

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: P641269

Luminaire Tested: GWS-SA5F-750-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641269  
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-SA5F-750-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

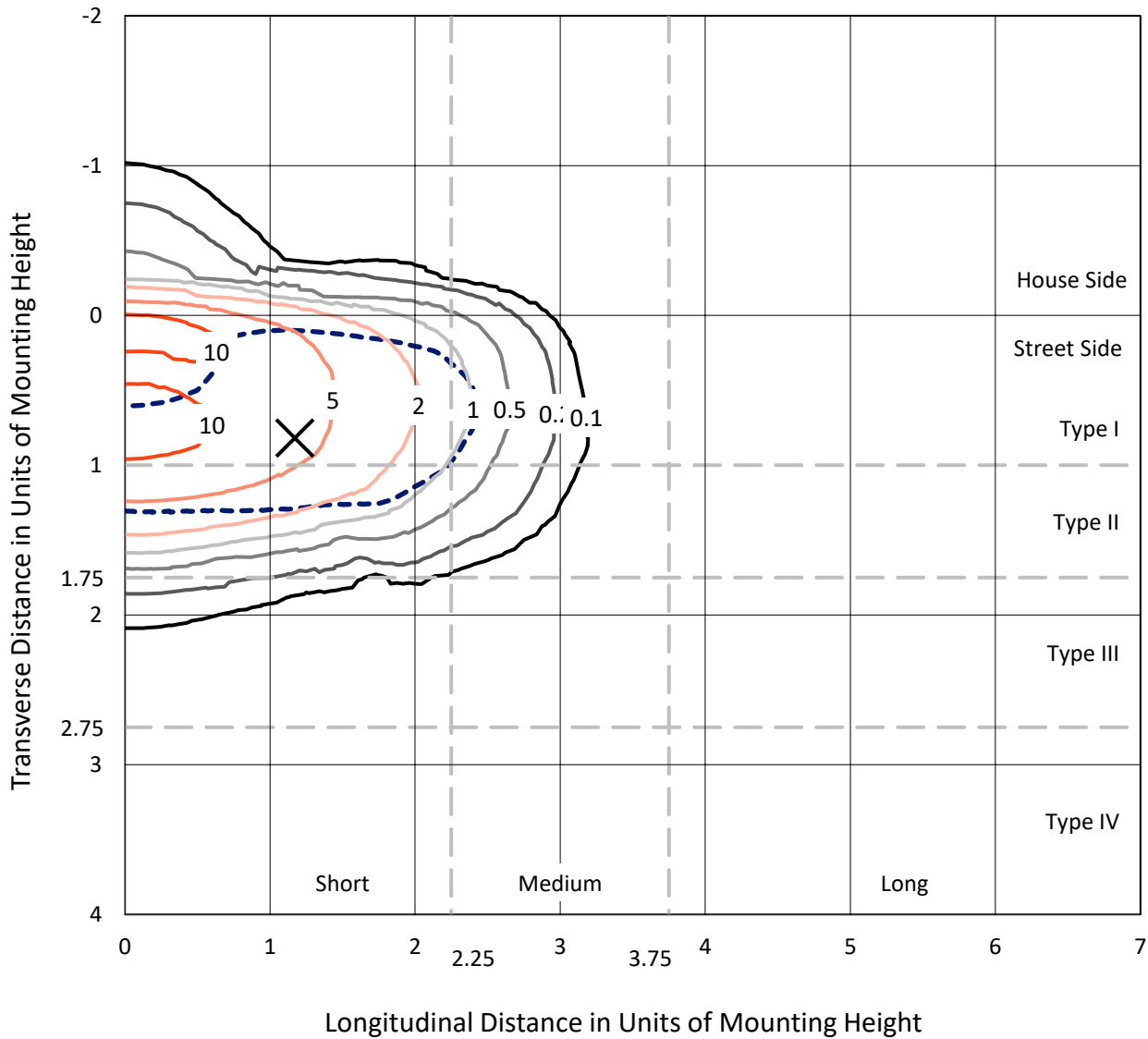
Lumens per Lamp: N/A  
Luminaire Lumens: 35803.7 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

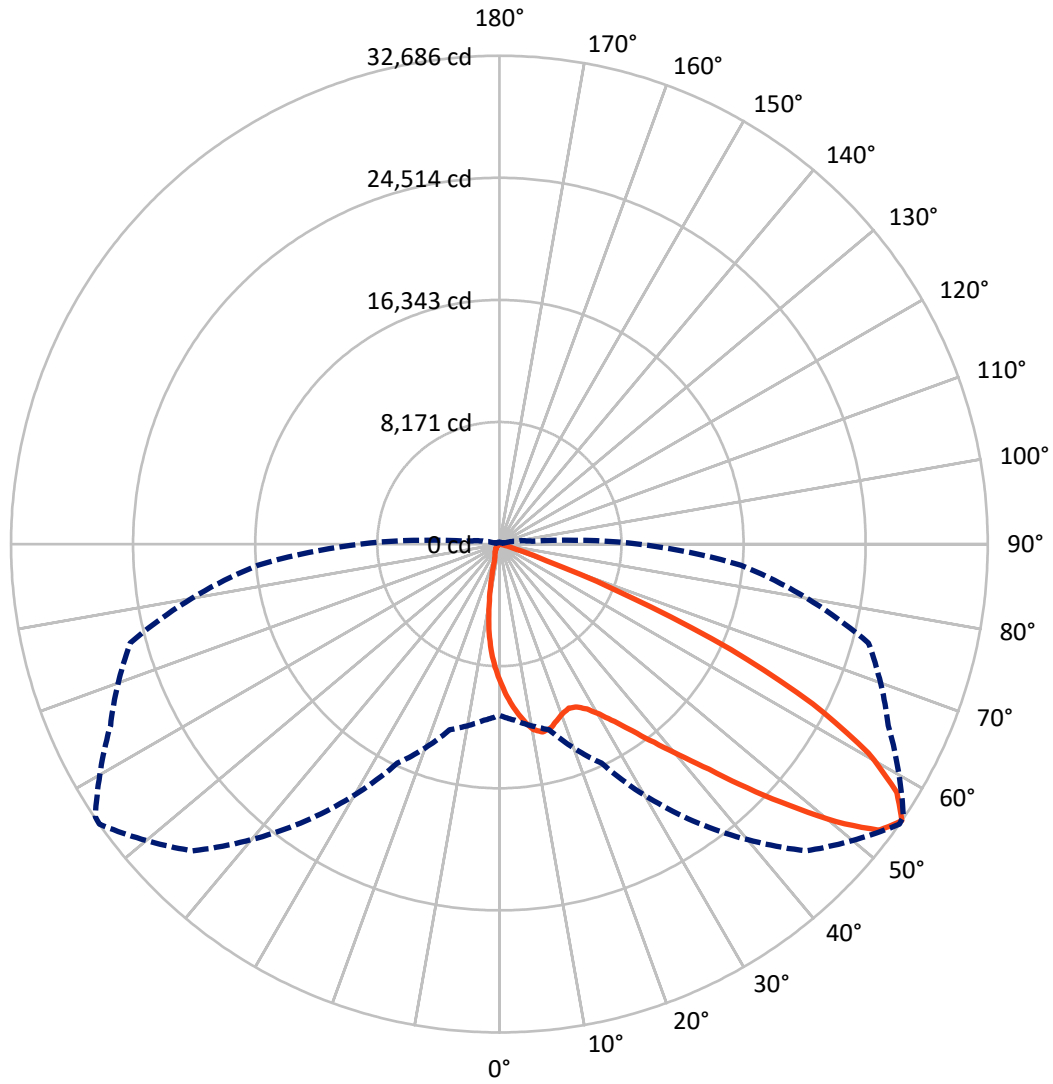
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.5 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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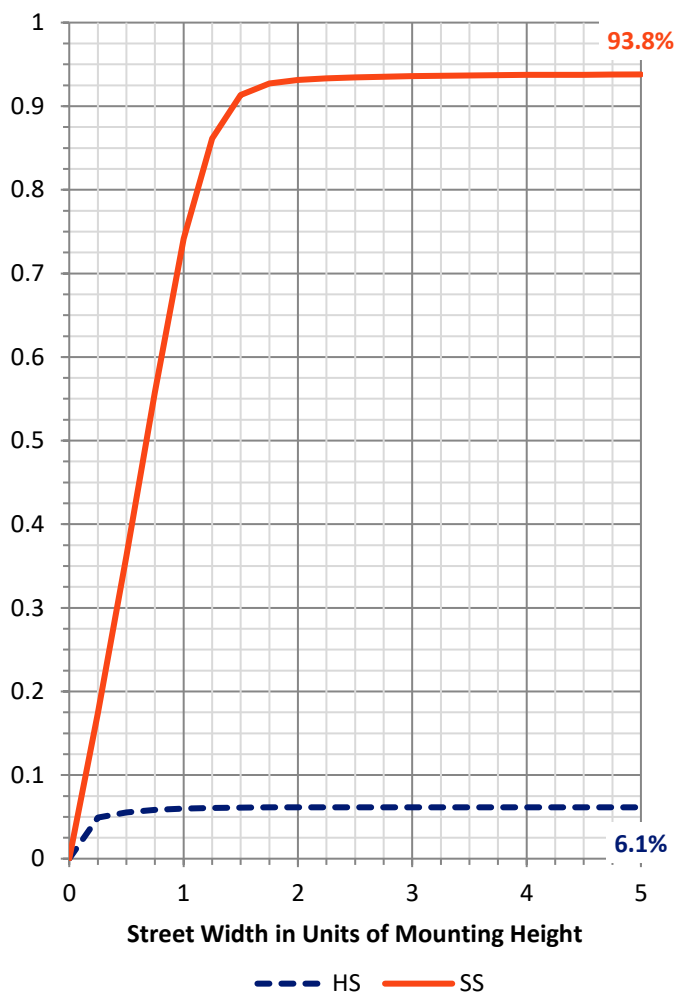
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2209.2	0.0	2209.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	33594.5	0.0	33594.5
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	35803.7	0.0	35803.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	817.4	2.3
10°-20°	1970.8	5.5
20°-30°	3282.1	9.2
30°-40°	5592.8	15.6
40°-50°	9129.5	25.5
50°-60°	9558.1	26.7
60°-70°	4820.9	13.5
70°-80°	608.9	1.7
80°-90°	23.1	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°	35803.7	100.0
0°-180°	35803.7	100.0

**Coefficient of Utilization**



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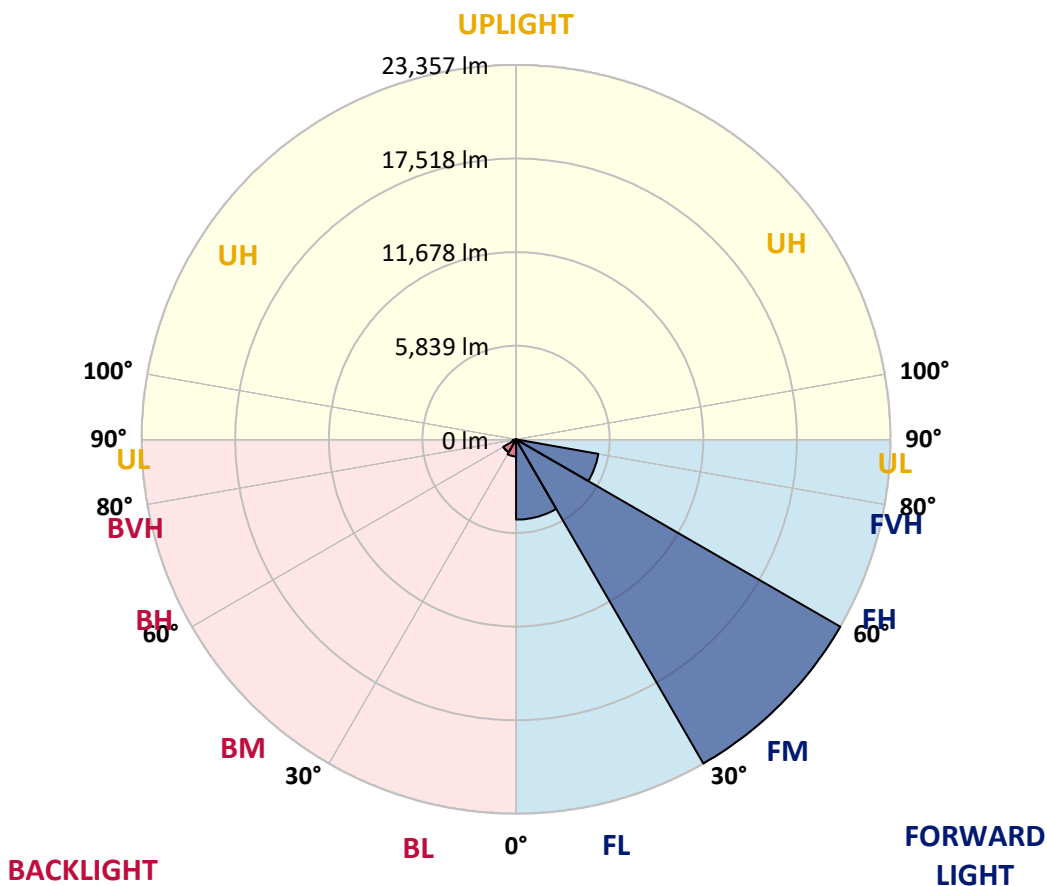
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5008.4	14.0			
FM (30°-60°)	23356.7	65.2			
FH (60°-80°)	5208.3	14.5			G3/7500
FVH (80°-90°)	21.0	0.1			G1/100
BL (0°-30°)	1061.8	3.0	B3/2500		
BM (30°-60°)	923.7	2.6	B1/1000		
BH (60°-80°)	221.6	0.6	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6
2.5°	10783.0	10731.0	10810.6	10718.7	10562.6	10431.0	10259.6	10198.4	9922.9	9662.8	9411.8
5°	12093.0	12108.3	12083.8	11955.3	11734.9	11490.0	11144.2	11067.7	10587.1	10091.3	9555.7
7.5°	12417.5	12408.3	12460.3	12509.3	12472.5	12350.1	11973.6	11897.1	11300.3	10556.5	9776.0
10°	11416.6	11422.7	11529.8	11860.4	12270.5	12696.0	12637.8	12595.0	12010.4	11083.0	10020.9
12.5°	10002.5	10057.6	10170.9	10642.2	11337.0	12304.2	12904.1	12947.0	12662.3	11661.4	10308.6
15°	9390.4	9402.6	9494.4	9779.1	10296.4	11490.0	12790.9	12910.2	13207.1	12243.0	10620.8
17.5°	9375.1	9390.4	9430.2	9555.7	9892.3	10850.3	12426.6	12634.8	13617.3	12867.4	10994.2
20°	9950.5	9941.3	9913.8	9846.4	9993.3	10639.2	12090.0	12319.5	13840.7	13476.5	11370.7
22.5°	10994.2	10982.0	10859.5	10581.0	10461.6	10832.0	11924.7	12132.8	13975.4	14018.2	11679.8
25°	12197.1	12282.8	12053.2	11630.8	11337.0	11324.8	12071.6	12218.5	14091.7	14498.8	11891.0
27.5°	13516.3	13543.8	13347.9	12873.5	12448.1	12114.4	12497.0	12607.2	14220.2	14927.3	12010.4
30°	14964.0	14954.8	14731.4	14180.4	13663.2	13182.6	13213.2	13256.1	14520.2	15417.0	12142.0
32.5°	16772.9	16812.7	16414.8	15664.9	15043.6	14379.4	14149.8	14156.0	15061.9	16047.5	12340.9
35°	19230.7	19132.7	18606.3	17538.1	16479.1	15762.8	15371.1	15337.4	15897.5	16895.3	12686.8
37.5°	21572.1	21581.3	21030.4	19855.1	18517.5	17388.1	16834.1	16742.3	17072.8	18070.7	13262.2
40°	23197.4	23228.0	22998.5	22383.2	20966.1	19368.4	18554.3	18459.4	18597.1	19558.2	14015.2
42.5°	24057.5	24143.2	24207.5	24351.3	23277.0	21841.5	20589.6	20580.5	20436.6	21253.8	14887.5
45°	24091.1	24219.7	24611.5	25594.0	25716.4	24663.5	23301.5	23096.4	22542.4	23068.9	15668.0
47.5°	22759.7	23056.6	23889.1	25835.8	27121.3	27470.2	26120.4	25994.9	24440.1	24504.3	16252.6
50°	19656.1	19965.3	21498.7	24596.2	27476.3	29698.4	29214.8	28954.7	26025.5	25453.2	16534.2
52.5°	16472.9	16754.5	17795.2	21645.6	26004.1	30399.3	31822.6	31513.5	27448.8	25783.7	16417.8
55°	11462.5	11839.0	12855.1	16179.1	22612.8	29034.3	32685.7	32621.4	28719.0	25575.6	16237.3
57.5°	5619.5	5992.9	7006.1	9975.0	16751.5	25349.1	31366.5	31706.3	29478.1	25352.2	16090.3
60°	2347.6	2500.6	2849.6	4376.9	9372.0	19157.2	28388.4	28859.8	29012.8	25049.2	16075.0
62.5°	1362.0	1386.5	1423.2	1815.0	3645.4	10982.0	23549.4	24219.7	26567.3	24648.2	15833.2
65°	1028.4	1037.6	1022.3	1114.1	1505.9	4165.7	17014.7	17926.8	22175.1	23081.1	14878.3
67.5°	844.8	844.8	805.0	823.3	945.8	1561.0	9393.4	10666.7	16408.7	18970.5	12285.8
70°	673.4	688.7	670.3	645.8	676.4	863.1	3342.3	4144.3	9555.7	11202.3	7165.2
72.5°	511.1	511.1	541.8	523.4	502.0	541.8	1166.1	1310.0	3835.1	4670.7	2586.3
75°	394.8	407.1	428.5	410.1	379.5	321.4	560.1	593.8	1157.0	1086.6	578.5
77.5°	202.0	205.1	272.4	300.0	281.6	195.9	244.9	269.3	376.5	336.7	214.3
80°	122.4	128.6	153.0	235.7	186.7	104.1	101.0	107.1	177.5	153.0	88.8
82.5°	52.0	55.1	85.7	85.7	76.5	39.8	39.8	39.8	85.7	79.6	36.7
85°	0.0	0.0	15.3	12.2	12.2	15.3	15.3	15.3	21.4	30.6	18.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.2	9.2
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°	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6	9249.6
2.5°	9249.6	9053.7	8790.5	8551.7	8230.4	8049.8	7798.8	7593.7	7419.3	7364.2	7339.7
5°	9252.6	8916.0	8352.8	7789.6	7097.9	6553.1	5992.9	5549.1	5184.9	5068.6	5038.0
7.5°	9313.9	8818.0	7905.9	6883.6	5726.7	4771.7	3917.8	3152.6	2797.5	2678.2	2653.7
10°	9396.5	8735.4	7388.6	5797.1	4135.1	2907.7	2059.9	1570.2	1337.5	1209.0	1227.4
12.5°	9503.6	8668.0	6816.3	4621.7	2736.3	1597.7	1132.5	948.8	899.9	875.4	863.1
15°	9647.5	8588.5	6106.2	3455.6	1677.3	1028.4	872.3	823.3	805.0	792.7	789.7
17.5°	9794.4	8496.6	5383.9	2430.2	1114.1	853.9	783.6	759.1	746.8	737.6	734.6
20°	9950.5	8340.5	4536.0	1674.2	878.4	768.2	722.3	694.8	679.5	664.2	661.1
22.5°	10017.8	8089.6	3724.9	1172.3	780.5	707.0	648.9	615.2	596.8	584.6	584.6
25°	9953.6	7682.5	2886.3	890.7	710.1	639.7	581.5	544.8	529.5	517.3	517.3
27.5°	9782.1	7159.1	2105.8	737.6	633.6	569.3	514.2	480.5	468.3	462.2	462.2
30°	9592.4	6498.0	1484.5	633.6	547.9	495.8	449.9	428.5	425.4	419.3	419.3
32.5°	9430.2	5879.7	1022.3	557.1	483.6	431.6	401.0	391.8	394.8	388.7	391.8
35°	9341.4	5273.7	759.1	495.8	431.6	382.6	367.3	367.3	367.3	364.2	364.2
37.5°	9378.1	4676.8	618.3	453.0	385.7	348.9	333.6	339.7	345.9	345.9	345.9
40°	9561.8	4147.3	547.9	413.2	345.9	318.3	306.1	315.3	324.4	330.6	330.6
42.5°	9794.4	3718.8	495.8	379.5	318.3	287.7	281.6	290.8	300.0	306.1	306.1
45°	9941.3	3287.2	443.8	336.7	290.8	254.0	254.0	266.3	263.2	266.3	266.3
47.5°	10008.6	2944.4	391.8	290.8	247.9	220.4	223.4	229.6	223.4	229.6	229.6
50°	9843.4	2598.6	345.9	241.8	205.1	192.8	198.9	195.9	195.9	208.1	208.1
52.5°	9540.4	2341.5	306.1	205.1	174.5	171.4	177.5	165.3	168.3	168.3	165.3
55°	9316.9	2194.6	272.4	177.5	150.0	153.0	150.0	128.6	116.3	104.1	101.0
57.5°	9206.7	2136.4	247.9	159.2	134.7	134.7	122.4	88.8	67.3	52.0	45.9
60°	9182.2	2066.0	223.4	137.7	119.4	113.2	88.8	52.0	33.7	24.5	21.4
62.5°	8949.6	1894.6	202.0	110.2	104.1	91.8	55.1	30.6	18.4	12.2	9.2
65°	8187.5	1557.9	180.6	85.7	79.6	67.3	33.7	18.4	9.2	3.1	0.0
67.5°	6513.3	1104.9	159.2	64.3	55.1	42.9	21.4	12.2	3.1	0.0	0.0
70°	3755.5	596.8	131.6	45.9	36.7	27.5	15.3	6.1	0.0	0.0	0.0
72.5°	1254.9	278.5	101.0	30.6	27.5	21.4	9.2	3.1	0.0	0.0	0.0
75°	275.5	165.3	67.3	21.4	18.4	15.3	6.1	0.0	0.0	0.0	0.0
77.5°	104.1	116.3	33.7	15.3	12.2	9.2	3.1	0.0	0.0	0.0	0.0
80°	39.8	76.5	15.3	9.2	9.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	21.4	30.6	9.2	6.1	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	15.3	6.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.1	3.1	3.1	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)