

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: P635217

Luminaire Tested: GWS-SA3D-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635217  
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-SA3D-735-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

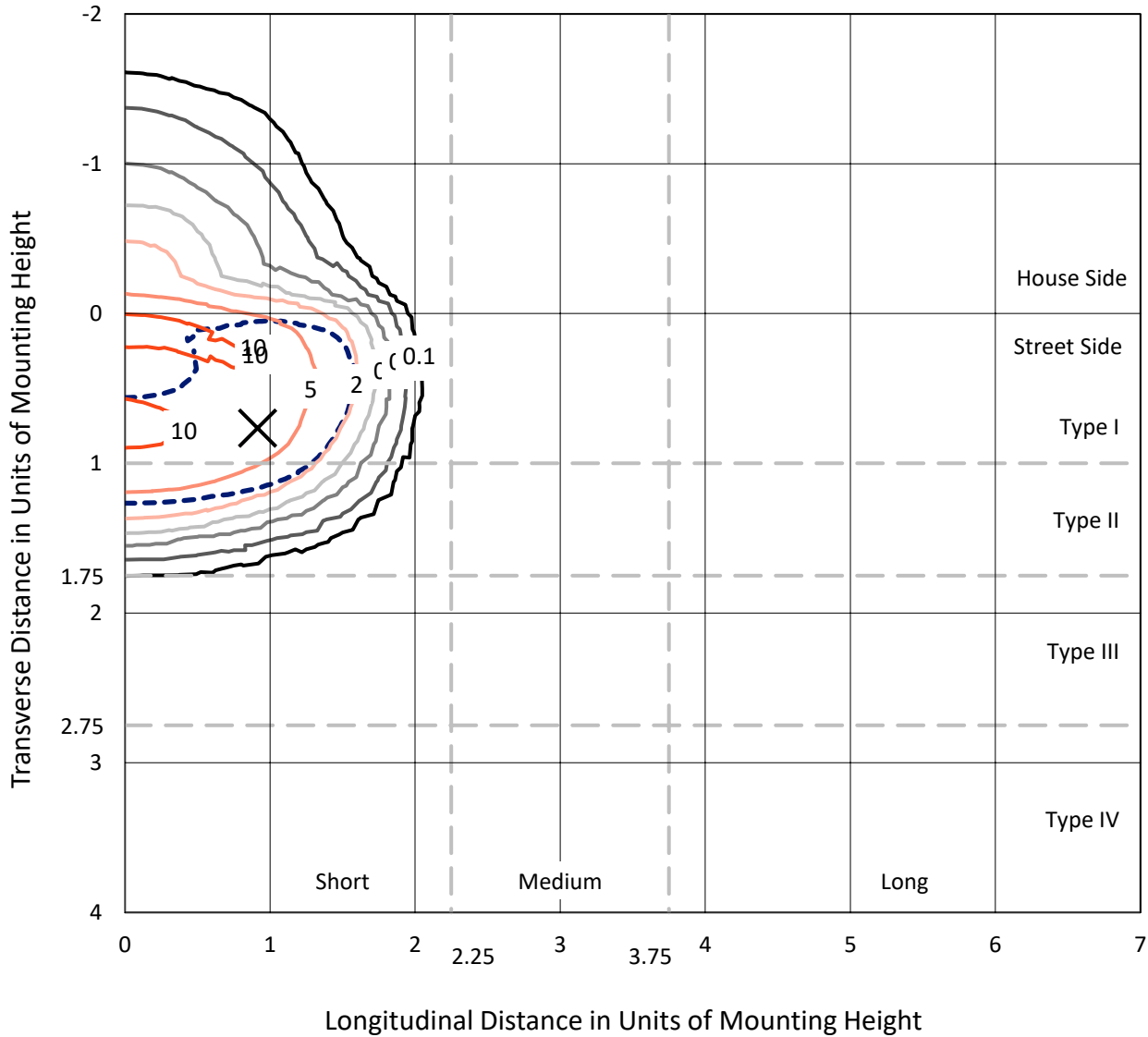
Lumens per Lamp: N/A  
Luminaire Lumens: 13072.3 lumens  
Efficiency: N/A  
Efficacy: 108.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

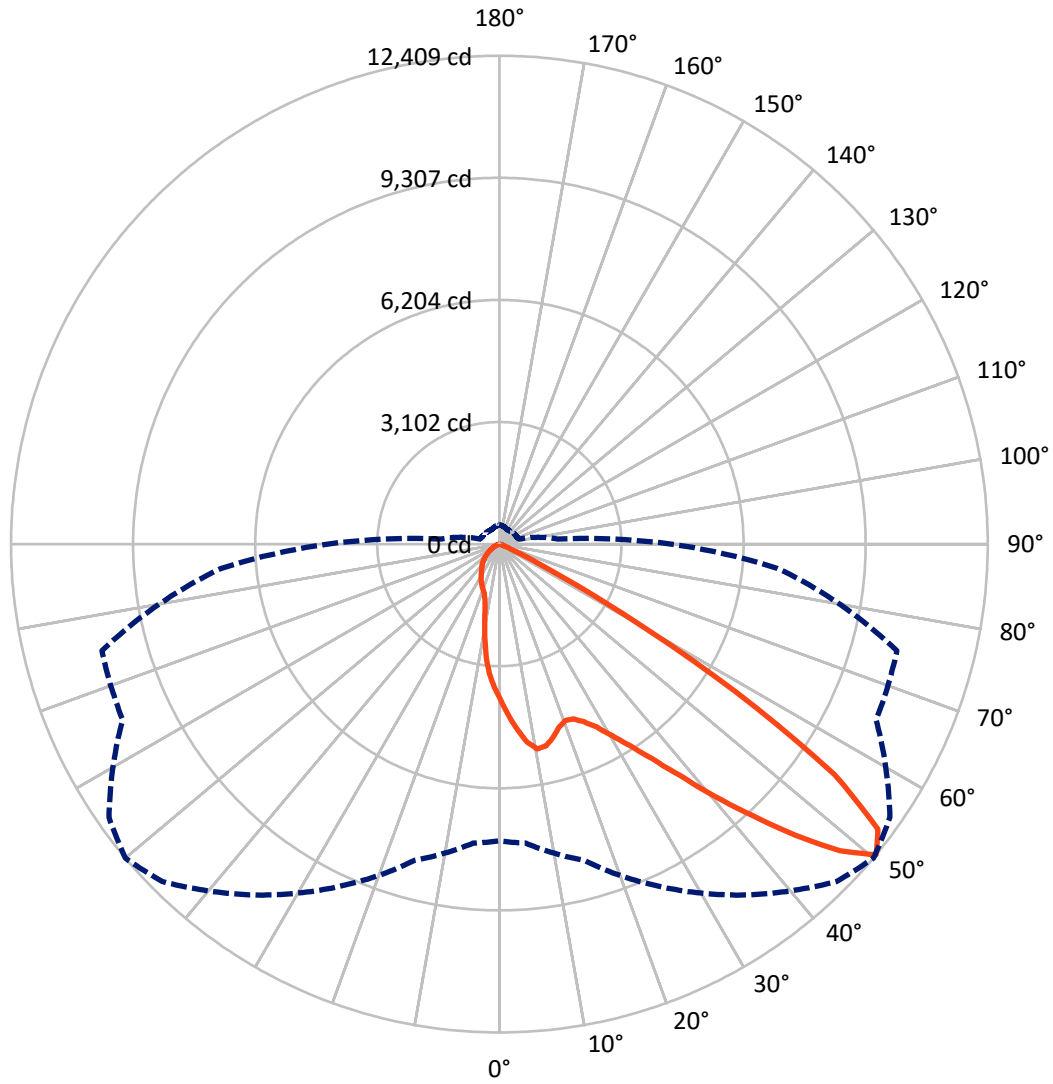
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.7 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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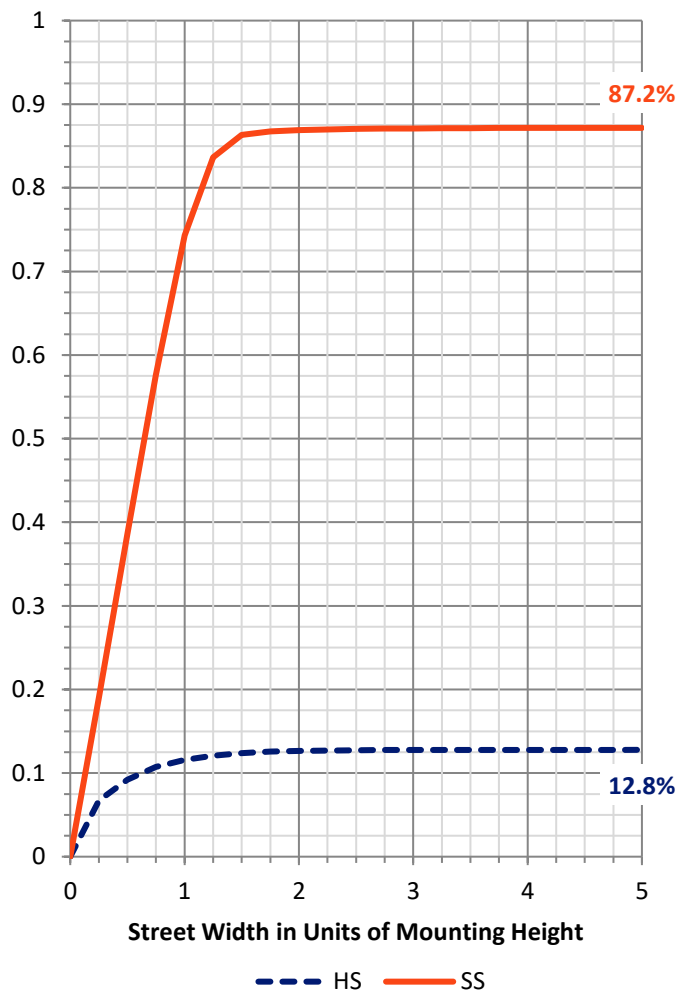
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1679.6	0.0	1679.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	11392.7	0.0	11392.7
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	13072.3	0.0	13072.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.4	2.8
10°-20°	947.9	7.3
20°-30°	1564.3	12.0
30°-40°	2581.5	19.7
40°-50°	4084.5	31.2
50°-60°	3092.5	23.7
60°-70°	387.0	3.0
70°-80°	43.8	0.3
80°-90°	3.3	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°	13072.3	100.0
0°-180°	13072.3	100.0

**Coefficient of Utilization**



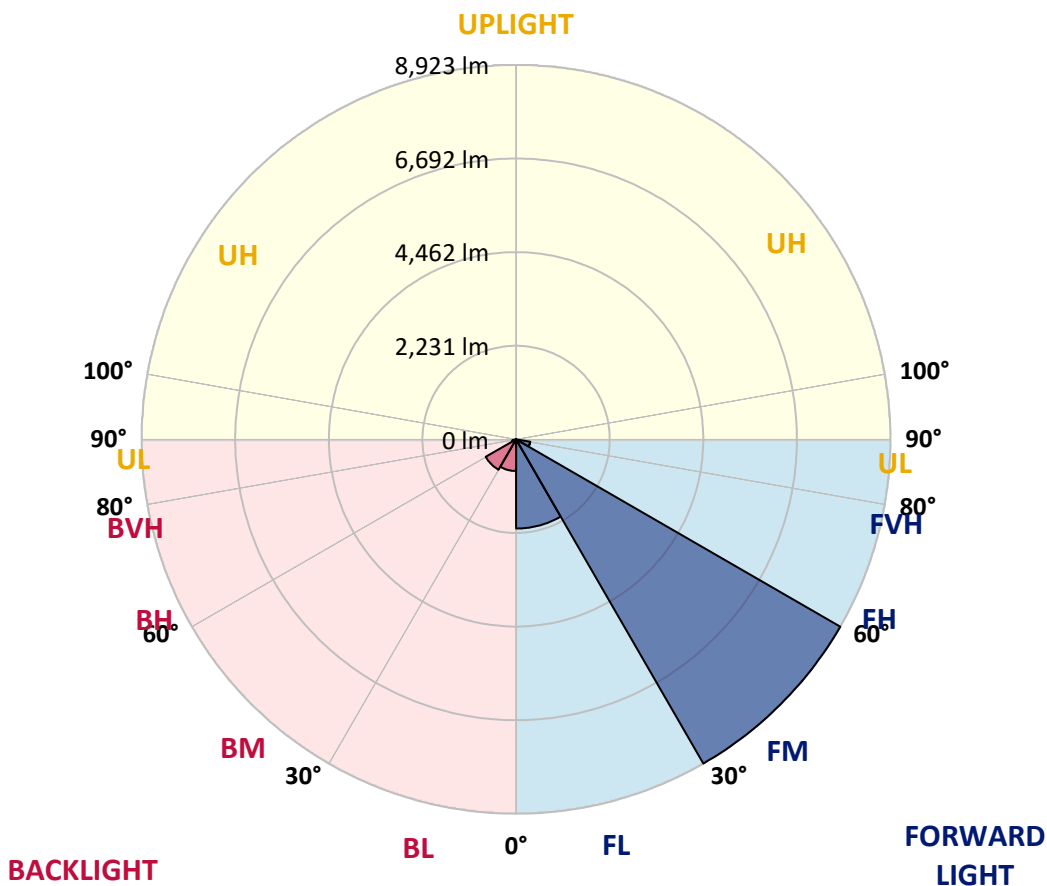
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2125.7	16.3			
FM (30°-60°)	8923.2	68.3			
FH (60°-80°)	342.2	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	753.9	5.8	B2/1000		
BM (30°-60°)	835.3	6.4	B1/1000		
BH (60°-80°)	88.6	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°	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4
2.5°	4512.8	4548.9	4539.0	4491.7	4440.7	4404.6	4348.6	4331.2	4204.3	4115.9	4022.6
5°	5057.8	5069.0	5056.6	4999.3	4909.7	4823.9	4731.8	4678.3	4465.5	4273.9	4078.6
7.5°	5188.4	5174.8	5198.4	5227.0	5214.6	5177.2	5080.2	5021.7	4767.9	4455.6	4159.5
10°	4780.3	4749.2	4837.6	4985.6	5141.2	5316.6	5291.7	5296.7	5062.8	4684.5	4265.2
12.5°	4239.1	4226.7	4292.6	4464.3	4769.1	5167.3	5263.1	5423.6	5332.8	4932.1	4385.9
15°	4001.4	4007.7	4047.5	4155.7	4374.7	4869.9	5100.1	5390.0	5574.2	5172.3	4519.0
17.5°	4037.5	4059.9	4058.7	4094.8	4227.9	4624.8	4893.6	5284.2	5760.8	5448.5	4672.1
20°	4282.6	4305.0	4271.4	4244.1	4288.9	4562.6	4785.3	5177.2	5886.5	5727.2	4833.8
22.5°	4649.7	4675.8	4596.2	4517.8	4489.2	4664.6	4826.4	5133.7	5982.3	5982.3	4978.2
25°	5093.9	5130.0	5006.8	4867.4	4787.8	4879.9	5001.8	5232.0	6080.6	6211.2	5076.5
27.5°	5590.3	5591.6	5485.8	5329.0	5179.7	5190.9	5264.3	5453.5	6188.8	6457.6	5153.6
30°	6149.0	6152.7	6012.1	5824.2	5636.4	5585.4	5647.6	5790.7	6414.0	6767.4	5260.6
32.5°	6870.6	6888.1	6686.5	6410.3	6166.4	6070.6	6106.7	6257.2	6772.3	7155.6	5421.1
35°	7846.1	7864.8	7567.4	7202.9	6814.7	6670.3	6706.4	6858.2	7291.2	7706.8	5677.4
37.5°	8809.2	8834.0	8532.9	8193.3	7660.7	7421.8	7459.2	7603.5	8070.1	8468.2	6088.0
40°	9474.8	9508.4	9415.1	9186.2	8692.2	8378.7	8423.4	8475.7	8927.4	9379.0	6620.6
42.5°	9825.7	9873.0	9912.8	10029.7	9769.7	9507.2	9431.3	9435.0	9799.6	10307.2	7174.2
45°	9846.8	9892.9	10096.9	10548.6	10746.4	10691.7	10553.6	10460.2	10465.2	10925.6	7520.1
47.5°	9162.5	9248.4	9630.3	10515.0	11259.0	11713.2	11643.5	11422.0	10745.2	10966.7	7482.8
50°	7541.3	7625.9	8320.2	9593.0	10885.8	12121.3	12408.7	12111.3	10562.3	10455.3	7098.3
52.5°	5477.1	5485.8	5936.2	7423.1	9372.8	11368.5	12045.4	12016.8	10283.6	9835.6	6573.3
55°	2601.7	2570.6	3077.0	4189.3	6482.4	9194.9	10335.8	10659.3	9887.9	9387.7	6166.4
57.5°	757.7	772.7	997.9	1634.9	3242.5	5876.5	7078.4	7680.6	8116.1	7718.0	4782.8
60°	339.7	340.9	379.5	497.7	1080.0	2733.6	3659.3	4404.6	4852.5	4496.7	2372.7
62.5°	246.4	247.6	262.5	281.2	367.0	925.7	1372.4	1829.0	1862.6	1219.3	601.0
65°	205.3	205.3	207.8	207.8	220.2	331.0	416.8	537.5	452.9	335.9	235.2
67.5°	165.5	166.7	169.2	169.2	165.5	165.5	179.2	196.6	210.3	260.0	216.5
70°	129.4	128.2	128.2	129.4	125.7	107.0	115.7	131.9	144.3	202.8	187.9
72.5°	100.8	102.0	100.8	95.8	87.1	63.5	68.4	85.9	92.1	126.9	126.9
75°	75.9	77.1	72.2	54.7	36.1	19.9	26.1	42.3	53.5	62.2	46.0
77.5°	10.0	10.0	7.5	7.5	6.2	7.5	7.5	10.0	14.9	14.9	11.2
80°	1.2	1.2	1.2	2.5	3.7	5.0	5.0	5.0	5.0	6.2	6.2
82.5°	1.2	1.2	1.2	1.2	3.7	3.7	5.0	5.0	5.0	5.0	5.0
85°	0.0	0.0	0.0	1.2	2.5	3.7	3.7	5.0	5.0	5.0	5.0
87.5°	0.0	0.0	0.0	1.2	2.5	3.7	3.7	3.7	5.0	5.0	5.0
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°	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4	3960.4
2.5°	3966.6	3894.4	3807.3	3747.6	3663.0	3607.0	3527.4	3473.9	3427.9	3391.8	3411.7
5°	3967.9	3853.4	3675.5	3523.7	3358.2	3206.4	3043.4	2915.2	2799.5	2747.3	2775.9
7.5°	3992.7	3828.5	3556.0	3286.0	2968.7	2655.2	2361.6	2122.7	2004.5	1948.5	1965.9
10°	4041.3	3817.3	3422.9	2975.0	2459.8	2031.8	1746.9	1585.2	1519.2	1484.4	1490.6
12.5°	4086.1	3809.8	3249.9	2565.6	1941.0	1576.4	1428.4	1406.0	1419.7	1420.9	1419.7
15°	4147.0	3796.1	3035.9	2145.1	1552.8	1362.4	1366.2	1398.5	1430.9	1440.8	1438.3
17.5°	4211.7	3775.0	2759.7	1741.9	1317.6	1300.2	1343.8	1387.3	1419.7	1424.6	1425.9
20°	4278.9	3731.4	2444.9	1422.2	1208.1	1252.9	1301.5	1333.8	1357.5	1364.9	1367.4
22.5°	4310.0	3639.4	2081.6	1193.2	1134.7	1194.5	1230.5	1272.8	1280.3	1252.9	1257.9
25°	4293.8	3483.8	1727.0	1038.9	1061.3	1121.1	1174.6	1153.4	1122.3	1102.4	1108.6
27.5°	4242.8	3277.3	1379.9	925.7	982.9	1058.8	1065.1	1041.4	1036.4	1020.3	1025.2
30°	4188.1	3039.7	1109.9	834.9	903.3	982.9	964.3	973.0	974.2	955.6	961.8
32.5°	4154.5	2790.8	883.4	773.9	852.3	867.2	904.6	922.0	923.2	879.7	887.1
35°	4165.7	2545.7	747.8	724.1	805.0	801.3	853.5	863.5	791.3	731.6	737.8
37.5°	4256.5	2319.2	670.6	685.6	722.9	751.5	791.3	725.4	709.2	681.8	685.6
40°	4425.7	2126.4	624.6	661.9	666.9	712.9	652.0	660.7	661.9	644.5	648.2
42.5°	4623.6	1965.9	597.2	648.2	635.8	643.3	582.3	599.7	618.4	610.9	612.2
45°	4723.1	1809.1	573.6	601.0	604.7	533.8	520.1	538.8	562.4	566.1	567.4
47.5°	4634.8	1659.8	548.7	532.5	557.4	486.5	470.3	476.5	503.9	518.8	521.3
50°	4364.8	1488.1	511.4	471.6	457.9	436.7	421.8	423.0	454.1	480.3	485.3
52.5°	3985.3	1308.9	450.4	399.4	368.3	384.5	388.2	380.7	409.4	435.5	440.5
55°	3617.0	1085.0	357.1	324.7	296.1	331.0	340.9	331.0	339.7	357.1	358.3
57.5°	2546.9	613.4	273.7	268.8	245.1	283.7	299.9	284.9	270.0	281.2	283.7
60°	1180.8	321.0	210.3	210.3	204.1	243.9	271.2	250.1	221.5	226.5	230.2
62.5°	369.5	202.8	154.3	145.6	166.7	207.8	230.2	209.0	175.4	175.4	180.4
65°	209.0	174.2	121.9	112.0	135.6	166.7	180.4	158.0	128.2	125.7	125.7
67.5°	194.1	165.5	108.2	90.8	95.8	107.0	112.0	97.1	88.3	87.1	88.3
70°	160.5	138.1	87.1	62.2	58.5	57.2	59.7	56.0	53.5	54.7	58.5
72.5°	99.5	83.4	54.7	37.3	32.4	31.1	31.1	31.1	29.9	29.9	29.9
75°	36.1	31.1	24.9	18.7	16.2	14.9	14.9	16.2	14.9	13.7	12.4
77.5°	11.2	10.0	10.0	10.0	8.7	7.5	6.2	6.2	5.0	3.7	3.7
80°	6.2	6.2	6.2	6.2	5.0	5.0	3.7	2.5	1.2	1.2	0.0
82.5°	6.2	6.2	6.2	5.0	5.0	5.0	3.7	2.5	1.2	0.0	0.0
85°	5.0	5.0	5.0	5.0	5.0	5.0	3.7	2.5	1.2	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.7	2.5	1.2	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)