

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: P643634

Luminaire Tested: GWS-SA6F-735-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643634  
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-SAGF-735-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

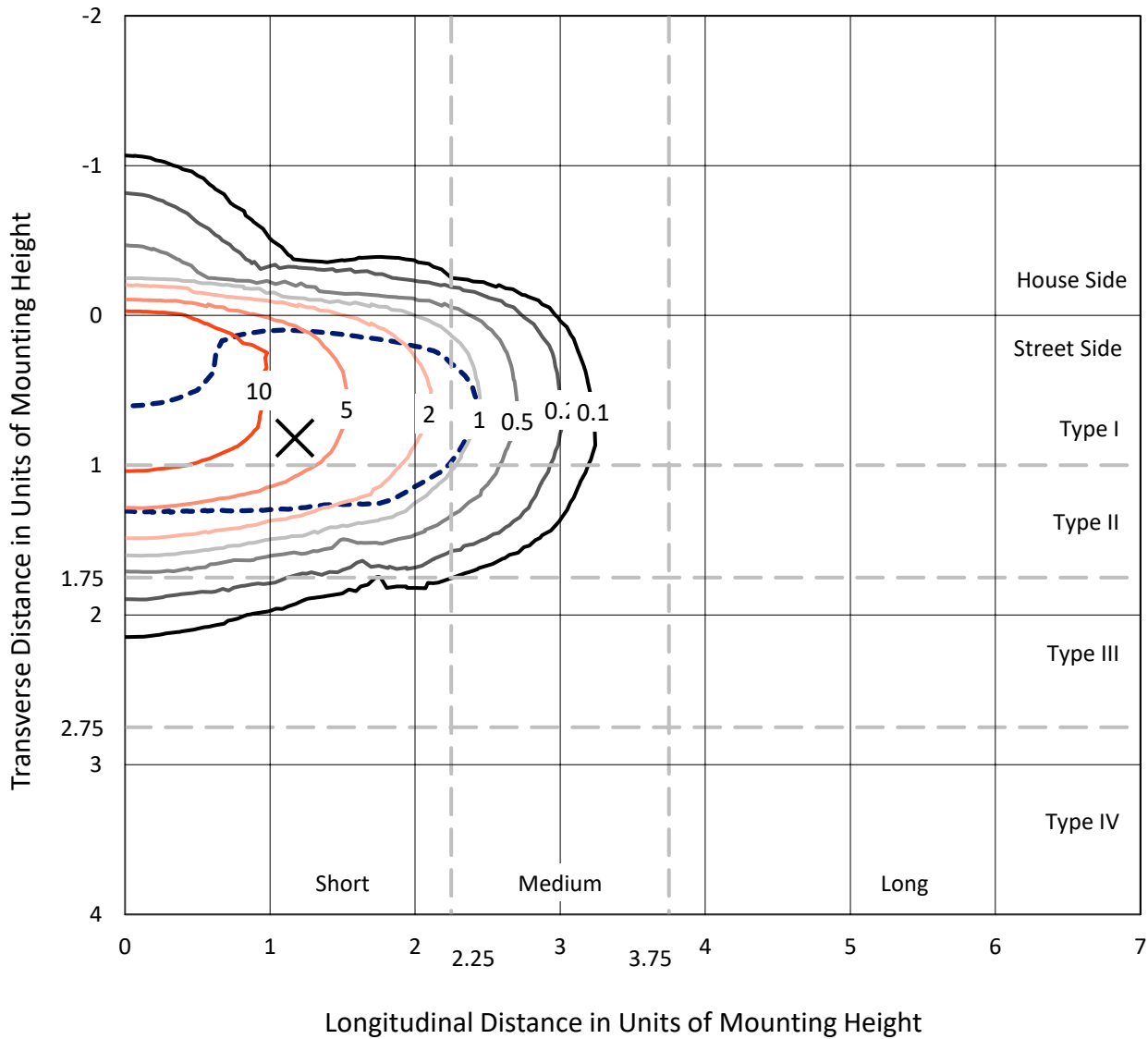
Lumens per Lamp: N/A  
Luminaire Lumens: 41165 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 372.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

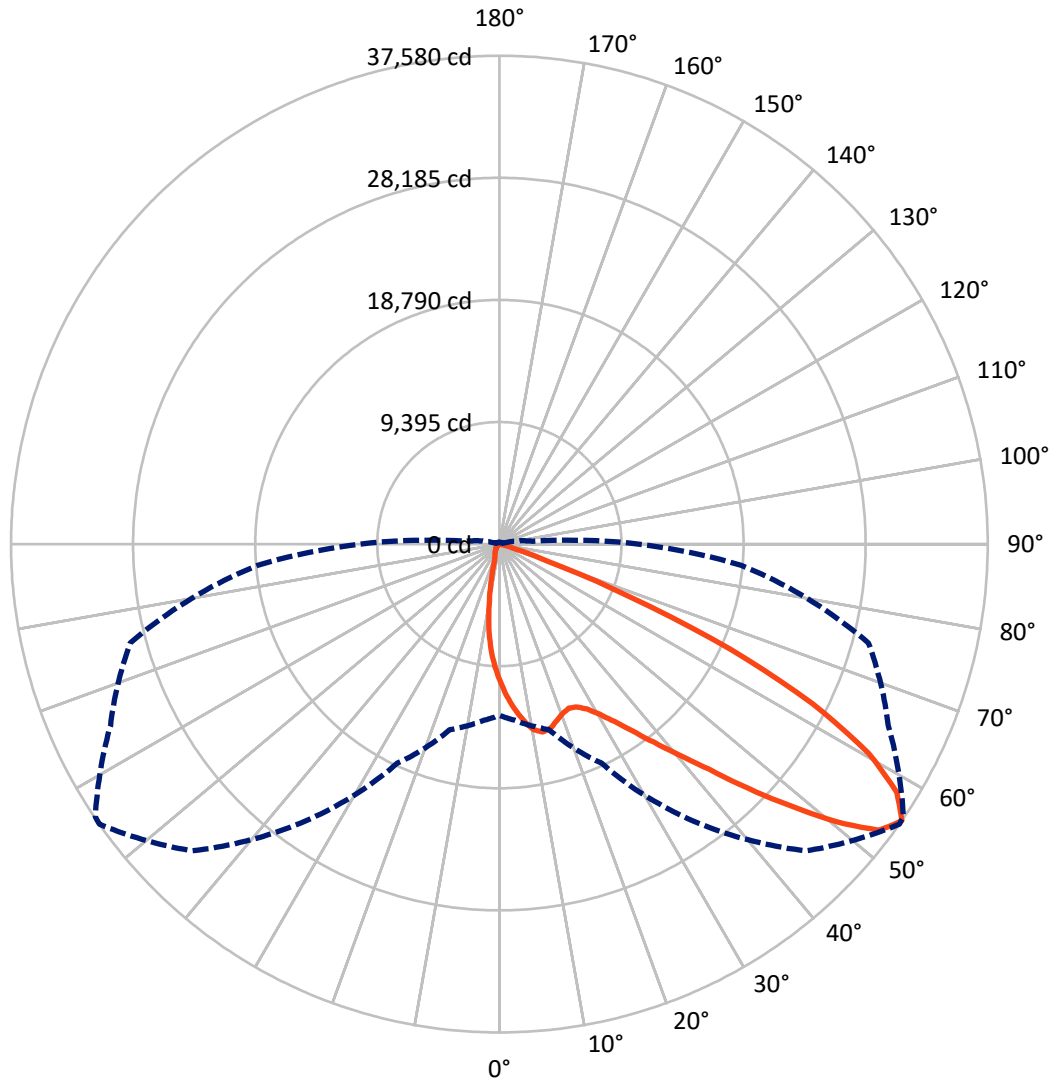
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.5 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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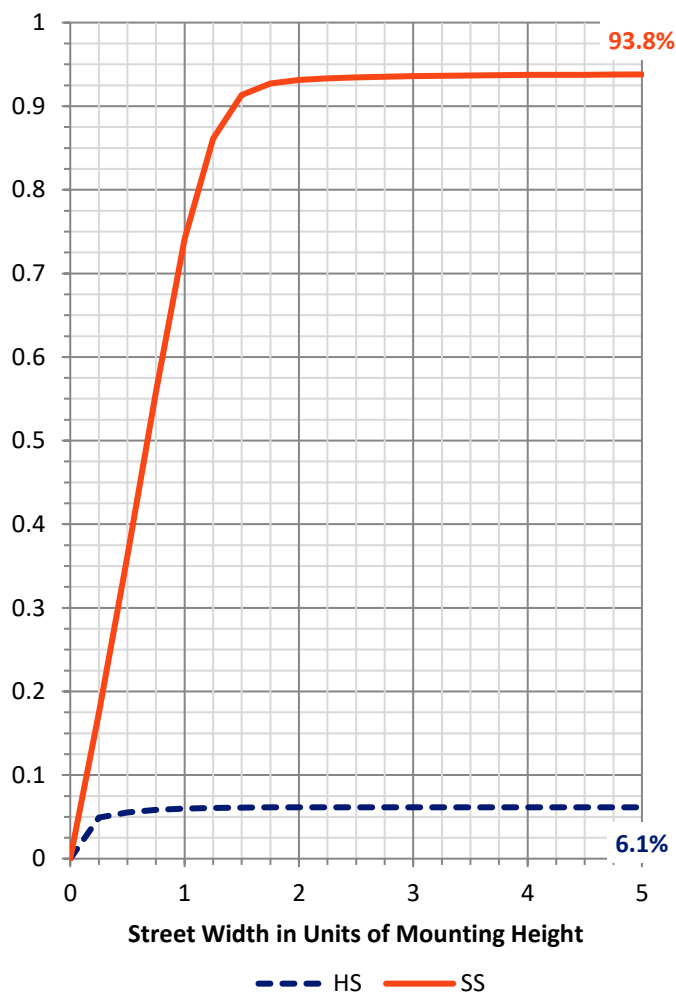
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2540.1	0.0	2540.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	38624.9	0.0	38624.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	41165.0	0.0	41165.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	939.8	2.3
10°-20°	2265.9	5.5
20°-30°	3773.5	9.2
30°-40°	6430.3	15.6
40°-50°	10496.5	25.5
50°-60°	10989.4	26.7
60°-70°	5542.8	13.5
70°-80°	700.1	1.7
80°-90°	26.6	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°	41165.0	100.0
0°-180°	41165.0	100.0

**Coefficient of Utilization**



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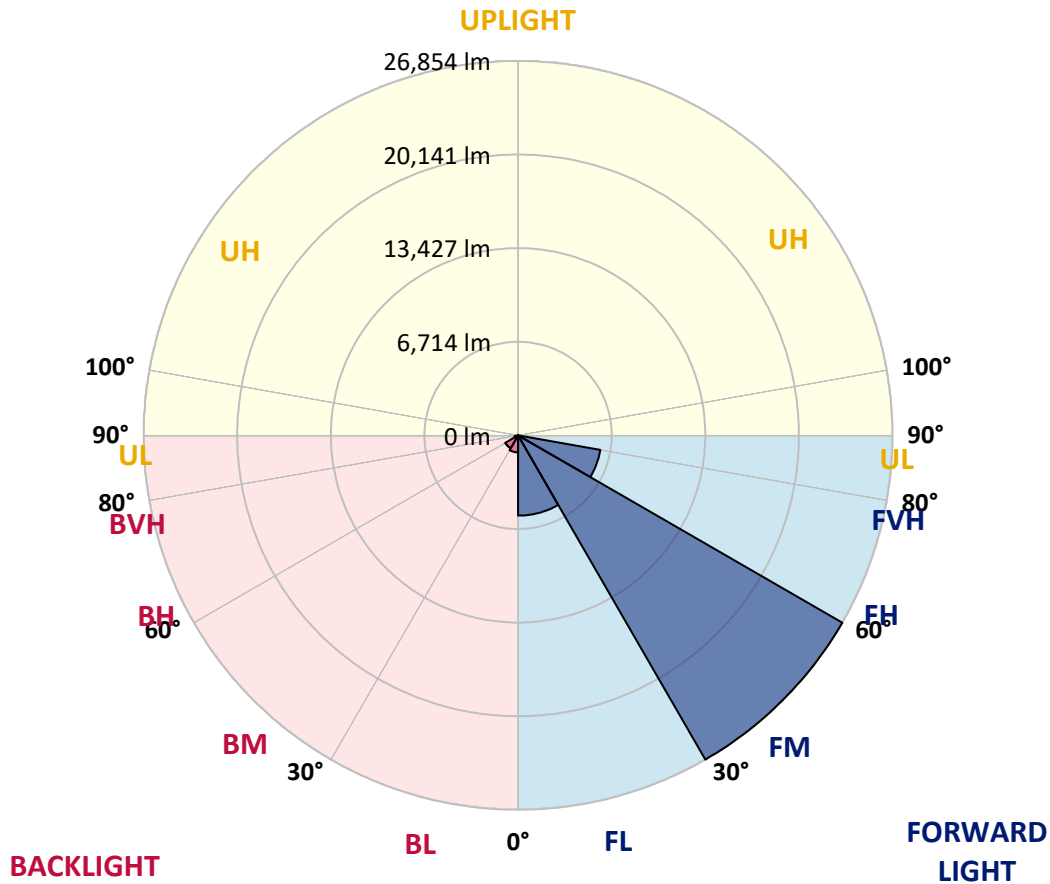
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5758.4	14.0			
FM (30°-60°)	26854.2	65.2			
FH (60°-80°)	5988.2	14.5			G3/7500
FVH (80°-90°)	24.2	0.1			G1/100
BL (0°-30°)	1220.8	3.0	B3/2500		
BM (30°-60°)	1062.0	2.6	B2/2500		
BH (60°-80°)	254.8	0.6	B1/500		G1/500
BVH (80°-90°)	2.4	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°	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6
2.5°	12397.7	12337.9	12429.3	12323.8	12144.3	11993.0	11795.9	11725.5	11408.8	11109.7	10821.1
5°	13903.8	13921.4	13893.3	13745.5	13492.1	13210.6	12812.9	12725.0	12172.5	11602.4	10986.5
7.5°	14276.9	14266.3	14326.1	14382.4	14340.2	14199.4	13766.6	13678.6	12992.4	12137.3	11239.9
10°	13126.1	13133.2	13256.3	13636.4	14107.9	14597.1	14530.2	14481.0	13808.8	12742.5	11521.4
12.5°	11500.3	11563.7	11693.9	12235.8	13034.6	14146.7	14836.4	14885.7	14558.4	13407.7	11852.2
15°	10796.5	10810.6	10916.2	11243.4	11838.1	13210.6	14706.2	14843.4	15184.8	14076.3	12211.2
17.5°	10778.9	10796.5	10842.2	10986.5	11373.6	12475.1	14287.4	14526.7	15656.3	14794.2	12640.5
20°	11440.5	11429.9	11398.3	11320.8	11489.8	12232.3	13900.3	14164.3	15913.2	15494.5	13073.3
22.5°	12640.5	12626.4	12485.7	12165.4	12028.2	12454.0	13710.3	13949.6	16068.1	16117.3	13428.8
25°	14023.5	14122.0	13858.1	13372.5	13034.6	13020.6	13879.2	14048.1	16201.8	16669.8	13671.6
27.5°	15540.2	15571.9	15346.7	14801.2	14312.1	13928.5	14368.4	14495.0	16349.6	17162.5	13808.8
30°	17204.7	17194.2	16937.3	16303.8	15709.1	15156.6	15191.8	15241.1	16694.5	17725.5	13960.1
32.5°	19284.5	19330.2	18872.8	18010.6	17296.2	16532.6	16268.7	16275.7	17317.3	18450.5	14188.9
35°	22110.3	21997.7	21392.4	20164.3	18946.7	18123.2	17672.8	17634.1	18278.0	19425.3	14586.5
37.5°	24802.4	24813.0	24179.5	22828.2	21290.4	19991.8	19354.9	19249.3	19629.4	20776.6	15248.1
40°	26671.0	26706.2	26442.3	25734.9	24105.6	22268.7	21332.6	21223.5	21381.9	22486.8	16113.8
42.5°	27659.9	27758.4	27832.3	27997.7	26762.5	25112.1	23672.8	23662.2	23496.8	24436.4	17116.7
45°	27698.6	27846.4	28296.8	29426.5	29567.2	28356.7	26790.7	26554.9	25917.9	26523.2	18014.1
47.5°	26167.8	26509.1	27466.3	29704.5	31182.5	31583.6	30031.7	29887.4	28099.8	28173.7	18686.3
50°	22599.5	22954.9	24717.9	28279.2	31590.7	34145.5	33589.5	33290.4	29922.6	29264.6	19010.0
52.5°	18939.6	19263.4	20459.9	24886.9	29898.0	34951.4	36587.8	36232.3	31559.0	29644.6	18876.3
55°	13178.9	13611.8	14780.1	18601.8	25998.9	33381.9	37580.1	37506.2	33019.4	29405.3	18668.7
57.5°	6461.0	6890.3	8055.1	11468.6	19259.9	29144.9	36063.4	36454.0	33892.1	29148.4	18499.7
60°	2699.1	2875.1	3276.3	5032.3	10775.4	22025.8	32639.4	33181.3	33357.3	28800.1	18482.1
62.5°	1566.0	1594.1	1636.4	2086.8	4191.2	12626.4	27075.7	27846.4	30545.5	28339.1	18204.1
65°	1182.4	1193.0	1175.4	1280.9	1731.4	4789.5	19562.5	20611.2	25495.7	26537.3	17106.2
67.5°	971.3	971.3	925.5	946.6	1087.4	1794.7	10800.0	12264.0	18865.7	21811.2	14125.5
70°	774.2	791.8	770.7	742.5	777.7	992.4	3842.8	4764.8	10986.5	12879.8	8238.1
72.5°	587.7	587.7	622.9	601.8	577.1	622.9	1340.8	1506.2	4409.4	5370.1	2973.6
75°	454.0	468.0	492.7	471.6	436.4	369.5	644.0	682.7	1330.2	1249.3	665.1
77.5°	232.3	235.8	313.2	344.9	323.8	225.2	281.5	309.7	432.8	387.1	246.3
80°	140.8	147.8	176.0	271.0	214.7	119.6	116.1	123.2	204.1	176.0	102.1
82.5°	59.8	63.3	98.5	98.5	88.0	45.7	45.7	45.7	98.5	91.5	42.2
85°	0.0	0.0	17.6	14.1	14.1	17.6	17.6	17.6	24.6	35.2	21.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	10.6	10.6
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°	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6	10634.6
2.5°	10634.6	10409.4	10106.8	9832.3	9462.8	9255.2	8966.6	8730.8	8530.2	8466.9	8438.7
5°	10638.1	10251.0	9603.5	8956.0	8160.7	7534.3	6890.3	6380.1	5961.3	5827.6	5792.4
7.5°	10708.5	10138.4	9089.8	7914.4	6584.2	5486.2	4504.4	3624.6	3216.4	3079.2	3051.0
10°	10803.5	10043.4	8495.0	6665.1	4754.3	3343.1	2368.3	1805.3	1537.8	1390.0	1411.1
12.5°	10926.7	9966.0	7837.0	5313.8	3146.0	1837.0	1302.1	1090.9	1034.6	1006.5	992.4
15°	11092.1	9874.5	7020.5	3973.0	1928.4	1182.4	1002.9	946.6	925.5	911.4	907.9
17.5°	11261.0	9768.9	6190.0	2794.1	1280.9	981.8	900.9	872.7	858.7	848.1	844.6
20°	11440.5	9589.5	5215.3	1924.9	1010.0	883.3	830.5	798.8	781.2	763.6	760.1
22.5°	11517.9	9300.9	4282.7	1347.8	897.4	812.9	746.0	707.3	686.2	672.1	672.1
25°	11444.0	8832.9	3318.5	1024.0	816.4	735.5	668.6	626.4	608.8	594.7	594.7
27.5°	11246.9	8231.1	2421.1	848.1	728.4	654.5	591.2	552.5	538.4	531.4	531.4
30°	11028.8	7471.0	1706.7	728.4	629.9	570.1	517.3	492.7	489.2	482.1	482.1
32.5°	10842.2	6760.1	1175.4	640.5	556.0	496.2	461.0	450.4	454.0	446.9	450.4
35°	10740.2	6063.4	872.7	570.1	496.2	439.9	422.3	422.3	422.3	418.8	418.8
37.5°	10782.4	5377.1	710.9	520.8	443.4	401.2	383.6	390.6	397.7	397.7	397.7
40°	10993.6	4768.3	629.9	475.1	397.7	366.0	351.9	362.5	373.0	380.1	380.1
42.5°	11261.0	4275.7	570.1	436.4	366.0	330.8	323.8	334.3	344.9	351.9	351.9
45°	11429.9	3779.5	510.3	387.1	334.3	292.1	292.1	306.2	302.6	306.2	306.2
47.5°	11507.4	3385.3	450.4	334.3	285.0	253.4	256.9	263.9	256.9	263.9	263.9
50°	11317.3	2987.7	397.7	278.0	235.8	221.7	228.7	225.2	225.2	239.3	239.3
52.5°	10968.9	2692.1	351.9	235.8	200.6	197.1	204.1	190.0	193.5	193.5	190.0
55°	10712.0	2523.2	313.2	204.1	172.4	176.0	172.4	147.8	133.7	119.6	116.1
57.5°	10585.4	2456.3	285.0	183.0	154.8	154.8	140.8	102.1	77.4	59.8	52.8
60°	10557.2	2375.4	256.9	158.4	137.2	130.2	102.1	59.8	38.7	28.2	24.6
62.5°	10289.8	2178.3	232.3	126.7	119.6	105.6	63.3	35.2	21.1	14.1	10.6
65°	9413.5	1791.2	207.6	98.5	91.5	77.4	38.7	21.1	10.6	3.5	0.0
67.5°	7488.6	1270.4	183.0	73.9	63.3	49.3	24.6	14.1	3.5	0.0	0.0
70°	4317.9	686.2	151.3	52.8	42.2	31.7	17.6	7.0	0.0	0.0	0.0
72.5°	1442.8	320.2	116.1	35.2	31.7	24.6	10.6	3.5	0.0	0.0	0.0
75°	316.7	190.0	77.4	24.6	21.1	17.6	7.0	0.0	0.0	0.0	0.0
77.5°	119.6	133.7	38.7	17.6	14.1	10.6	3.5	0.0	0.0	0.0	0.0
80°	45.7	88.0	17.6	10.6	10.6	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	24.6	35.2	10.6	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	17.6	7.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	3.5	3.5	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)