

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: P633787

Luminaire Tested: GWS-SA2F-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633787  
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-SA2F-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

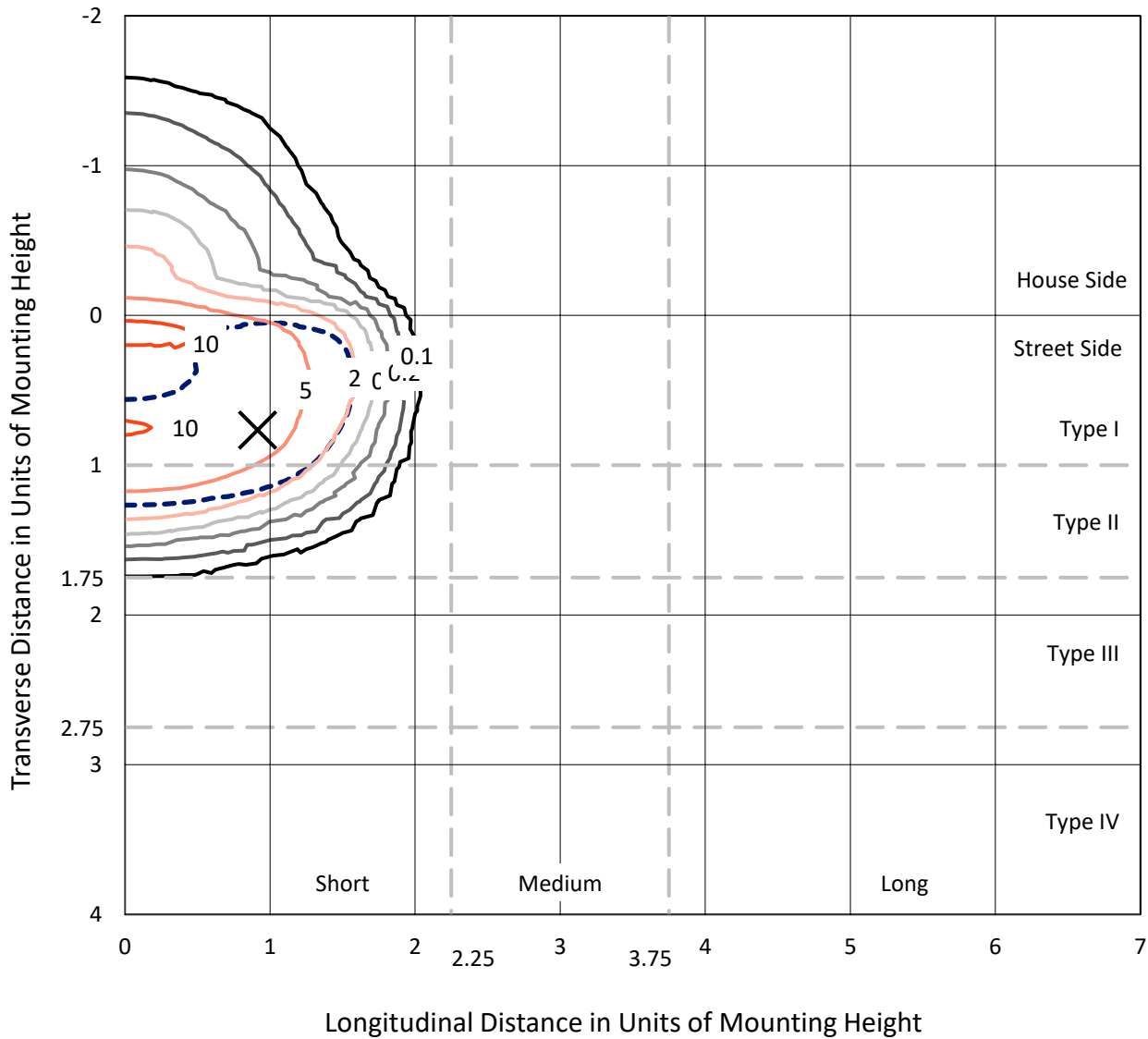
Lumens per Lamp: N/A  
Luminaire Lumens: 12218 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P633787  
 CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-GRSBK

### Iso-Footcandle Lines of Horizontal Illumination

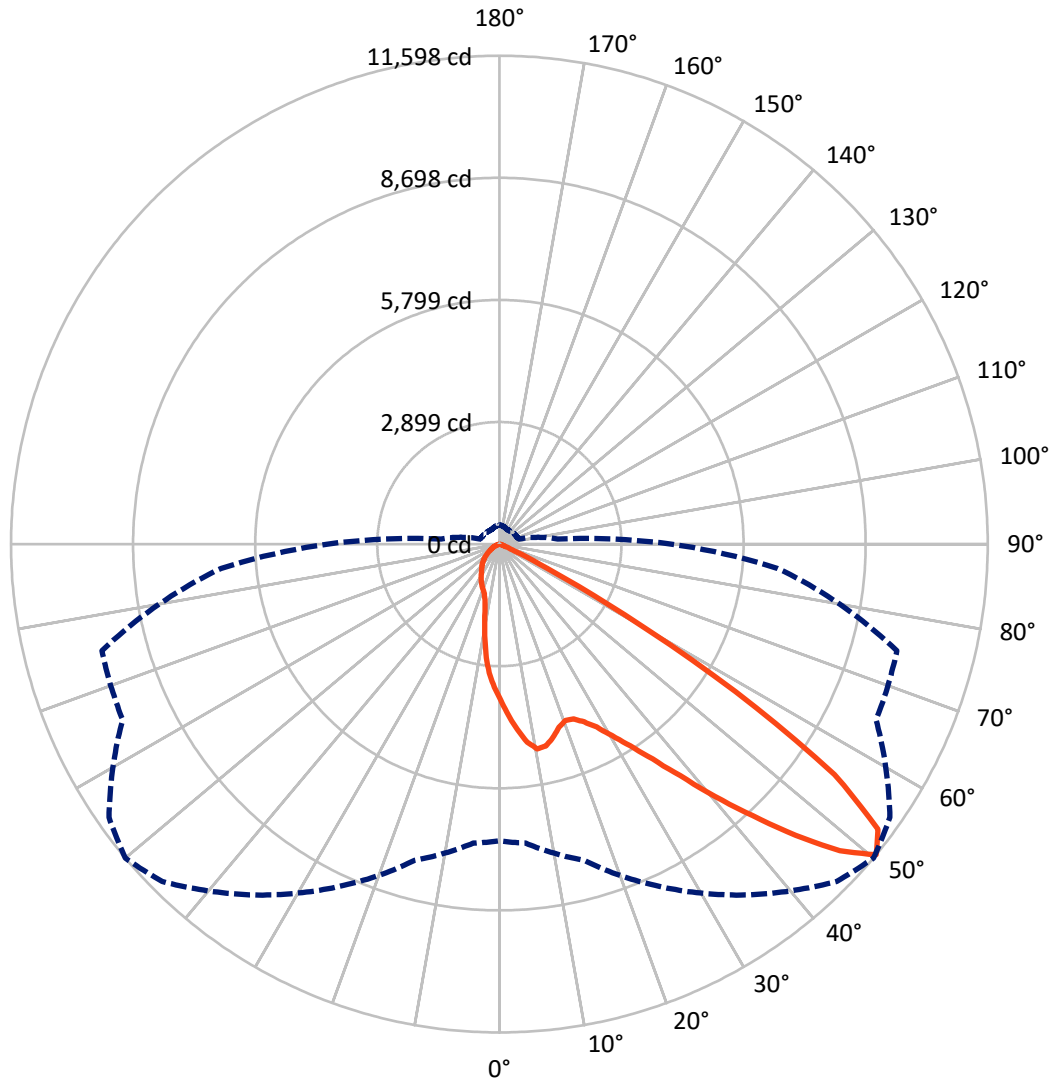
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P633787  
CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-GRSBK

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P633787  
 CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-GRSBK

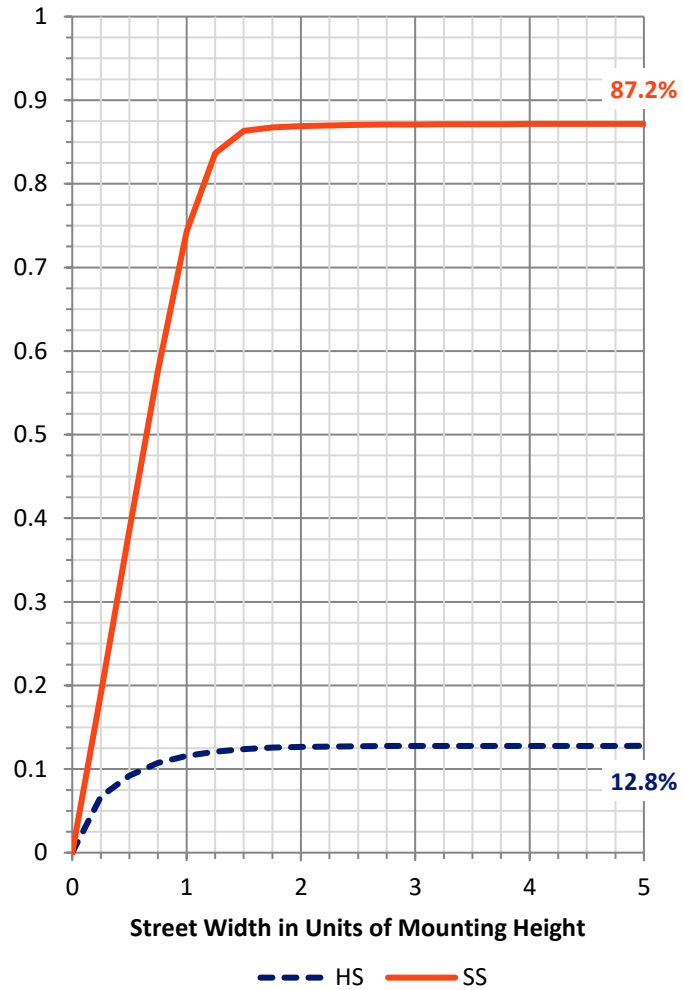
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1569.8	0.0	1569.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	10648.2	0.0	10648.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	12218.0	0.0	12218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.4	2.8
10°-20°	885.9	7.3
20°-30°	1462.1	12.0
30°-40°	2412.8	19.7
40°-50°	3817.6	31.2
50°-60°	2890.4	23.7
60°-70°	361.7	3.0
70°-80°	40.9	0.3
80°-90°	3.1	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°	12218.0	100.0
0°-180°	12218.0	100.0

**Coefficient of Utilization**



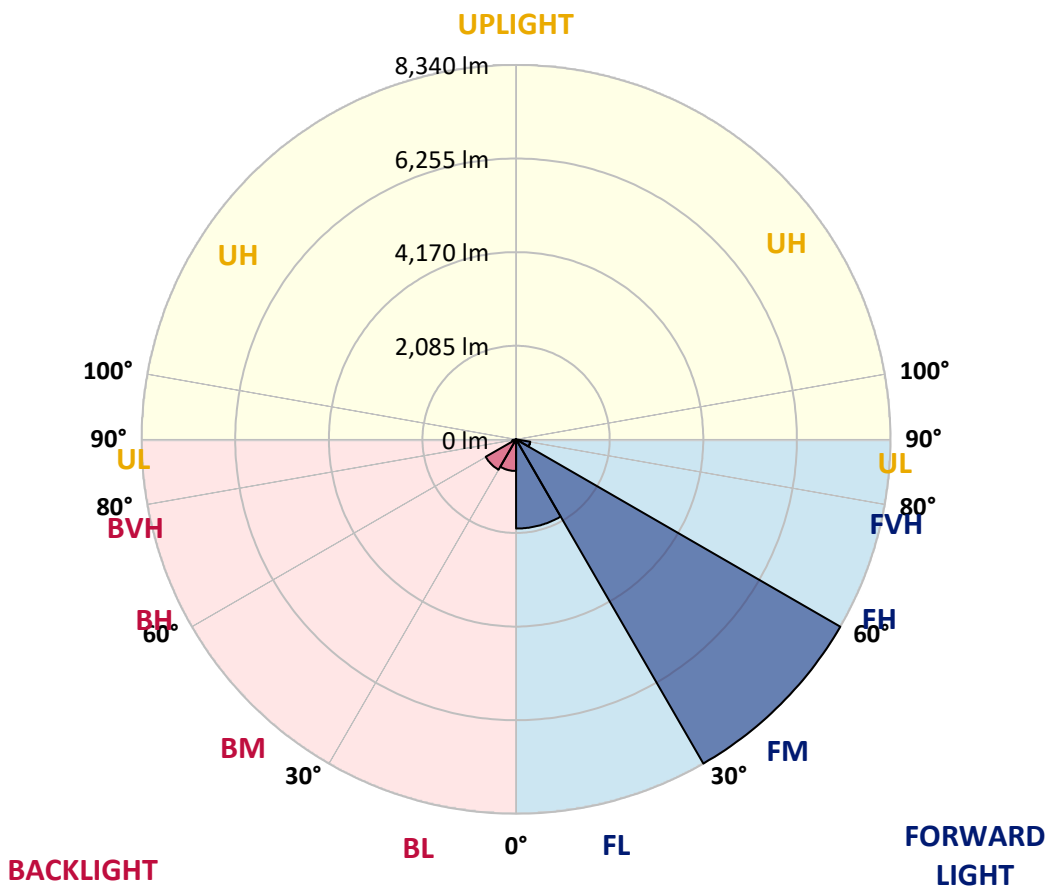
REPORT NUMBER: P633787

CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-GRSBK

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1986.8	16.3			
FM (30°-60°)	8340.1	68.3			
FH (60°-80°)	319.8	2.6			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	704.6	5.8	B2/1000		
BM (30°-60°)	780.7	6.4	B1/1000		
BH (60°-80°)	82.8	0.7	B0/110		G0/110
BVH (80°-90°)	1.7	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





REPORT NUMBER: P633787  
 CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-GRSBK

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6
2.5°	4217.9	4251.6	4242.3	4198.1	4150.5	4116.7	4064.4	4048.1	3929.5	3846.9	3759.7
5°	4727.3	4737.7	4726.1	4672.6	4588.9	4508.6	4422.6	4372.6	4173.7	3994.6	3812.0
7.5°	4849.4	4836.6	4858.7	4885.4	4873.8	4838.9	4748.2	4693.5	4456.3	4164.4	3887.6
10°	4467.9	4438.9	4521.4	4659.8	4805.2	4969.1	4945.9	4950.5	4731.9	4378.4	3986.5
12.5°	3962.1	3950.4	4012.1	4172.6	4457.5	4829.6	4919.1	5069.2	4984.3	4609.8	4099.3
15°	3739.9	3745.8	3783.0	3884.1	4088.8	4551.7	4766.8	5037.8	5209.9	4834.3	4223.7
17.5°	3773.7	3794.6	3793.4	3827.2	3951.6	4322.6	4573.8	4938.9	5384.3	5092.4	4366.8
20°	4002.8	4023.7	3992.3	3966.7	4008.6	4264.4	4472.6	4838.9	5501.8	5352.9	4517.9
22.5°	4345.8	4370.2	4295.8	4222.6	4195.8	4359.8	4511.0	4798.2	5591.3	5591.3	4652.8
25°	4761.0	4794.7	4679.6	4549.3	4474.9	4561.0	4674.9	4890.1	5683.2	5805.3	4744.7
27.5°	5225.0	5226.2	5127.3	4980.8	4841.2	4851.7	4920.3	5097.1	5784.4	6035.5	4816.8
30°	5747.1	5750.6	5619.2	5443.6	5268.0	5220.3	5278.5	5412.2	5994.8	6325.1	4916.8
32.5°	6421.6	6437.9	6249.5	5991.4	5763.4	5673.9	5707.6	5848.3	6329.8	6687.9	5066.8
35°	7333.4	7350.8	7072.9	6732.1	6369.3	6234.4	6268.1	6410.0	6814.7	7203.1	5306.4
37.5°	8233.5	8256.7	7975.3	7657.8	7160.1	6936.8	6971.7	7106.6	7542.7	7914.8	5690.2
40°	8855.6	8887.0	8799.8	8585.8	8124.1	7831.1	7873.0	7921.8	8343.9	8766.1	6187.9
42.5°	9183.6	9227.8	9265.0	9374.3	9131.2	8885.9	8814.9	8818.4	9159.1	9633.6	6705.4
45°	9203.3	9246.4	9437.1	9859.2	10044.1	9993.0	9863.9	9776.7	9781.3	10211.6	7028.7
47.5°	8563.7	8644.0	9001.0	9827.8	10523.2	10947.7	10882.6	10675.6	10043.0	10250.0	6993.8
50°	7048.4	7127.5	7776.4	8966.1	10174.4	11329.1	11597.8	11319.8	9872.0	9772.0	6634.4
52.5°	5119.2	5127.3	5548.3	6938.0	8760.3	10625.6	11258.2	11231.5	9611.5	9192.9	6143.7
55°	2431.7	2402.6	2875.9	3915.5	6058.8	8594.0	9660.4	9962.7	9241.7	8774.2	5763.4
57.5°	708.2	722.2	932.7	1528.1	3030.6	5492.5	6615.8	7178.7	7585.7	7213.6	4470.3
60°	317.5	318.6	354.7	465.2	1009.4	2554.9	3420.1	4116.7	4535.4	4202.8	2217.7
62.5°	230.3	231.4	245.4	262.8	343.1	865.2	1282.7	1709.5	1740.9	1139.7	561.7
65°	191.9	191.9	194.2	194.2	205.8	309.3	389.6	502.4	423.3	314.0	219.8
67.5°	154.7	155.8	158.2	158.2	154.7	154.7	167.5	183.7	196.5	243.0	202.3
70°	120.9	119.8	119.8	120.9	117.5	100.0	108.2	123.3	134.9	189.6	175.6
72.5°	94.2	95.4	94.2	89.5	81.4	59.3	64.0	80.2	86.1	118.6	118.6
75°	70.9	72.1	67.4	51.2	33.7	18.6	24.4	39.5	50.0	58.1	43.0
77.5°	9.3	9.3	7.0	7.0	5.8	7.0	7.0	9.3	14.0	14.0	10.5
80°	1.2	1.2	1.2	2.3	3.5	4.7	4.7	4.7	4.7	5.8	5.8
82.5°	1.2	1.2	1.2	1.2	3.5	3.5	4.7	4.7	4.7	4.7	4.7
85°	0.0	0.0	0.0	1.2	2.3	3.5	3.5	4.7	4.7	4.7	4.7
87.5°	0.0	0.0	0.0	1.2	2.3	3.5	3.5	3.5	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633787

CATALOG NUMBER: GWS-SA2F-740-U-AFL-W-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6	3701.6
2.5°	3707.4	3639.9	3558.5	3502.7	3423.6	3371.3	3296.9	3246.9	3203.8	3170.1	3188.7
5°	3708.5	3601.6	3435.3	3293.4	3138.7	2996.8	2844.5	2724.7	2616.6	2567.7	2594.5
7.5°	3731.8	3578.3	3323.6	3071.3	2774.7	2481.7	2207.2	1983.9	1873.5	1821.1	1837.4
10°	3777.2	3567.8	3199.2	2780.5	2299.1	1899.0	1632.7	1481.6	1419.9	1387.4	1393.2
12.5°	3819.0	3560.9	3037.5	2397.9	1814.2	1473.4	1335.0	1314.1	1326.9	1328.1	1326.9
15°	3876.0	3548.1	2837.5	2004.9	1451.3	1273.4	1276.9	1307.1	1337.4	1346.7	1344.3
17.5°	3936.5	3528.3	2579.4	1628.1	1231.5	1215.2	1256.0	1296.7	1326.9	1331.5	1332.7
20°	3999.3	3487.6	2285.1	1329.2	1129.2	1171.1	1216.4	1246.6	1268.7	1275.7	1278.0
22.5°	4028.3	3401.5	1945.6	1115.2	1060.6	1116.4	1150.1	1189.7	1196.6	1171.1	1175.7
25°	4013.2	3256.2	1614.1	971.0	992.0	1047.8	1097.8	1078.0	1049.0	1030.3	1036.2
27.5°	3965.6	3063.1	1289.7	865.2	918.7	989.6	995.5	973.4	968.7	953.6	958.2
30°	3914.4	2841.0	1037.3	780.3	844.3	918.7	901.3	909.4	910.6	893.1	898.9
32.5°	3883.0	2608.4	825.7	723.3	796.6	810.6	845.4	861.7	862.9	822.2	829.2
35°	3893.4	2379.3	698.9	676.8	752.4	748.9	797.8	807.1	739.6	683.8	689.6
37.5°	3978.3	2167.7	626.8	640.8	675.7	702.4	739.6	678.0	662.9	637.3	640.8
40°	4136.5	1987.4	583.8	618.7	623.3	666.4	609.4	617.5	618.7	602.4	605.9
42.5°	4321.4	1837.4	558.2	605.9	594.3	601.2	544.2	560.5	578.0	571.0	572.2
45°	4414.4	1690.9	536.1	561.7	565.2	498.9	486.1	503.5	525.6	529.1	530.3
47.5°	4331.9	1551.3	512.8	497.7	521.0	454.7	439.6	445.4	471.0	484.9	487.3
50°	4079.5	1390.9	478.0	440.7	428.0	408.2	394.2	395.4	424.5	448.9	453.5
52.5°	3724.8	1223.4	421.0	373.3	344.2	359.3	362.8	355.9	382.6	407.0	411.7
55°	3380.6	1014.1	333.8	303.5	276.8	309.3	318.6	309.3	317.5	333.8	334.9
57.5°	2380.5	573.3	255.8	251.2	229.1	265.1	280.3	266.3	252.4	262.8	265.1
60°	1103.6	300.0	196.5	196.5	190.7	227.9	253.5	233.7	207.0	211.7	215.1
62.5°	345.4	189.6	144.2	136.1	155.8	194.2	215.1	195.4	164.0	164.0	168.6
65°	195.4	162.8	114.0	104.7	126.8	155.8	168.6	147.7	119.8	117.5	117.5
67.5°	181.4	154.7	101.2	84.9	89.5	100.0	104.7	90.7	82.6	81.4	82.6
70°	150.0	129.1	81.4	58.1	54.7	53.5	55.8	52.3	50.0	51.2	54.7
72.5°	93.0	77.9	51.2	34.9	30.2	29.1	29.1	29.1	27.9	27.9	27.9
75°	33.7	29.1	23.3	17.4	15.1	14.0	14.0	15.1	14.0	12.8	11.6
77.5°	10.5	9.3	9.3	9.3	8.1	7.0	5.8	5.8	4.7	3.5	3.5
80°	5.8	5.8	5.8	5.8	4.7	4.7	3.5	2.3	1.2	1.2	0.0
82.5°	5.8	5.8	5.8	4.7	4.7	4.7	3.5	2.3	1.2	0.0	0.0
85°	4.7	4.7	4.7	4.7	4.7	4.7	3.5	2.3	1.2	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	3.5	2.3	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)