

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: P639232

Luminaire Tested: GWS-SA5B-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

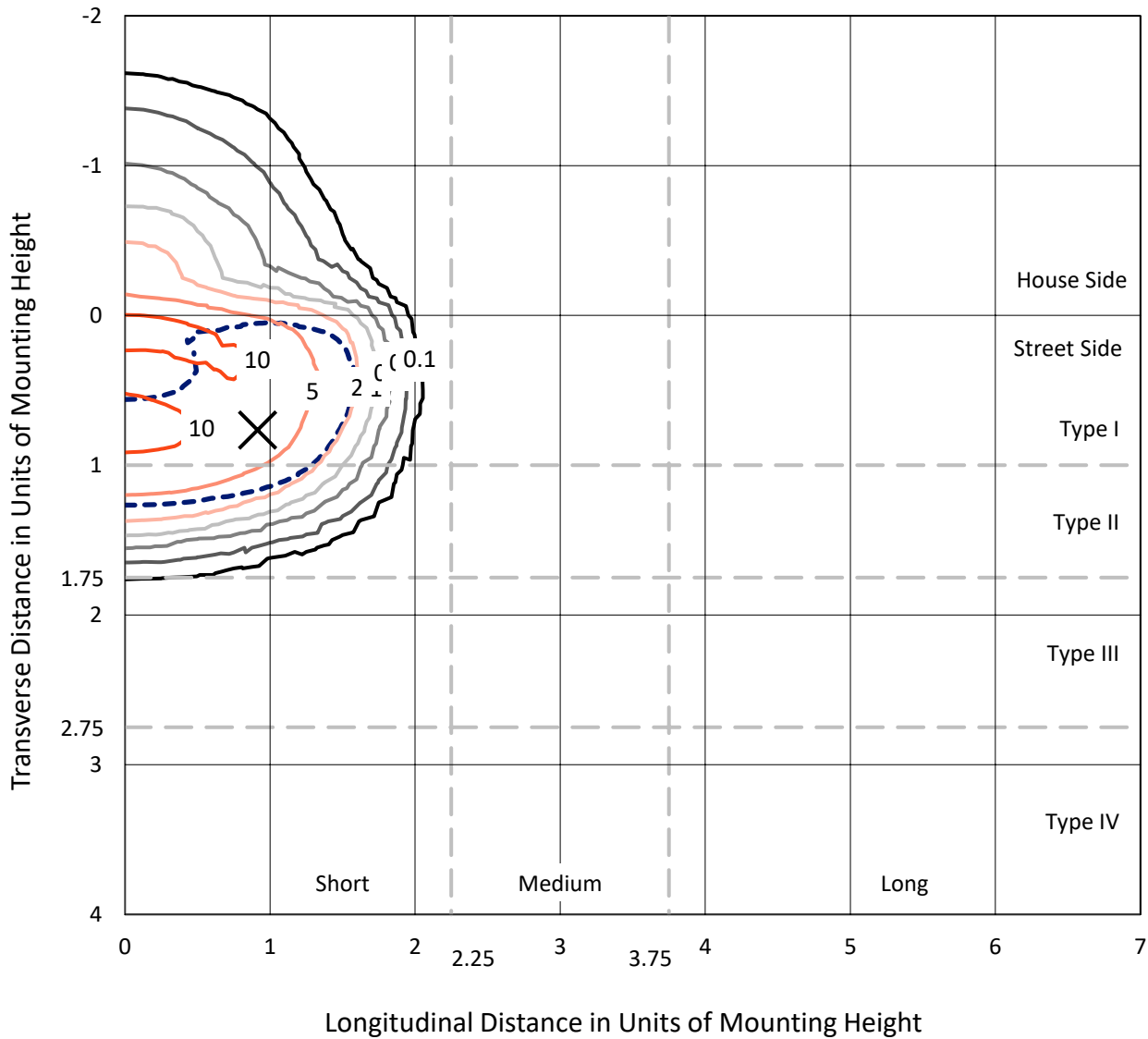
Lumens per Lamp: N/A  
Luminaire Lumens: 13372.7 lumens  
Efficiency: N/A  
Efficacy: 115.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

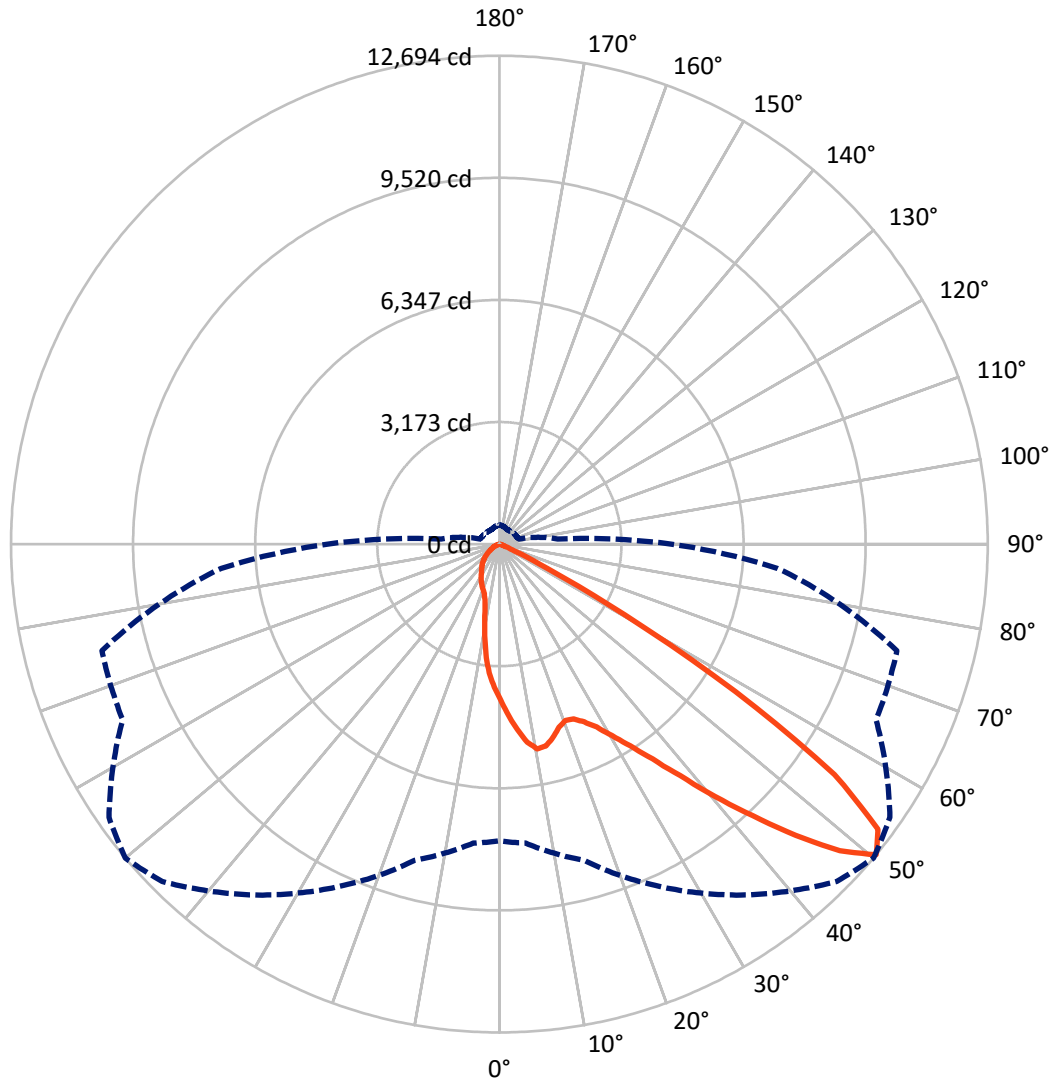
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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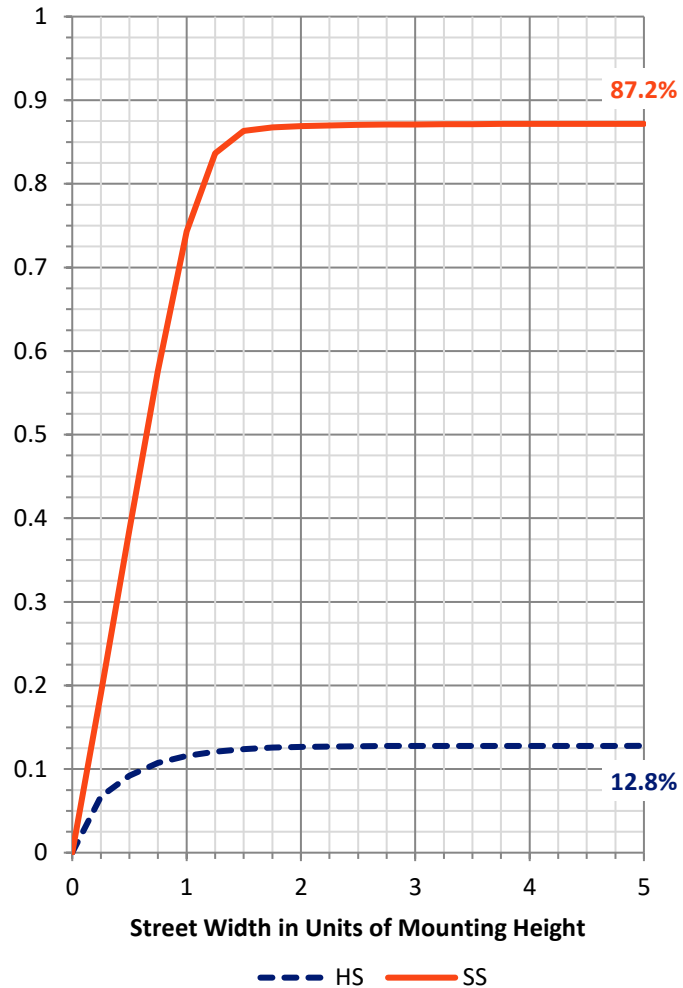
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1718.2	0.0	1718.2
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	11654.5	0.0	11654.5
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	13372.7	0.0	13372.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.8	2.8
10°-20°	969.7	7.3
20°-30°	1600.3	12.0
30°-40°	2640.8	19.7
40°-50°	4178.4	31.2
50°-60°	3163.5	23.7
60°-70°	395.9	3.0
70°-80°	44.8	0.3
80°-90°	3.4	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°	13372.7	100.0
0°-180°	13372.7	100.0

**Coefficient of Utilization**



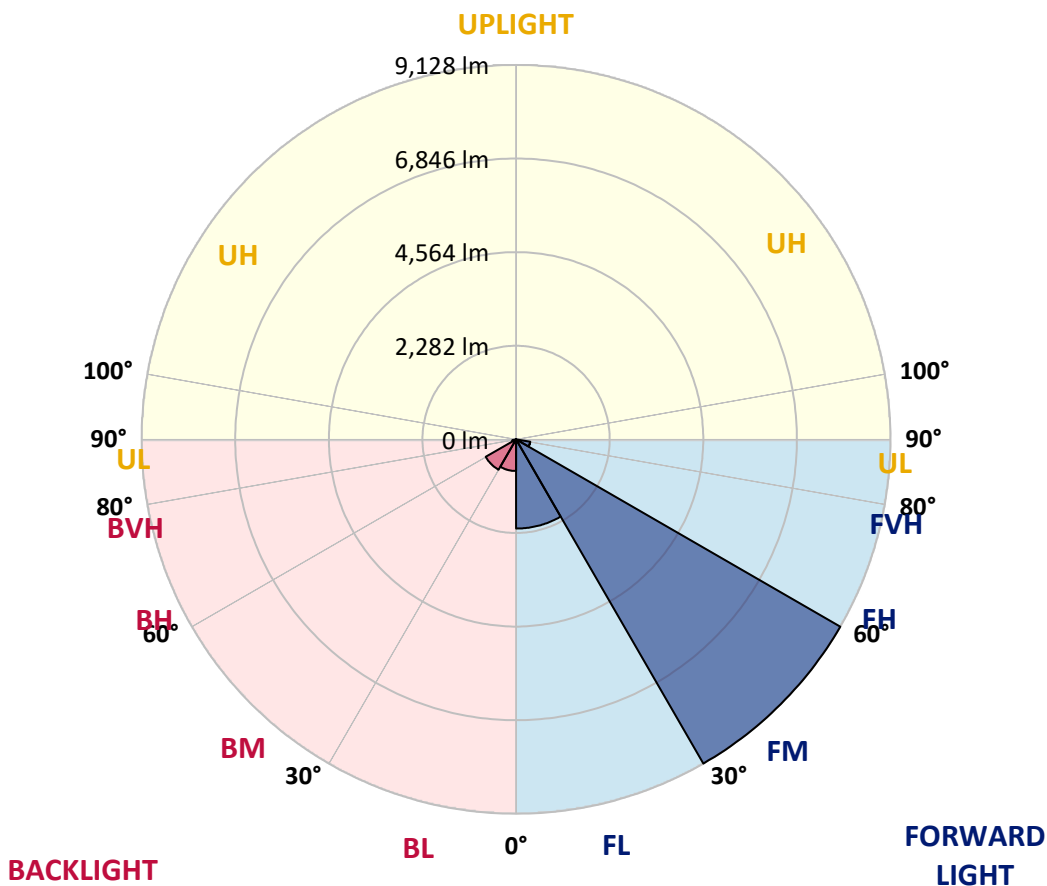
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2174.6	16.3			
FM (30°-60°)	9128.3	68.3			
FH (60°-80°)	350.1	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	771.2	5.8	B2/1000		
BM (30°-60°)	854.5	6.4	B1/1000		
BH (60°-80°)	90.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4
2.5°	4616.5	4653.4	4643.3	4594.9	4542.7	4505.8	4448.5	4430.7	4300.9	4210.5	4115.0
5°	5174.0	5185.5	5172.8	5114.2	5022.6	4934.7	4840.5	4785.8	4568.2	4372.1	4172.3
7.5°	5307.7	5293.7	5317.9	5347.1	5334.4	5296.2	5196.9	5137.1	4877.5	4558.0	4255.0
10°	4890.2	4858.4	4948.7	5100.2	5259.3	5438.8	5413.3	5418.4	5179.1	4792.2	4363.2
12.5°	4336.5	4323.8	4391.2	4566.9	4878.7	5286.0	5384.0	5548.2	5455.3	5045.5	4486.7
15°	4093.4	4099.8	4140.5	4251.2	4475.2	4981.8	5217.3	5513.9	5702.2	5291.1	4622.9
17.5°	4130.3	4153.2	4151.9	4188.9	4325.1	4731.1	5006.0	5405.7	5893.2	5573.7	4779.5
20°	4381.1	4404.0	4369.6	4341.6	4387.4	4667.4	4895.3	5296.2	6021.7	5858.8	4944.9
22.5°	4756.5	4783.3	4701.8	4621.6	4592.3	4771.8	4937.3	5251.7	6119.7	6119.7	5092.6
25°	5210.9	5247.9	5121.8	4979.3	4897.8	4992.0	5116.7	5352.2	6220.3	6353.9	5193.1
27.5°	5718.8	5720.1	5611.9	5451.5	5298.8	5310.2	5385.3	5578.8	6331.0	6606.0	5272.0
30°	6290.3	6294.1	6150.3	5958.1	5765.9	5713.7	5777.3	5923.7	6561.4	6922.9	5381.5
32.5°	7028.5	7046.3	6840.2	6557.6	6308.1	6210.1	6247.0	6401.0	6928.0	7320.0	5545.7
35°	8026.4	8045.5	7741.3	7368.4	6971.3	6823.6	6860.5	7015.8	7458.7	7883.9	5807.9
37.5°	9011.6	9037.0	8729.0	8381.5	7836.8	7592.4	7630.6	7778.2	8255.5	8662.8	6227.9
40°	9692.5	9726.9	9631.5	9397.3	8891.9	8571.2	8617.0	8670.5	9132.5	9594.5	6772.7
42.5°	10051.5	10099.9	10140.6	10260.2	9994.2	9725.6	9648.0	9651.8	10024.8	10544.1	7339.1
45°	10073.1	10120.2	10329.0	10791.0	10993.4	10937.4	10796.1	10700.6	10705.7	11176.7	7692.9
47.5°	9373.1	9460.9	9851.7	10756.6	11517.8	11982.4	11911.1	11684.5	10992.1	11218.7	7654.8
50°	7714.6	7801.1	8511.4	9813.5	11135.9	12399.8	12693.9	12389.7	10805.0	10695.5	7261.5
52.5°	5603.0	5611.9	6072.6	7593.7	9588.2	11629.8	12322.2	12292.9	10519.9	10061.7	6724.3
55°	2661.5	2629.7	3147.7	4285.6	6631.4	9406.2	10573.3	10904.3	10115.1	9603.5	6308.1
57.5°	775.1	790.4	1020.8	1672.5	3317.0	6011.5	7241.1	7857.1	8302.6	7895.3	4892.7
60°	347.5	348.8	388.2	509.1	1104.8	2796.4	3743.4	4505.8	4964.0	4600.0	2427.3
62.5°	252.0	253.3	268.6	287.7	375.5	947.0	1403.9	1871.1	1905.4	1247.4	614.8
65°	210.0	210.0	212.6	212.6	225.3	338.6	426.4	549.9	463.3	343.7	240.6
67.5°	169.3	170.6	173.1	173.1	169.3	169.3	183.3	201.1	215.1	266.0	221.5
70°	132.4	131.1	131.1	132.4	128.6	109.5	118.4	134.9	147.6	207.5	192.2
72.5°	103.1	104.4	103.1	98.0	89.1	64.9	70.0	87.8	94.2	129.8	129.8
75°	77.6	78.9	73.8	56.0	36.9	20.4	26.7	43.3	54.7	63.6	47.1
77.5°	10.2	10.2	7.6	7.6	6.4	7.6	7.6	10.2	15.3	15.3	11.5
80°	1.3	1.3	1.3	2.5	3.8	5.1	5.1	5.1	5.1	6.4	6.4
82.5°	1.3	1.3	1.3	1.3	3.8	3.8	5.1	5.1	5.1	5.1	5.1
85°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	5.1	5.1	5.1	5.1
87.5°	0.0	0.0	0.0	1.3	2.5	3.8	3.8	3.8	5.1	5.1	5.1
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°	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4	4051.4
2.5°	4057.8	3983.9	3894.8	3833.7	3747.2	3689.9	3608.5	3553.7	3506.6	3469.7	3490.1
5°	4059.0	3941.9	3759.9	3604.6	3435.3	3280.1	3113.3	2982.2	2863.9	2810.4	2839.7
7.5°	4084.5	3916.5	3637.7	3361.5	3037.0	2716.2	2415.8	2171.4	2050.5	1993.2	2011.1
10°	4134.1	3905.0	3501.5	3043.3	2516.4	2078.5	1787.0	1621.6	1554.1	1518.5	1524.8
12.5°	4180.0	3897.4	3324.6	2624.6	1985.6	1612.7	1461.2	1438.3	1452.3	1453.6	1452.3
15°	4242.3	3883.4	3105.7	2194.3	1588.5	1393.7	1397.6	1430.7	1463.7	1473.9	1471.4
17.5°	4308.5	3861.7	2823.1	1782.0	1347.9	1330.1	1374.6	1419.2	1452.3	1457.4	1458.7
20°	4377.2	3817.2	2501.1	1454.8	1235.9	1281.7	1331.4	1364.5	1388.7	1396.3	1398.8
22.5°	4409.1	3723.0	2129.4	1220.6	1160.8	1221.9	1258.8	1302.1	1309.7	1281.7	1286.8
25°	4392.5	3563.9	1766.7	1062.8	1085.7	1146.8	1201.5	1179.9	1148.1	1127.7	1134.1
27.5°	4340.3	3352.6	1411.6	947.0	1005.5	1083.2	1089.5	1065.4	1060.3	1043.7	1048.8
30°	4284.3	3109.5	1135.4	854.1	924.1	1005.5	986.4	995.3	996.6	977.5	983.9
32.5°	4250.0	2854.9	903.7	791.7	871.9	887.2	925.3	943.2	944.4	899.9	907.5
35°	4261.4	2604.2	765.0	740.8	823.5	819.7	873.2	883.3	809.5	748.4	754.8
37.5°	4354.3	2372.5	686.1	701.3	739.5	768.8	809.5	742.1	725.5	697.5	701.3
40°	4527.4	2175.3	639.0	677.1	682.2	729.3	667.0	675.9	677.1	659.3	663.1
42.5°	4729.8	2011.1	611.0	663.1	650.4	658.0	595.7	613.5	632.6	625.0	626.2
45°	4831.6	1850.7	586.8	614.8	618.6	546.0	532.0	551.1	575.3	579.1	580.4
47.5°	4741.3	1697.9	561.3	544.8	570.2	497.7	481.1	487.5	515.5	530.8	533.3
50°	4465.1	1522.3	523.1	482.4	468.4	446.8	431.5	432.8	464.6	491.3	496.4
52.5°	4076.9	1339.0	460.8	408.6	376.8	393.3	397.1	389.5	418.8	445.5	450.6
55°	3700.1	1109.9	365.3	332.2	302.9	338.6	348.8	338.6	347.5	365.3	366.6
57.5°	2605.5	627.5	280.0	274.9	250.7	290.2	306.8	291.5	276.2	287.7	290.2
60°	1207.9	328.4	215.1	215.1	208.7	249.5	277.5	255.8	226.6	231.7	235.5
62.5°	378.0	207.5	157.8	148.9	170.6	212.6	235.5	213.8	179.5	179.5	184.6
65°	213.8	178.2	124.7	114.6	138.7	170.6	184.6	161.6	131.1	128.6	128.6
67.5°	198.6	169.3	110.7	92.9	98.0	109.5	114.6	99.3	90.4	89.1	90.4
70°	164.2	141.3	89.1	63.6	59.8	58.5	61.1	57.3	54.7	56.0	59.8
72.5°	101.8	85.3	56.0	38.2	33.1	31.8	31.8	31.8	30.5	30.5	30.5
75°	36.9	31.8	25.5	19.1	16.5	15.3	15.3	16.5	15.3	14.0	12.7
77.5°	11.5	10.2	10.2	10.2	8.9	7.6	6.4	6.4	5.1	3.8	3.8
80°	6.4	6.4	6.4	6.4	5.1	5.1	3.8	2.5	1.3	1.3	0.0
82.5°	6.4	6.4	6.4	5.1	5.1	5.1	3.8	2.5	1.3	0.0	0.0
85°	5.1	5.1	5.1	5.1	5.1	5.1	3.8	2.5	1.3	0.0	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	3.8	2.5	1.3	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)