.7
37.5°	6429.6	6503.0	6666.2	6888.6	6860.0	6623.4	6790.6	7161.9	7716.7	8112.5	8198.1
40°	6831.4	6902.8	7170.1	7490.3	7557.6	7504.6	7559.7	7775.9	7969.7	8126.7	8361.3
42.5°	7272.0	7370.0	7708.6	8136.9	8389.9	8436.8	8308.3	8285.9	8079.8	7963.6	8326.6
45°	7792.2	7906.4	8289.9	8844.8	9246.6	9309.9	9087.5	8799.9	8149.2	7843.2	8222.6
47.5°	8375.6	8483.7	8865.2	9532.2	10129.9	10154.4	9766.8	9303.7	8355.2	7981.9	8302.2
50°	8571.4	8638.7	8969.2	9752.5	10854.0	11041.7	10480.7	9870.8	8769.3	8389.9	8689.7
52.5°	7898.3	7924.8	8212.4	9003.9	10707.1	11912.7	11523.1	10717.3	9505.7	9012.0	9287.4
55°	6258.2	6215.4	6448.0	7174.1	9305.8	11735.2	12467.5	12047.3	10454.2	9742.3	10064.6
57.5°	4377.5	4326.5	4273.5	4765.1	6943.6	9948.3	11488.4	12233.0	11357.9	10466.4	10903.0
60°	3598.3	3549.3	3292.3	3065.9	4198.0	7143.5	8824.4	10225.7	11284.4	10429.7	10876.5
62.5°	3108.7	3080.2	2976.1	2668.1	2470.3	4077.7	5525.9	6868.2	8659.1	8190.0	8214.5
65°	2441.7	2433.5	2504.9	2537.6	2184.7	2256.1	2819.1	3569.7	4681.4	4414.2	4185.8
67.5°	1668.6	1650.2	1784.9	2194.9	2101.0	1780.8	1650.2	1664.5	2025.6	1238.2	983.2
70°	1060.7	1017.9	1019.9	1360.6	1709.4	1405.5	1272.9	1119.9	1007.7	183.6	208.1
72.5°	679.3	652.8	561.0	614.0	791.5	685.4	691.5	595.6	397.8	97.9	114.2
75°	285.6	263.1	201.9	161.1	159.1	100.0	87.7	81.6	55.1	55.1	59.2
77.5°	2.0	0.0	0.0	2.0	4.1	2.0	2.0	4.1	8.2	12.2	14.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5	5862.5
2.5°	5895.2	5846.2	5901.3	5921.7	5919.6	5921.7	5862.5	5821.7	5819.7	5768.7	5744.2
5°	5917.6	5878.8	5919.6	5893.1	5829.9	5750.3	5644.3	5552.5	5511.7	5452.5	5423.9
7.5°	5960.4	5919.6	5913.5	5807.4	5650.4	5483.1	5295.4	5128.2	5038.4	4930.3	4936.4
10°	5991.0	5944.1	5864.6	5648.3	5387.2	5120.0	4840.6	4591.7	4434.6	4289.8	4265.3
12.5°	6003.3	5933.9	5748.3	5421.9	5054.7	4705.9	4295.9	3941.0	3696.2	3506.5	3480.0
15°	6025.7	5913.5	5599.4	5148.6	4644.7	4151.1	3628.9	3143.4	2819.1	2600.8	2619.2
17.5°	6060.4	5891.1	5432.1	4842.6	4204.1	3506.5	2800.7	2243.8	1946.0	1819.5	1821.6
20°	6109.3	5864.6	5248.5	4506.0	3675.8	2778.3	1958.3	1538.0	1454.4	1450.3	1444.2
22.5°	6174.6	5838.0	5052.7	4136.8	3049.6	1946.0	1303.5	1172.9	1207.6	1274.9	1287.1
25°	6252.1	5805.4	4834.4	3720.7	2366.2	1276.9	977.1	956.7	1040.3	1130.1	1150.5
27.5°	6372.5	5789.1	4585.6	3247.4	1660.4	915.9	799.6	811.9	887.3	962.8	981.2
30°	6576.5	5819.7	4314.3	2717.1	1066.8	730.3	693.5	711.9	752.7	791.5	807.8
32.5°	6853.9	5909.4	4051.1	2137.8	760.9	634.4	626.2	636.4	652.8	675.2	681.3
35°	7178.2	6064.5	3779.8	1529.9	628.3	579.3	571.2	571.2	579.3	583.4	585.4
37.5°	7445.4	6227.6	3524.9	1017.9	563.0	536.5	524.2	518.1	516.1	520.2	522.2
40°	7561.7	6295.0	3247.4	740.5	516.1	497.7	479.4	461.0	461.0	475.3	477.3
42.5°	7480.1	6219.5	2927.2	612.0	483.4	456.9	428.4	412.0	420.2	434.5	438.6
45°	7306.7	6033.9	2574.3	540.6	450.8	416.1	383.5	373.3	381.5	399.8	403.9
47.5°	7278.2	5911.5	2152.0	493.6	416.1	381.5	346.8	336.6	346.8	361.1	365.1
50°	7561.7	6017.5	1682.9	452.8	383.5	344.7	316.2	306.0	312.1	320.3	324.3
52.5°	8079.8	6411.2	1358.5	414.1	344.7	308.0	289.7	277.4	277.4	285.6	287.6
55°	8844.8	7098.7	1172.9	369.2	299.9	279.5	263.1	250.9	250.9	255.0	257.0
57.5°	9726.0	7930.9	1215.7	310.1	263.1	252.9	238.7	228.5	232.5	232.5	232.5
60°	9603.6	7869.7	1301.4	261.1	232.5	228.5	216.2	212.1	222.3	214.2	210.1
62.5°	7074.2	5436.2	681.3	214.2	199.9	195.8	187.7	195.8	210.1	187.7	179.5
65°	3435.1	2631.4	273.3	175.4	169.3	165.2	161.1	173.4	181.5	146.9	138.7
67.5°	807.8	656.8	177.5	148.9	140.7	132.6	136.7	138.7	132.6	100.0	95.9
70°	210.1	206.0	138.7	124.4	112.2	104.0	104.0	102.0	87.7	63.2	59.2
72.5°	114.2	112.2	100.0	93.8	77.5	69.4	71.4	63.2	49.0	36.7	34.7
75°	57.1	61.2	57.1	53.0	42.8	38.8	38.8	34.7	24.5	14.3	14.3
77.5°	12.2	14.3	14.3	12.2	10.2	8.2	8.2	10.2	4.1	0.0	0.0
80°	2.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)