

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: P640339

Luminaire Tested: GWS-SA5D-760-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640339  
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-SA5D-760-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

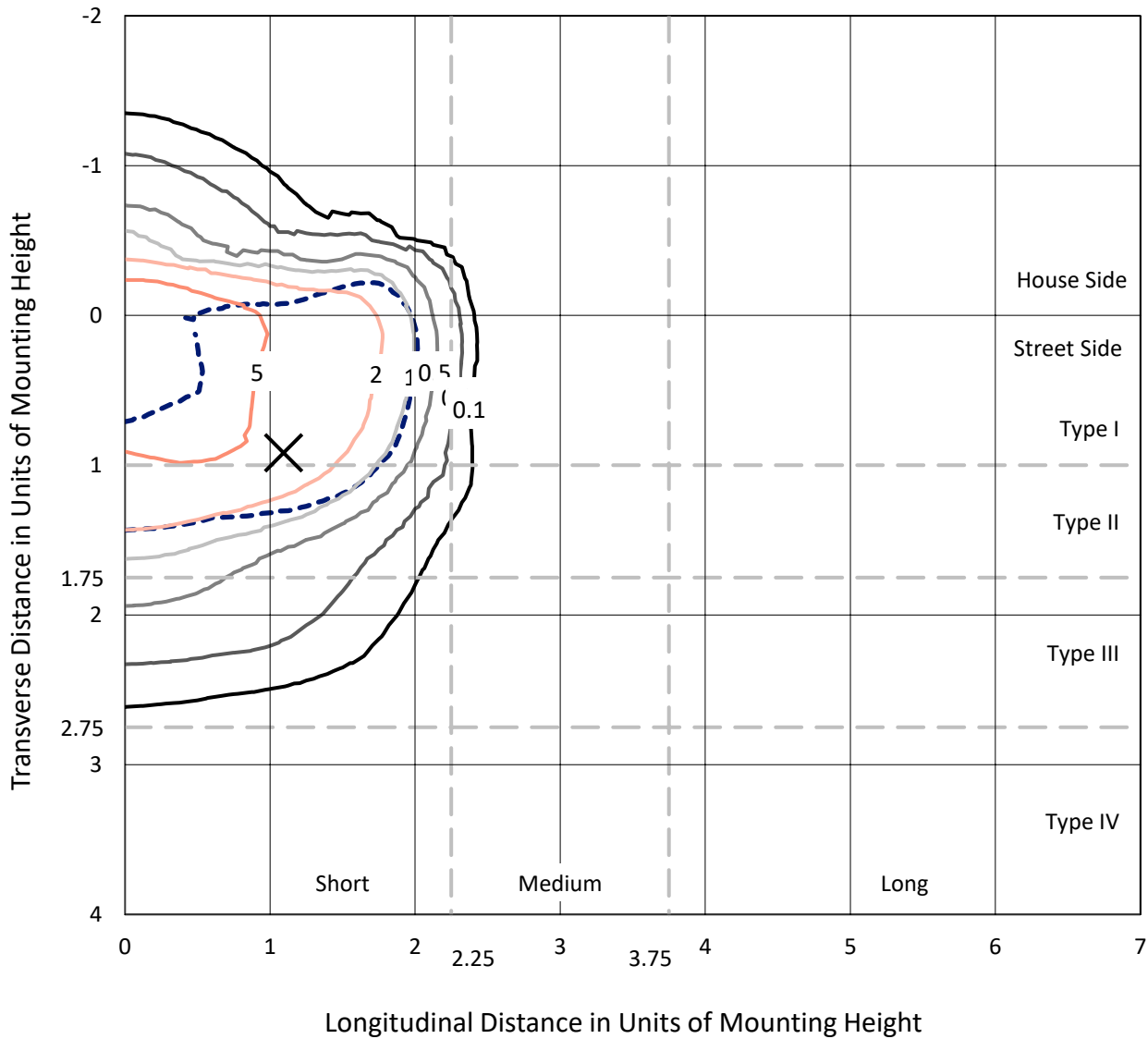
Lumens per Lamp: N/A  
Luminaire Lumens: 17796.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

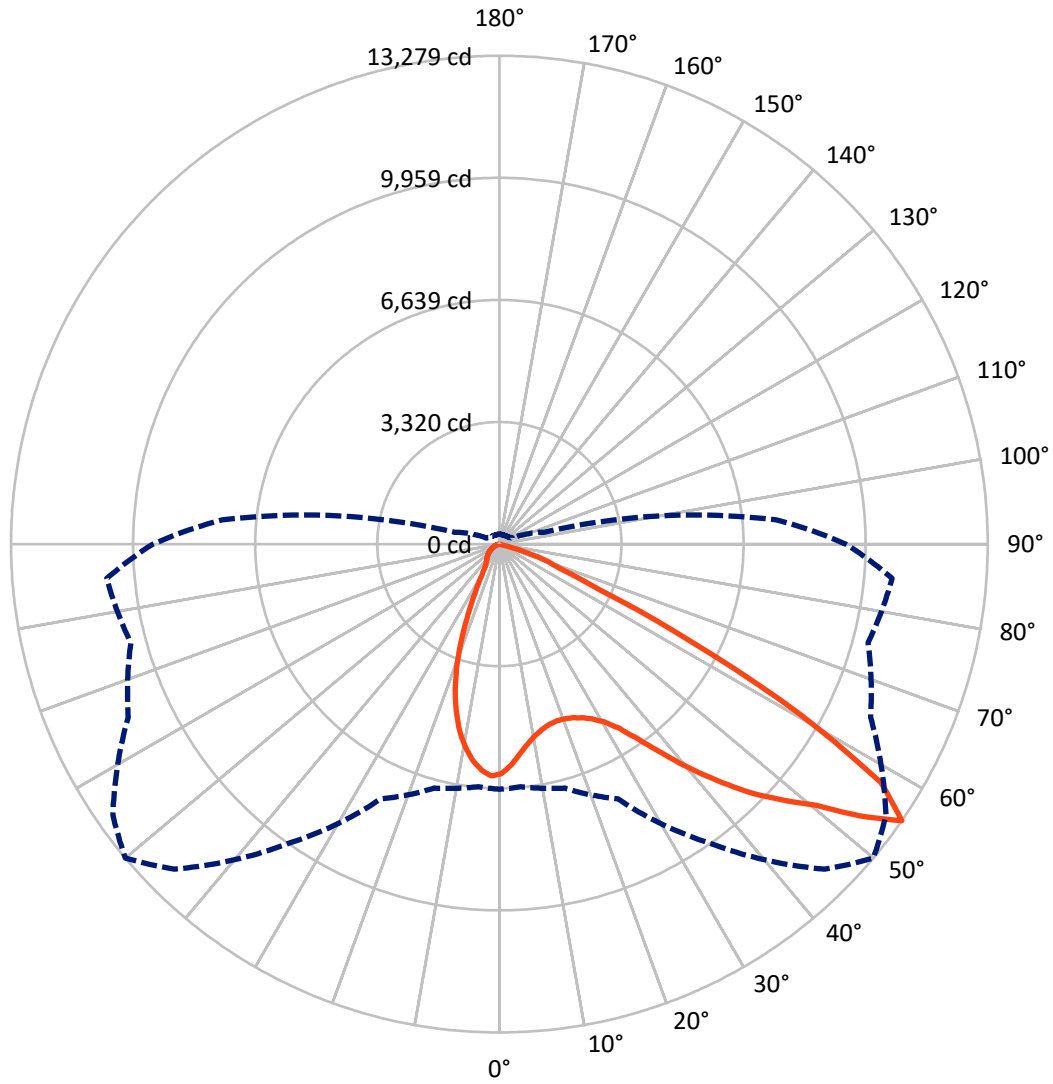
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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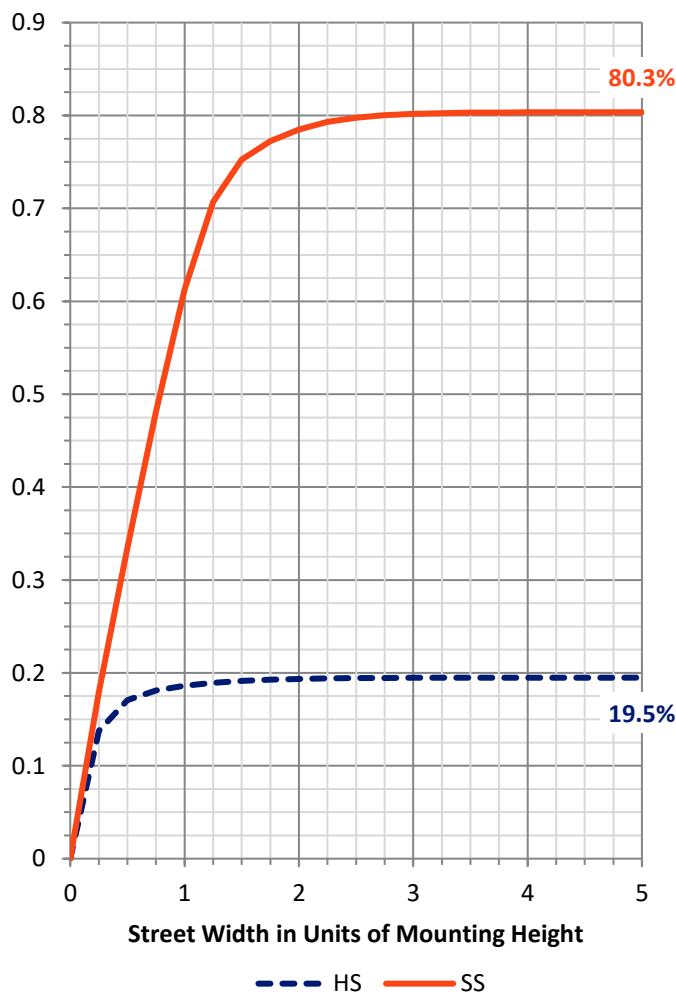
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3506.8	0.0	3506.8
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	14289.8	0.0	14289.8
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	17796.6	0.0	17796.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.4	3.1
10°-20°	1349.4	7.6
20°-30°	1903.4	10.7
30°-40°	2816.6	15.8
40°-50°	4063.5	22.8
50°-60°	4793.2	26.9
60°-70°	2138.2	12.0
70°-80°	183.8	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°	17796.6	100.0
0°-180°	17796.6	100.0

**Coefficient of Utilization**



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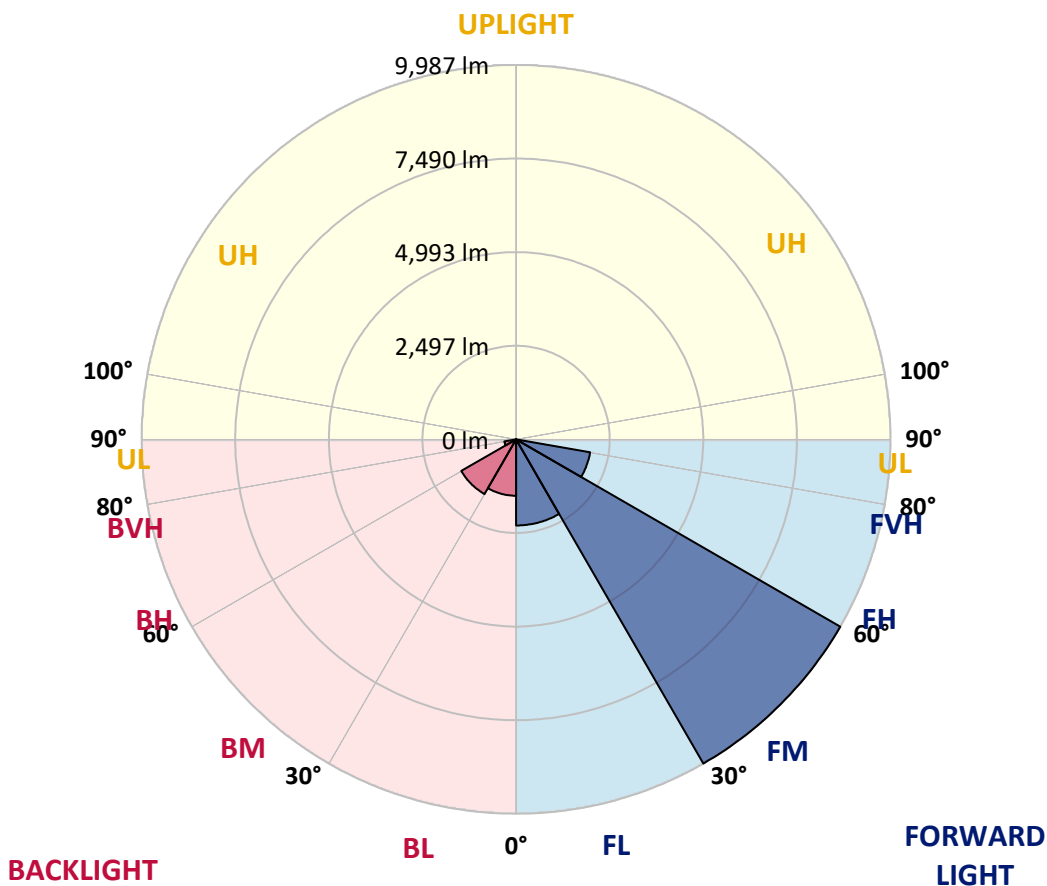
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2297.6	12.9			
FM (30°-60°)	9986.9	56.1			
FH (60°-80°)	2005.4	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1503.6	8.4	B3/2500		
BM (30°-60°)	1686.5	9.5	B2/2500		
BH (60°-80°)	316.6	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°	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0
2.5°	5800.8	5805.2	5807.3	5866.0	5887.7	5974.6	6020.3	6044.2	6107.2	6181.0	6241.9
5°	5411.9	5405.4	5416.3	5490.1	5537.9	5666.1	5735.6	5783.4	5922.5	6096.3	6241.9
7.5°	5073.0	5086.0	5099.1	5179.5	5251.2	5390.2	5490.1	5561.8	5755.2	6013.7	6259.2
10°	4834.0	4834.0	4853.6	4944.8	5029.6	5201.2	5301.1	5392.4	5622.7	5939.9	6278.8
12.5°	4658.0	4660.2	4684.1	4788.4	4886.2	5064.3	5168.6	5257.7	5511.9	5866.0	6283.1
15°	4575.5	4569.0	4588.5	4699.3	4808.0	4975.2	5083.9	5170.8	5433.7	5824.7	6304.9
17.5°	4553.8	4549.4	4564.6	4673.3	4784.1	4947.0	5053.5	5140.4	5422.8	5837.8	6370.0
20°	4616.8	4608.1	4601.6	4695.0	4799.3	4960.0	5070.8	5168.6	5474.9	5909.5	6470.0
22.5°	4766.7	4766.7	4751.5	4797.1	4866.6	5012.2	5127.3	5255.5	5611.8	6052.8	6617.7
25°	5042.6	5020.9	4992.6	5012.2	5003.5	5094.7	5231.6	5409.8	5870.4	6289.7	6798.0
27.5°	5357.6	5377.2	5329.4	5331.5	5255.5	5222.9	5381.5	5650.9	6254.9	6624.2	7065.3
30°	5785.6	5770.4	5772.6	5766.1	5590.1	5435.8	5607.5	5965.9	6739.4	7134.8	7412.9
32.5°	6120.2	6141.9	6213.6	6254.9	6024.6	5776.9	5959.4	6393.9	7291.2	7717.1	7838.7
35°	6474.3	6513.4	6659.0	6793.7	6600.3	6315.7	6511.3	6961.0	7810.5	8292.8	8327.6
37.5°	6848.0	6926.2	7100.0	7336.9	7306.4	7054.4	7232.6	7628.0	8218.9	8640.4	8731.7
40°	7276.0	7352.1	7636.7	7977.8	8049.5	7993.0	8051.6	8281.9	8488.3	8655.6	8905.5
42.5°	7745.3	7849.6	8210.2	8666.5	8935.9	8985.9	8849.0	8825.1	8605.6	8481.8	8868.5
45°	8299.3	8421.0	8829.4	9420.4	9848.4	9915.7	9678.9	9372.6	8679.5	8353.6	8757.7
47.5°	8920.7	9035.8	9442.1	10152.5	10789.1	10815.2	10402.4	9909.2	8898.9	8501.4	8842.5
50°	9129.2	9200.9	9552.9	10387.2	11560.4	11760.3	11162.8	10513.2	9340.0	8935.9	9255.3
52.5°	8412.3	8440.5	8746.9	9589.8	11403.9	12688.0	12273.0	11414.8	10124.3	9598.5	9891.8
55°	6665.5	6619.9	6867.6	7641.0	9911.4	12498.9	13278.9	12831.3	11134.5	10376.3	10719.6
57.5°	4662.4	4608.1	4551.6	5075.2	7395.5	10595.7	12236.1	13029.0	12097.0	11147.6	11612.5
60°	3832.5	3780.3	3506.6	3265.4	4471.2	7608.4	9398.6	10891.2	12018.8	11108.5	11584.3
62.5°	3311.0	3280.6	3169.8	2841.8	2631.0	4343.0	5885.6	7315.1	9222.7	8723.0	8749.0
65°	2600.6	2591.9	2667.9	2702.7	2326.8	2402.9	3002.5	3802.0	4986.1	4701.5	4458.2
67.5°	1777.2	1757.6	1901.0	2337.7	2237.8	1896.7	1757.6	1772.8	2157.4	1318.8	1047.2
70°	1129.7	1084.1	1086.3	1449.1	1820.6	1496.9	1355.7	1192.8	1073.3	195.5	221.6
72.5°	723.5	695.2	597.5	654.0	843.0	730.0	736.5	634.4	423.7	104.3	121.7
75°	304.2	280.3	215.1	171.6	169.5	106.5	93.4	86.9	58.7	58.7	63.0
77.5°	2.2	0.0	0.0	2.2	4.3	2.2	2.2	4.3	8.7	13.0	15.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
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°	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0	6244.0
2.5°	6278.8	6226.7	6285.3	6307.0	6304.9	6307.0	6244.0	6200.6	6198.4	6144.1	6118.0
5°	6302.7	6261.4	6304.9	6276.6	6209.3	6124.5	6011.6	5913.8	5870.4	5807.3	5776.9
7.5°	6348.3	6304.9	6298.4	6185.4	6018.1	5839.9	5640.1	5461.9	5366.3	5251.2	5257.7
10°	6380.9	6330.9	6246.2	6015.9	5737.8	5453.2	5155.6	4890.5	4723.2	4569.0	4542.9
12.5°	6393.9	6320.1	6122.4	5774.8	5383.7	5012.2	4575.5	4197.5	3936.7	3734.7	3706.4
15°	6417.8	6298.4	5963.8	5483.6	4947.0	4421.2	3865.0	3348.0	3002.5	2770.1	2789.6
17.5°	6454.8	6274.5	5785.6	5157.7	4477.7	3734.7	2983.0	2389.9	2072.7	1938.0	1940.1
20°	6506.9	6246.2	5590.1	4799.3	3915.0	2959.1	2085.7	1638.1	1549.1	1544.7	1538.2
22.5°	6576.4	6218.0	5381.5	4406.0	3248.0	2072.7	1388.3	1249.2	1286.2	1357.9	1370.9
25°	6659.0	6183.2	5149.0	3962.8	2520.2	1360.0	1040.7	1018.9	1108.0	1203.6	1225.3
27.5°	6787.2	6165.8	4884.0	3458.8	1768.5	975.5	851.7	864.7	945.1	1025.5	1045.0
30°	7004.4	6198.4	4595.0	2893.9	1136.3	777.8	738.7	758.2	801.7	843.0	860.3
32.5°	7299.9	6294.0	4314.8	2276.9	810.4	675.7	667.0	677.8	695.2	719.1	725.6
35°	7645.4	6459.1	4025.8	1629.4	669.2	617.0	608.3	608.3	617.0	621.4	623.5
37.5°	7930.0	6632.9	3754.2	1084.1	599.6	571.4	558.4	551.8	549.7	554.0	556.2
40°	8053.8	6704.6	3458.8	788.7	549.7	530.1	510.6	491.0	491.0	506.2	508.4
42.5°	7966.9	6624.2	3117.7	651.8	514.9	486.7	456.2	438.9	447.6	462.8	467.1
45°	7782.2	6426.5	2741.8	575.7	480.1	443.2	408.4	397.6	406.3	425.8	430.2
47.5°	7751.8	6296.2	2292.1	525.8	443.2	406.3	369.3	358.5	369.3	384.5	388.9
50°	8053.8	6409.2	1792.4	482.3	408.4	367.2	336.8	325.9	332.4	341.1	345.4
52.5°	8605.6	6828.5	1446.9	441.0	367.2	328.1	308.5	295.5	295.5	304.2	306.3
55°	9420.4	7560.6	1249.2	393.2	319.4	297.6	280.3	267.2	267.2	271.6	273.7
57.5°	10358.9	8447.0	1294.9	330.2	280.3	269.4	254.2	243.3	247.7	247.7	247.7
60°	10228.6	8381.9	1386.1	278.1	247.7	243.3	230.3	225.9	236.8	228.1	223.8
62.5°	7534.6	5790.0	725.6	228.1	212.9	208.6	199.9	208.6	223.8	199.9	191.2
65°	3658.6	2802.6	291.1	186.8	180.3	176.0	171.6	184.7	193.4	156.4	147.7
67.5°	860.3	699.6	189.0	158.6	149.9	141.2	145.6	147.7	141.2	106.5	102.1
70°	223.8	219.4	147.7	132.5	119.5	110.8	110.8	108.6	93.4	67.4	63.0
72.5°	121.7	119.5	106.5	99.9	82.6	73.9	76.0	67.4	52.1	39.1	36.9
75°	60.8	65.2	60.8	56.5	45.6	41.3	41.3	36.9	26.1	15.2	15.2
77.5°	13.0	15.2	15.2	13.0	10.9	8.7	8.7	10.9	4.3	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)