

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: P636374

Luminaire Tested: GWS-SA3F-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636374  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3F-760-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

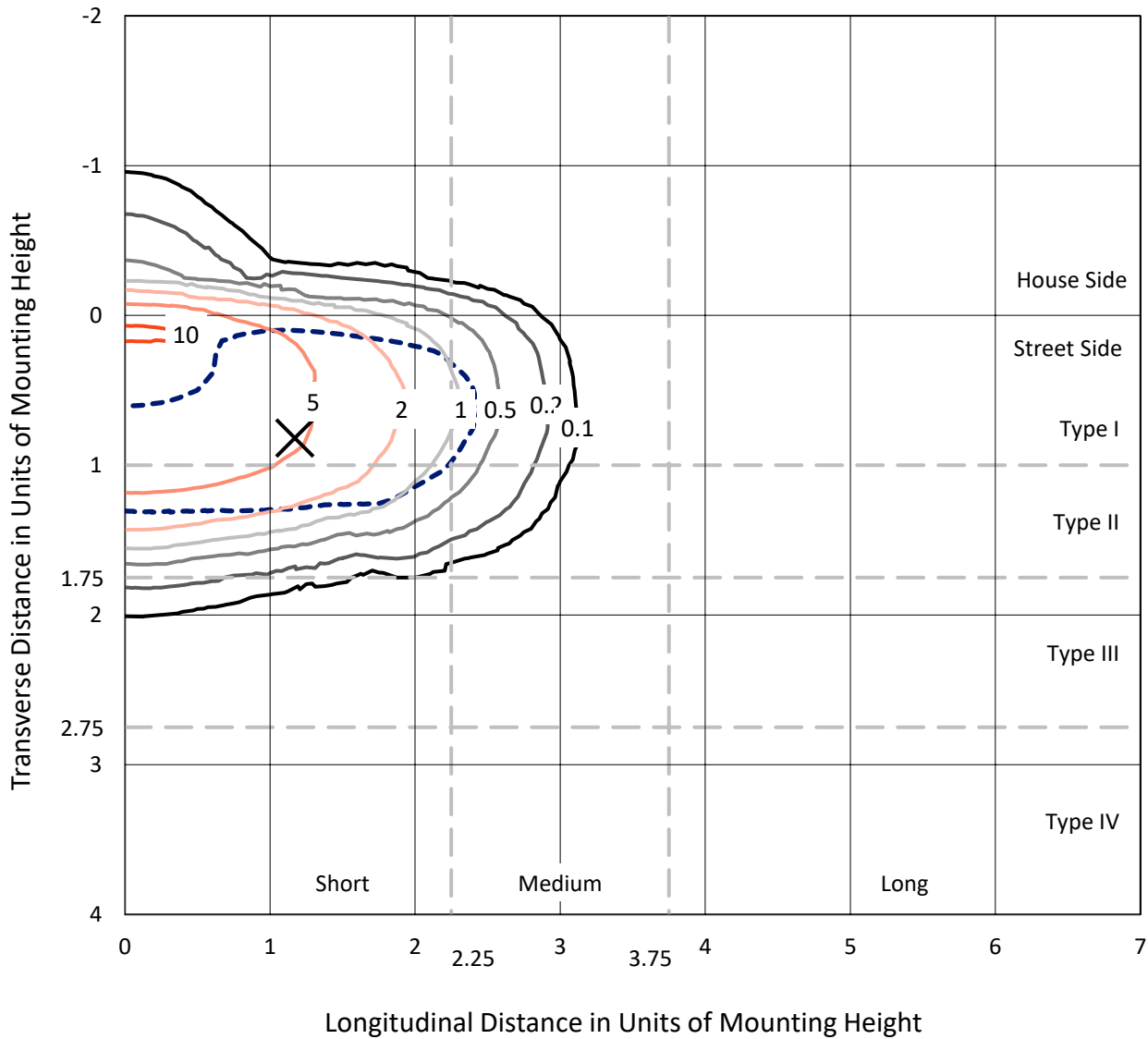
Lumens per Lamp: N/A  
Luminaire Lumens: 20686.6 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

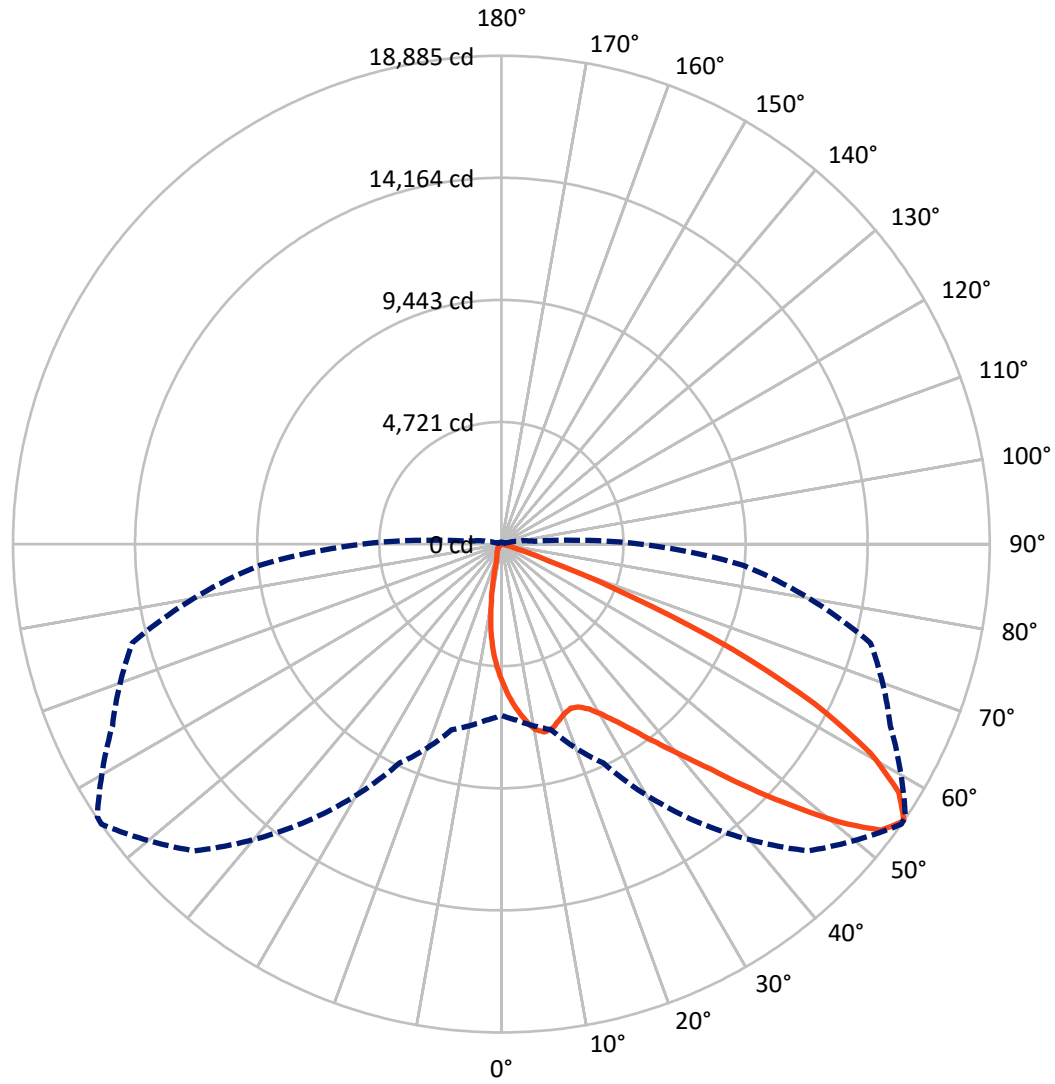
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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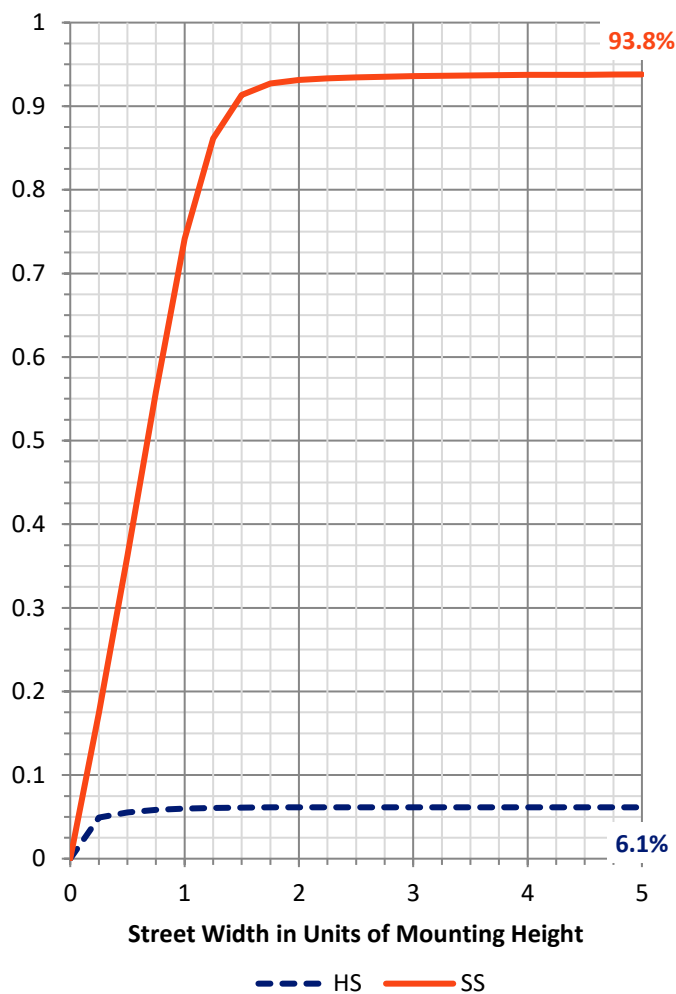
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1276.5	0.0	1276.5
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	19410.1	0.0	19410.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20686.6	0.0	20686.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.3	2.3
10°-20°	1138.7	5.5
20°-30°	1896.3	9.2
30°-40°	3231.4	15.6
40°-50°	5274.8	25.5
50°-60°	5522.5	26.7
60°-70°	2785.4	13.5
70°-80°	351.8	1.7
80°-90°	13.4	0.1
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°	20686.6	100.0
0°-180°	20686.6	100.0

**Coefficient of Utilization**



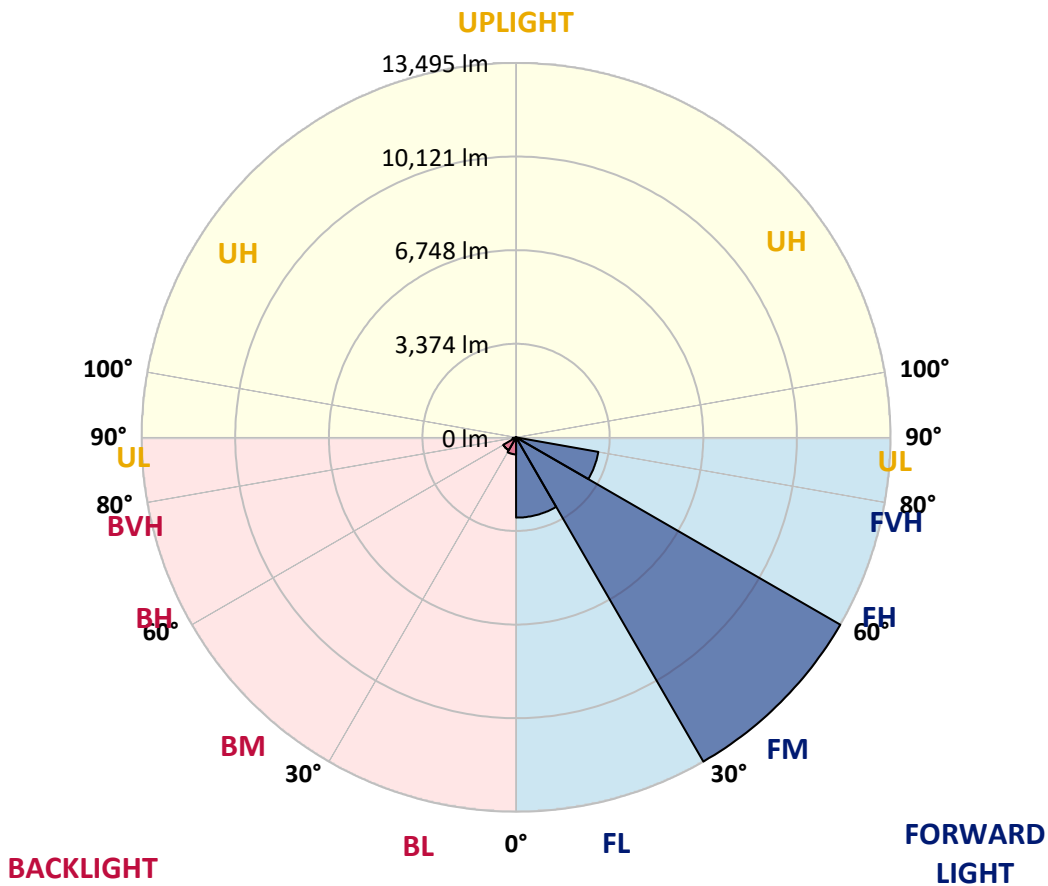
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2893.8	14.0			
FM (30°-60°)	13495.0	65.2			
FH (60°-80°)	3009.2	14.5			G2/5000
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	613.5	3.0	B2/1000		
BM (30°-60°)	533.7	2.6	B1/1000		
BH (60°-80°)	128.0	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2
2.5°	6230.2	6200.1	6246.1	6193.1	6102.9	6026.8	5927.8	5892.4	5733.3	5582.9	5437.9
5°	6987.1	6995.9	6981.8	6907.5	6780.2	6638.7	6438.9	6394.7	6117.0	5830.5	5521.0
7.5°	7174.5	7169.2	7199.3	7227.6	7206.4	7135.6	6918.1	6873.9	6529.1	6099.3	5648.4
10°	6596.3	6599.8	6661.7	6852.7	7089.6	7335.5	7301.9	7277.1	6939.3	6403.5	5789.9
12.5°	5779.2	5811.1	5876.5	6148.8	6550.3	7109.1	7455.7	7480.5	7316.0	6737.7	5956.1
15°	5425.6	5432.6	5485.7	5650.1	5949.0	6638.7	7390.3	7459.3	7630.8	7073.7	6136.5
17.5°	5416.7	5425.6	5448.5	5521.0	5715.6	6269.1	7179.8	7300.1	7867.8	7434.5	6352.2
20°	5749.2	5743.9	5728.0	5689.1	5773.9	6147.1	6985.3	7117.9	7996.9	7786.4	6569.7
22.5°	6352.2	6345.1	6274.4	6113.5	6044.5	6258.5	6889.8	7010.1	8074.7	8099.4	6748.3
25°	7047.2	7096.7	6964.1	6720.0	6550.3	6543.2	6974.7	7059.6	8141.9	8377.1	6870.4
27.5°	7809.4	7825.3	7712.1	7438.0	7192.2	6999.5	7220.5	7284.2	8216.1	8624.6	6939.3
30°	8645.9	8640.6	8511.5	8193.2	7894.3	7616.6	7634.3	7659.1	8389.4	8907.6	7015.4
32.5°	9691.0	9714.0	9484.1	9050.8	8691.9	8308.1	8175.5	8179.0	8702.5	9271.9	7130.3
35°	11111.1	11054.5	10750.3	10133.1	9521.2	9107.4	8881.1	8861.6	9185.2	9761.8	7330.2
37.5°	12463.9	12469.2	12150.9	11471.8	10699.0	10046.5	9726.4	9673.3	9864.3	10440.8	7662.6
40°	13403.0	13420.6	13288.0	12932.6	12113.8	11190.6	10720.2	10665.4	10745.0	11300.3	8097.7
42.5°	13899.9	13949.4	13986.5	14069.7	13448.9	12619.5	11896.3	11890.9	11807.8	12280.0	8601.7
45°	13919.3	13993.6	14220.0	14787.6	14858.4	14250.0	13463.1	13344.6	13024.5	13328.7	9052.6
47.5°	13150.1	13321.6	13802.6	14927.3	15670.1	15871.7	15091.8	15019.3	14120.9	14158.1	9390.4
50°	11356.9	11535.5	12421.5	14211.1	15875.2	17159.1	16879.7	16729.4	15037.0	14706.3	9553.1
52.5°	9517.7	9680.4	10281.7	12506.4	15024.6	17564.1	18386.4	18207.8	15859.3	14897.3	9485.9
55°	6622.8	6840.3	7427.4	9347.9	13065.2	16775.4	18885.1	18848.0	16593.2	14777.0	9381.5
57.5°	3246.8	3462.6	4047.9	5763.3	9678.6	14646.2	18122.9	18319.2	17031.8	14647.9	9296.7
60°	1356.4	1444.8	1646.4	2528.9	5414.9	11068.6	16402.2	16674.6	16763.0	14472.9	9287.8
62.5°	787.0	801.1	822.3	1048.7	2106.2	6345.1	13606.3	13993.6	15350.0	14241.2	9148.1
65°	594.2	599.5	590.7	643.7	870.1	2406.8	9830.7	10357.7	12812.3	13335.8	8596.4
67.5°	488.1	488.1	465.1	475.7	546.4	901.9	5427.3	6163.0	9480.6	10960.8	7098.5
70°	389.1	397.9	387.3	373.1	390.8	498.7	1931.1	2394.5	5521.0	6472.5	4139.9
72.5°	295.3	295.3	313.0	302.4	290.0	313.0	673.8	756.9	2215.8	2698.6	1494.3
75°	228.1	235.2	247.6	237.0	219.3	185.7	323.6	343.1	668.5	627.8	334.2
77.5°	116.7	118.5	157.4	173.3	162.7	113.2	141.5	155.6	217.5	194.5	123.8
80°	70.7	74.3	88.4	136.2	107.9	60.1	58.4	61.9	102.6	88.4	51.3
82.5°	30.1	31.8	49.5	49.5	44.2	23.0	23.0	23.0	49.5	46.0	21.2
85°	0.0	0.0	8.8	7.1	7.1	8.8	8.8	8.8	12.4	17.7	10.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.3	5.3
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°	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2	5344.2
2.5°	5344.2	5231.0	5078.9	4941.0	4755.3	4651.0	4506.0	4387.5	4286.7	4254.9	4240.7
5°	5346.0	5151.4	4826.1	4500.7	4101.0	3786.2	3462.6	3206.2	2995.7	2928.5	2910.8
7.5°	5381.3	5094.9	4567.9	3977.2	3308.7	2757.0	2263.6	1821.5	1616.3	1547.4	1533.2
10°	5429.1	5047.1	4269.0	3349.4	2389.2	1680.0	1190.2	907.2	772.8	698.5	709.1
12.5°	5491.0	5008.2	3938.3	2670.3	1581.0	923.1	654.3	548.2	519.9	505.8	498.7
15°	5574.1	4962.2	3528.0	1996.6	969.1	594.2	504.0	475.7	465.1	458.0	456.3
17.5°	5659.0	4909.2	3110.7	1404.1	643.7	493.4	452.7	438.6	431.5	426.2	424.4
20°	5749.2	4819.0	2620.8	967.3	507.5	443.9	417.4	401.4	392.6	383.8	382.0
22.5°	5788.1	4674.0	2152.2	677.3	451.0	408.5	374.9	355.5	344.8	337.8	337.8
25°	5750.9	4438.8	1667.6	514.6	410.3	369.6	336.0	314.8	305.9	298.9	298.9
27.5°	5651.9	4136.4	1216.7	426.2	366.1	328.9	297.1	277.6	270.6	267.0	267.0
30°	5542.3	3754.4	857.7	366.1	316.5	286.5	260.0	247.6	245.8	242.3	242.3
32.5°	5448.5	3397.2	590.7	321.9	279.4	249.3	231.7	226.4	228.1	224.6	226.4
35°	5397.3	3047.0	438.6	286.5	249.3	221.1	212.2	212.2	212.2	210.4	210.4
37.5°	5418.5	2702.2	357.2	261.7	222.8	201.6	192.8	196.3	199.8	199.8	199.8
40°	5524.6	2396.2	316.5	238.7	199.8	183.9	176.8	182.1	187.5	191.0	191.0
42.5°	5659.0	2148.6	286.5	219.3	183.9	166.2	162.7	168.0	173.3	176.8	176.8
45°	5743.9	1899.3	256.4	194.5	168.0	146.8	146.8	153.9	152.1	153.9	153.9
47.5°	5782.8	1701.2	226.4	168.0	143.2	127.3	129.1	132.6	129.1	132.6	132.6
50°	5687.3	1501.4	199.8	139.7	118.5	111.4	114.9	113.2	113.2	120.3	120.3
52.5°	5512.2	1352.9	176.8	118.5	100.8	99.0	102.6	95.5	97.3	97.3	95.5
55°	5383.1	1268.0	157.4	102.6	86.7	88.4	86.7	74.3	67.2	60.1	58.4
57.5°	5319.4	1234.4	143.2	92.0	77.8	77.8	70.7	51.3	38.9	30.1	26.5
60°	5305.3	1193.7	129.1	79.6	69.0	65.4	51.3	30.1	19.5	14.1	12.4
62.5°	5170.9	1094.7	116.7	63.7	60.1	53.1	31.8	17.7	10.6	7.1	5.3
65°	4730.6	900.1	104.3	49.5	46.0	38.9	19.5	10.6	5.3	1.8	0.0
67.5°	3763.2	638.4	92.0	37.1	31.8	24.8	12.4	7.1	1.8	0.0	0.0
70°	2169.9	344.8	76.0	26.5	21.2	15.9	8.8	3.5	0.0	0.0	0.0
72.5°	725.1	160.9	58.4	17.7	15.9	12.4	5.3	1.8	0.0	0.0	0.0
75°	159.2	95.5	38.9	12.4	10.6	8.8	3.5	0.0	0.0	0.0	0.0
77.5°	60.1	67.2	19.5	8.8	7.1	5.3	1.8	0.0	0.0	0.0	0.0
80°	23.0	44.2	8.8	5.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	12.4	17.7	5.3	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.1	8.8	3.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.8	1.8	1.8	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)