

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: P633842

Luminaire Tested: GWS-SA2F-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633842  
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-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

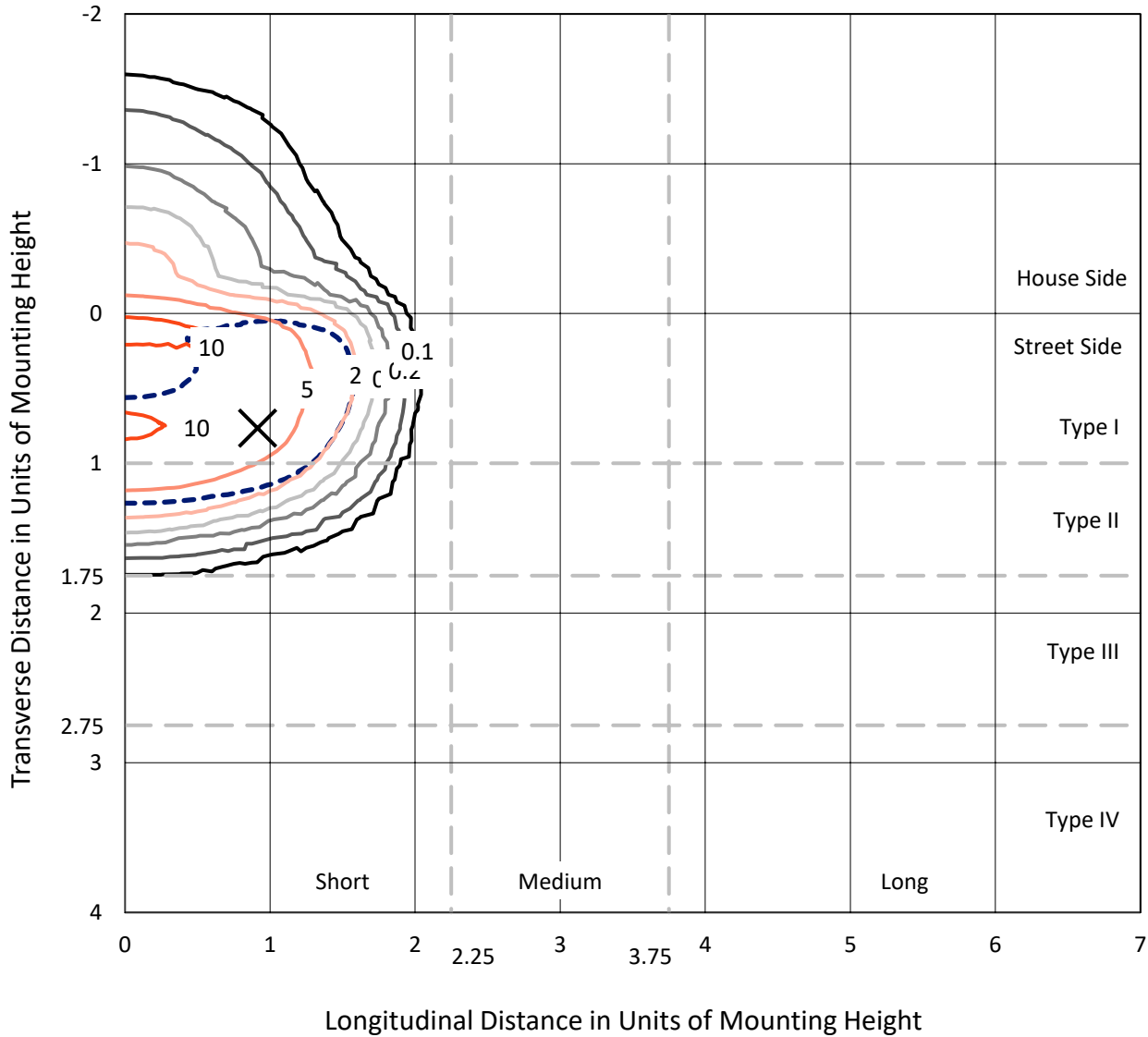
Lumens per Lamp: N/A  
Luminaire Lumens: 12498 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

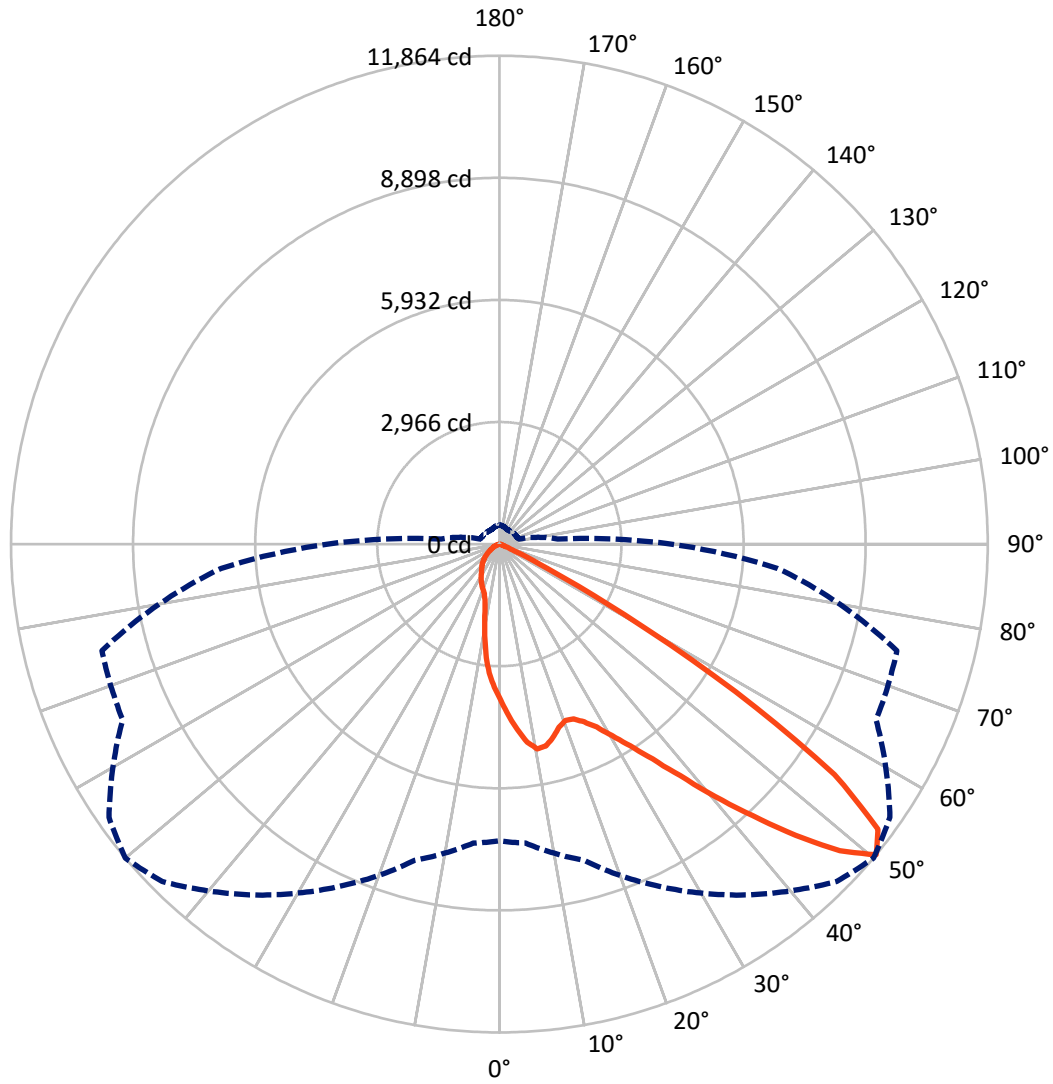
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.1 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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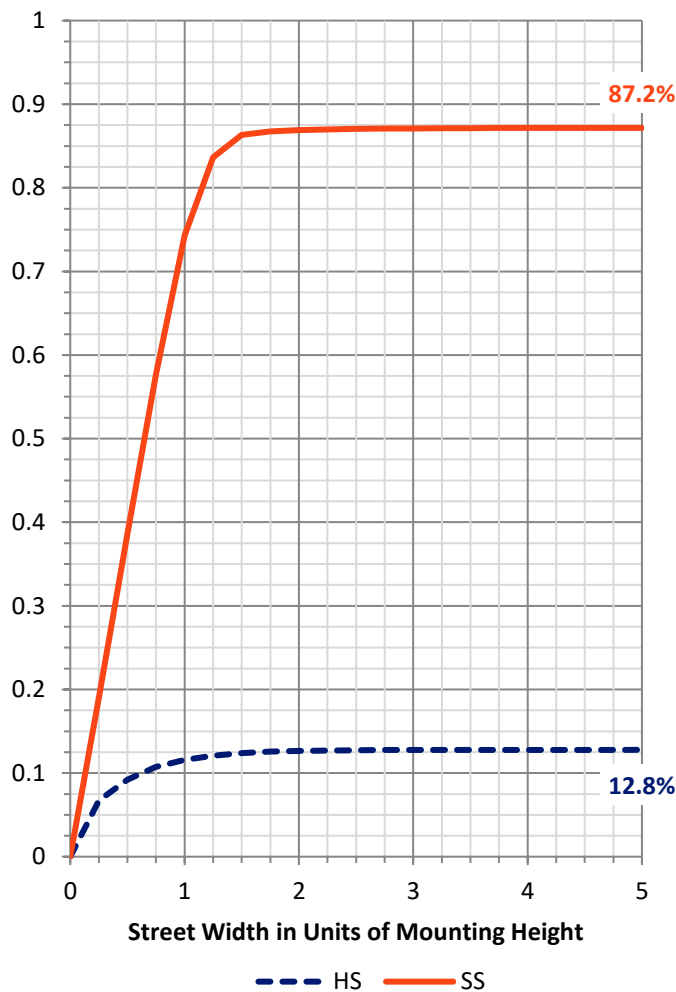
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1605.8	0.0	1605.8
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	10892.2	0.0	10892.2
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	12498.0	0.0	12498.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.2	2.8
10°-20°	906.2	7.3
20°-30°	1495.6	12.0
30°-40°	2468.1	19.7
40°-50°	3905.1	31.2
50°-60°	2956.6	23.7
60°-70°	370.0	3.0
70°-80°	41.9	0.3
80°-90°	3.2	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°	12498.0	100.0
0°-180°	12498.0	100.0

**Coefficient of Utilization**



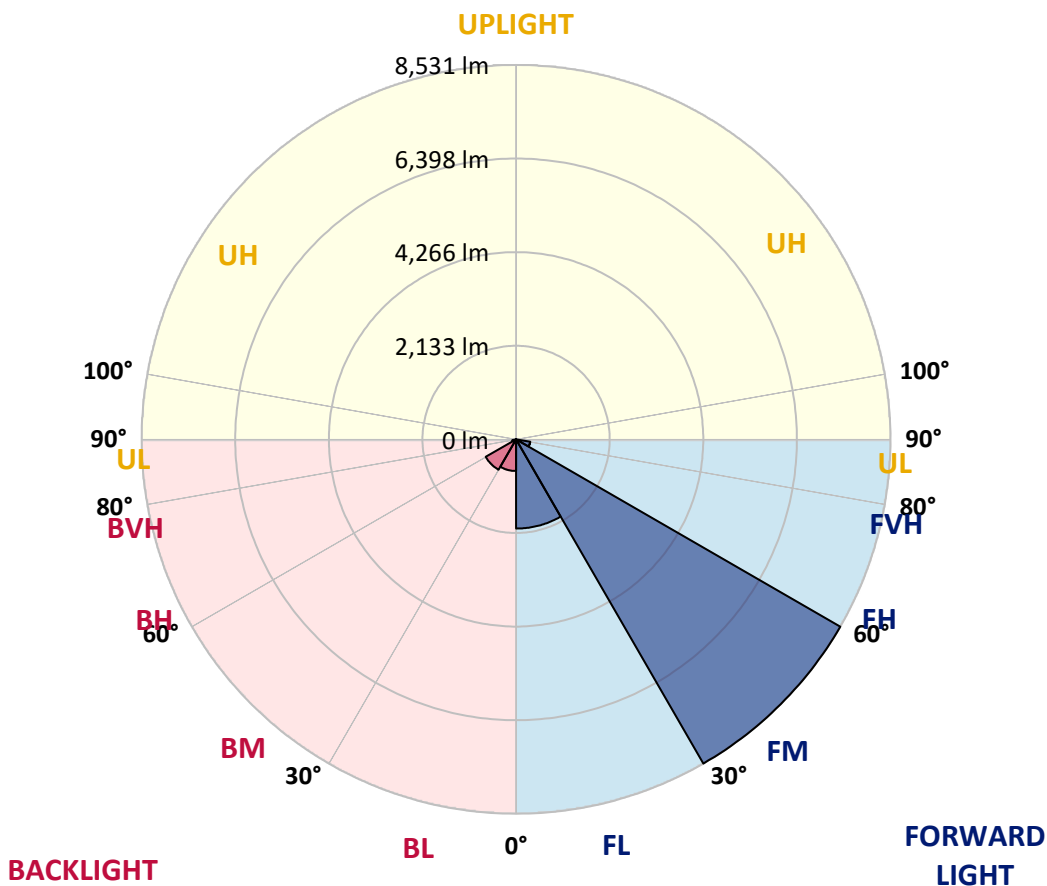
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2032.4	16.3			
FM (30°-60°)	8531.2	68.3			
FH (60°-80°)	327.2	2.6			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	720.8	5.8	B2/1000		
BM (30°-60°)	798.6	6.4	B1/1000		
BH (60°-80°)	84.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4
2.5°	4314.6	4349.1	4339.5	4294.3	4245.6	4211.1	4157.5	4140.9	4019.6	3935.1	3845.9
5°	4835.6	4846.3	4834.4	4779.7	4694.0	4612.0	4523.9	4472.8	4269.4	4086.2	3899.4
7.5°	4960.5	4947.4	4970.0	4997.4	4985.5	4949.8	4857.0	4801.1	4558.4	4259.8	3976.7
10°	4570.3	4540.6	4625.0	4766.6	4915.3	5083.0	5059.2	5064.0	4840.4	4478.7	4077.8
12.5°	4052.9	4041.0	4104.0	4268.2	4559.6	4940.3	5031.9	5185.3	5098.5	4715.5	4193.2
15°	3825.7	3831.6	3869.7	3973.2	4182.5	4656.0	4876.0	5153.2	5329.3	4945.0	4320.5
17.5°	3860.2	3881.6	3880.4	3914.9	4042.2	4421.6	4678.6	5052.1	5507.7	5209.1	4466.8
20°	4094.5	4115.9	4083.8	4057.6	4100.4	4362.1	4575.1	4949.8	5627.8	5475.6	4621.5
22.5°	4445.4	4470.4	4394.3	4319.3	4292.0	4459.7	4614.3	4908.2	5719.4	5719.4	4759.5
25°	4870.1	4904.6	4786.8	4653.6	4577.5	4665.5	4782.1	5002.1	5813.4	5938.3	4853.4
27.5°	5344.7	5345.9	5244.8	5094.9	4952.2	4962.9	5033.1	5213.9	5916.9	6173.9	4927.2
30°	5878.8	5882.4	5748.0	5568.4	5388.7	5340.0	5399.5	5536.3	6132.2	6470.1	5029.5
32.5°	6568.8	6585.5	6392.7	6128.7	5895.5	5803.9	5838.4	5982.3	6474.8	6841.2	5183.0
35°	7501.4	7519.3	7235.0	6886.4	6515.3	6377.3	6411.8	6556.9	6970.9	7368.2	5428.0
37.5°	8422.1	8445.9	8158.1	7833.3	7324.2	7095.8	7131.5	7269.5	7715.5	8096.2	5820.6
40°	9058.6	9090.7	9001.5	8782.6	8310.3	8010.6	8053.4	8103.3	8535.2	8967.0	6329.7
42.5°	9394.0	9439.2	9477.3	9589.1	9340.5	9089.5	9016.9	9020.5	9369.0	9854.4	6859.1
45°	9414.2	9458.3	9653.3	10085.2	10274.3	10222.0	10089.9	10000.7	10005.5	10445.6	7189.8
47.5°	8760.0	8842.1	9207.3	10053.0	10764.4	11198.6	11132.0	10920.2	10273.1	10484.9	7154.1
50°	7210.0	7290.9	7954.6	9171.6	10407.5	11588.8	11863.6	11579.3	10098.2	9995.9	6786.5
52.5°	5236.5	5244.8	5675.4	7097.0	8961.0	10869.1	11516.2	11488.9	9831.8	9403.5	6284.5
55°	2487.4	2457.6	2941.8	4005.3	6197.7	8790.9	9881.7	10191.0	9453.5	8975.3	5895.5
57.5°	724.4	738.7	954.0	1563.1	3100.0	5618.3	6767.5	7343.2	7759.6	7378.9	4572.7
60°	324.8	325.9	362.8	475.8	1032.5	2613.5	3498.5	4211.1	4639.3	4299.1	2268.5
62.5°	235.5	236.7	251.0	268.8	350.9	885.0	1312.1	1748.7	1780.8	1165.8	574.6
65°	196.3	196.3	198.7	198.7	210.6	316.4	398.5	513.9	433.0	321.2	224.8
67.5°	158.2	159.4	161.8	161.8	158.2	158.2	171.3	188.0	201.0	248.6	207.0
70°	123.7	122.5	122.5	123.7	120.1	102.3	110.6	126.1	138.0	193.9	179.6
72.5°	96.4	97.5	96.4	91.6	83.3	60.7	65.4	82.1	88.0	121.3	121.3
75°	72.6	73.8	69.0	52.3	34.5	19.0	25.0	40.4	51.2	59.5	44.0
77.5°	9.5	9.5	7.1	7.1	5.9	7.1	7.1	9.5	14.3	14.3	10.7
80°	1.2	1.2	1.2	2.4	3.6	4.8	4.8	4.8	4.8	5.9	5.9
82.5°	1.2	1.2	1.2	1.2	3.6	3.6	4.8	4.8	4.8	4.8	4.8
85°	0.0	0.0	0.0	1.2	2.4	3.6	3.6	4.8	4.8	4.8	4.8
87.5°	0.0	0.0	0.0	1.2	2.4	3.6	3.6	3.6	4.8	4.8	4.8
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°	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4	3786.4
2.5°	3792.3	3723.3	3640.1	3583.0	3502.1	3448.6	3372.4	3321.3	3277.3	3242.8	3261.8
5°	3793.5	3684.1	3514.0	3368.9	3210.6	3065.5	2909.7	2787.2	2676.5	2626.6	2653.9
7.5°	3817.3	3660.3	3399.8	3141.7	2838.3	2538.5	2257.8	2029.4	1916.4	1862.9	1879.5
10°	3863.7	3649.6	3272.5	2844.3	2351.8	1942.6	1670.2	1515.5	1452.5	1419.2	1425.1
12.5°	3906.5	3642.5	3107.2	2452.9	1855.7	1507.2	1365.6	1344.2	1357.3	1358.5	1357.3
15°	3964.8	3629.4	2902.5	2050.8	1484.6	1302.6	1306.1	1337.1	1368.0	1377.5	1375.1
17.5°	4026.7	3609.2	2638.5	1665.4	1259.8	1243.1	1284.7	1326.4	1357.3	1362.1	1363.2
20°	4090.9	3567.5	2337.5	1359.7	1155.1	1197.9	1244.3	1275.2	1297.8	1305.0	1307.3
22.5°	4120.7	3479.5	1990.1	1140.8	1084.9	1142.0	1176.5	1216.9	1224.1	1197.9	1202.7
25°	4105.2	3330.8	1651.1	993.3	1014.7	1071.8	1123.0	1102.7	1073.0	1054.0	1059.9
27.5°	4056.4	3133.3	1319.2	885.0	939.8	1012.3	1018.3	995.7	990.9	975.4	980.2
30°	4004.1	2906.1	1061.1	798.2	863.6	939.8	921.9	930.2	931.4	913.6	919.5
32.5°	3972.0	2668.2	844.6	739.9	814.9	829.1	864.8	881.5	882.7	841.0	848.2
35°	3982.7	2433.9	714.9	692.3	769.7	766.1	816.0	825.6	756.6	699.5	705.4
37.5°	4069.5	2217.4	641.2	655.5	691.1	718.5	756.6	693.5	678.1	651.9	655.5
40°	4231.3	2033.0	597.2	632.9	637.6	681.6	623.3	631.7	632.9	616.2	619.8
42.5°	4420.4	1879.5	571.0	619.8	607.9	615.0	556.7	573.4	591.2	584.1	585.3
45°	4515.6	1729.6	548.4	574.6	578.1	510.3	497.2	515.1	537.7	541.3	542.4
47.5°	4431.1	1586.9	524.6	509.1	532.9	465.1	449.7	455.6	481.8	496.1	498.4
50°	4173.0	1422.7	488.9	450.8	437.8	417.5	403.3	404.5	434.2	459.2	463.9
52.5°	3810.2	1251.4	430.6	381.9	352.1	367.6	371.1	364.0	391.4	416.3	421.1
55°	3458.1	1037.3	341.4	310.5	283.1	316.4	325.9	316.4	324.8	341.4	342.6
57.5°	2435.0	586.5	261.7	256.9	234.3	271.2	286.7	272.4	258.1	268.8	271.2
60°	1128.9	306.9	201.0	201.0	195.1	233.2	259.3	239.1	211.7	216.5	220.1
62.5°	353.3	193.9	147.5	139.2	159.4	198.7	220.1	199.8	167.7	167.7	172.5
65°	199.8	166.5	116.6	107.1	129.7	159.4	172.5	151.1	122.5	120.1	120.1
67.5°	185.6	158.2	103.5	86.8	91.6	102.3	107.1	92.8	84.5	83.3	84.5
70°	153.5	132.0	83.3	59.5	55.9	54.7	57.1	53.5	51.2	52.3	55.9
72.5°	95.2	79.7	52.3	35.7	30.9	29.7	29.7	29.7	28.5	28.5	28.5
75°	34.5	29.7	23.8	17.8	15.5	14.3	14.3	15.5	14.3	13.1	11.9
77.5°	10.7	9.5	9.5	9.5	8.3	7.1	5.9	5.9	4.8	3.6	3.6
80°	5.9	5.9	5.9	5.9	4.8	4.8	3.6	2.4	1.2	1.2	0.0
82.5°	5.9	5.9	5.9	4.8	4.8	4.8	3.6	2.4	1.2	0.0	0.0
85°	4.8	4.8	4.8	4.8	4.8	4.8	3.6	2.4	1.2	0.0	0.0
87.5°	4.8	4.8	4.8	4.8	4.8	4.8	3.6	2.4	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)