

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: P643279

Luminaire Tested: GWS-SA6E-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-750-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

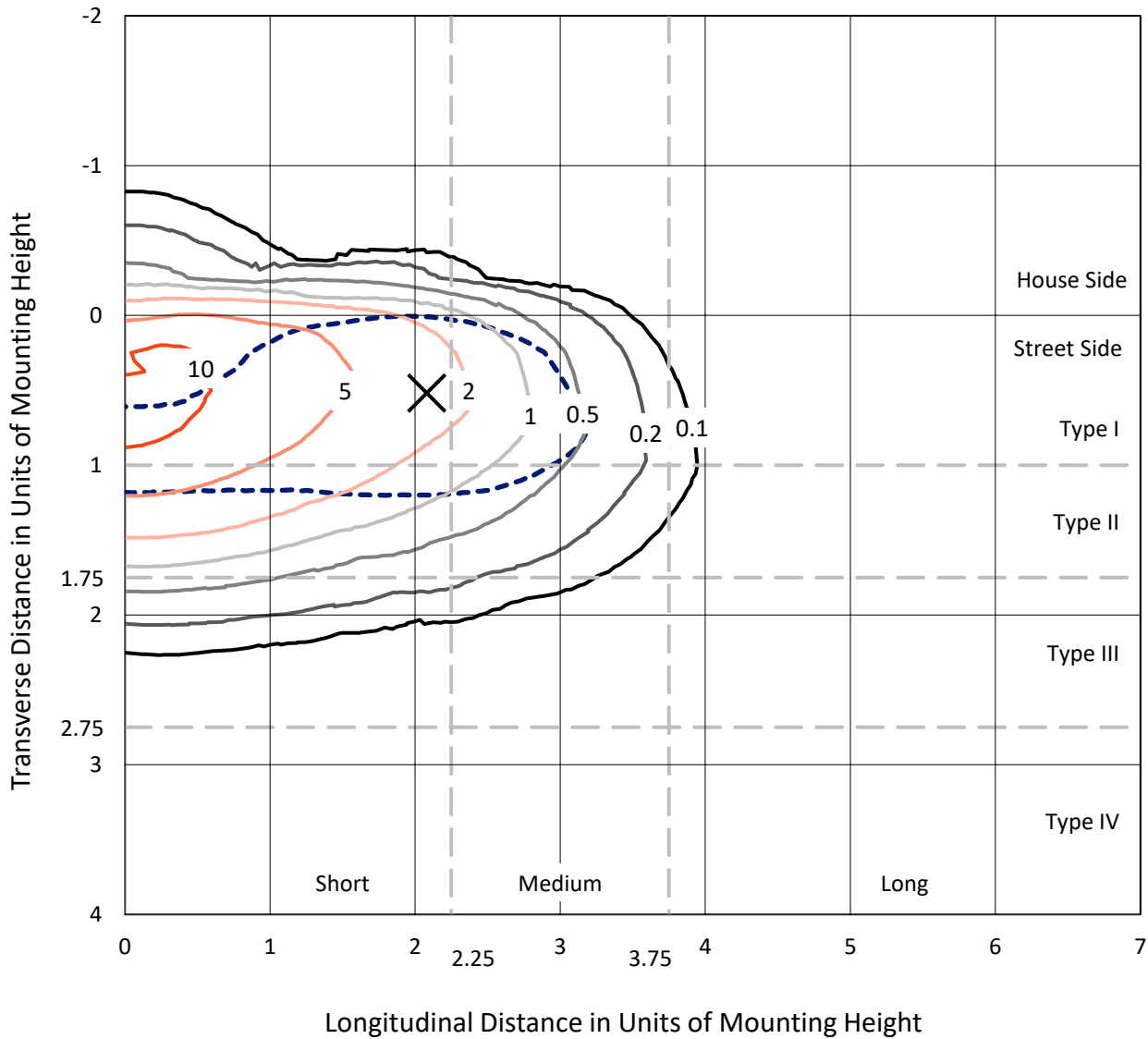
Lumens per Lamp: N/A  
Luminaire Lumens: 36929 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

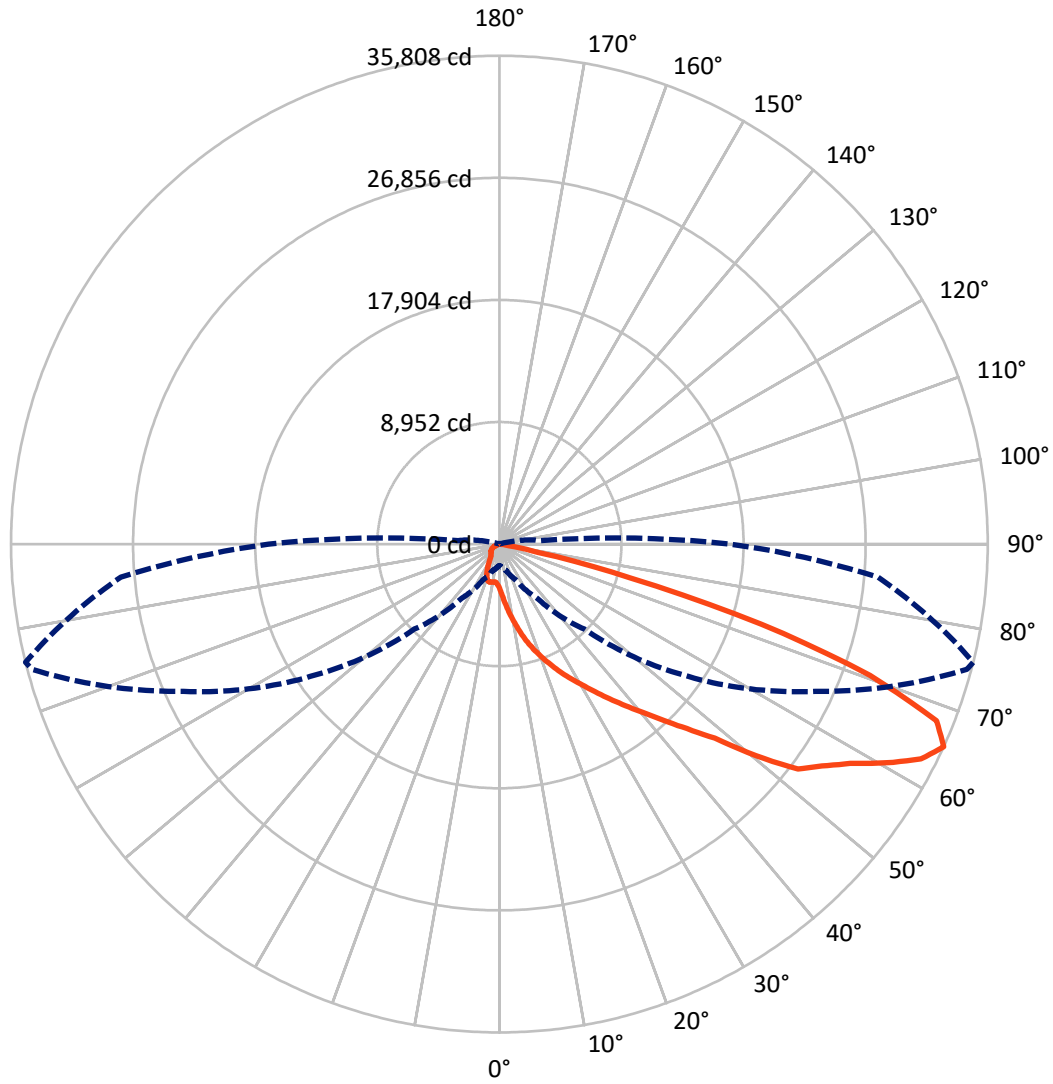
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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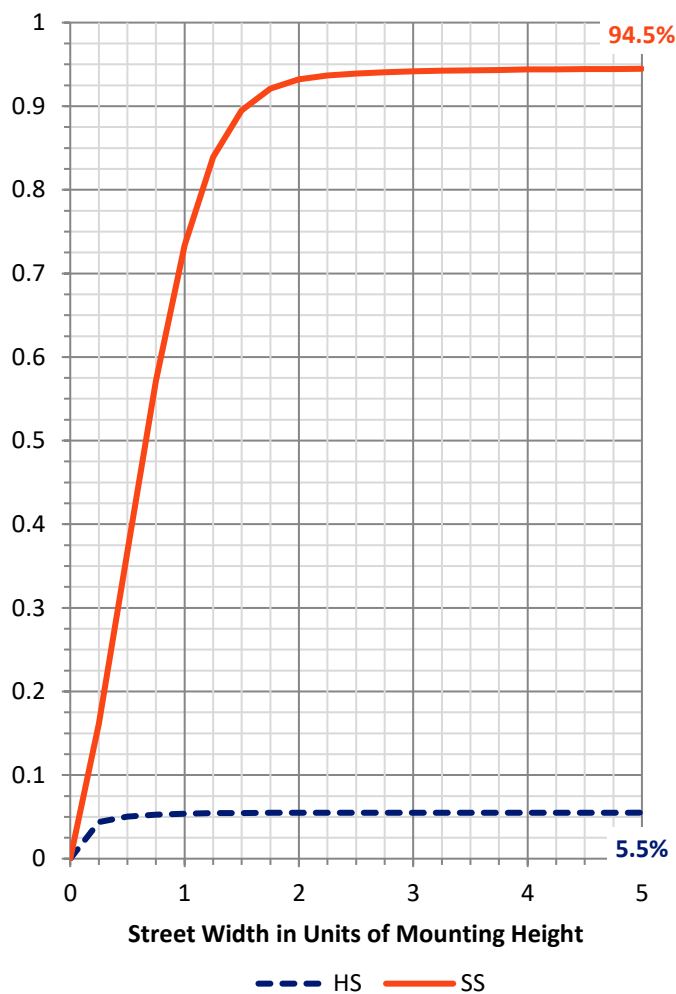
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2042.0	0.0	2042.0
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	34887.0	0.0	34887.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	36929.0	0.0	36929.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.7	1.1
10°-20°	1509.3	4.1
20°-30°	3079.2	8.3
30°-40°	5476.4	14.8
40°-50°	8095.4	21.9
50°-60°	9268.7	25.1
60°-70°	7071.6	19.1
70°-80°	1980.9	5.4
80°-90°	49.9	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°	36929.0	100.0
0°-180°	36929.0	100.0

**Coefficient of Utilization**

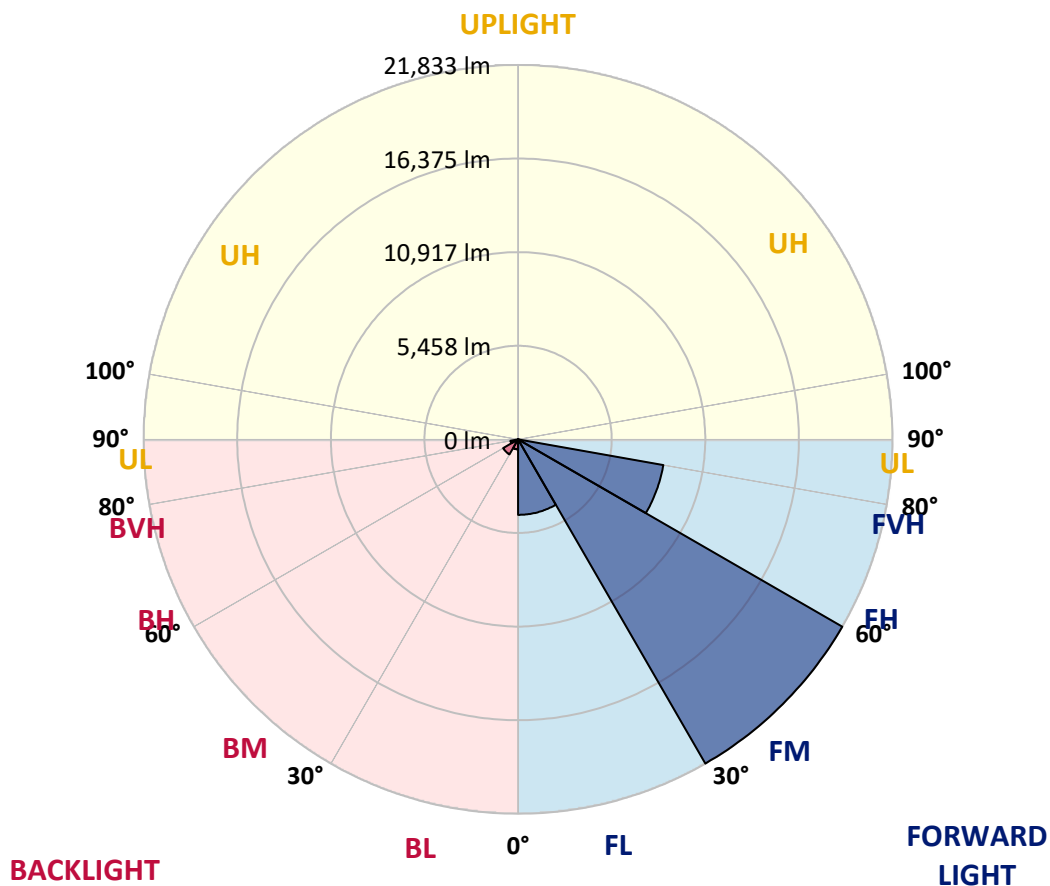


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4403.5	11.9			
FM (30°-60°)	21833.0	59.1			
FH (60°-80°)	8603.6	23.3			G4/12000
FVH (80°-90°)	47.0	0.1			G1/100
BL (0°-30°)	582.7	1.6	B2/1000		
BM (30°-60°)	1007.5	2.7	B2/2500		
BH (60°-80°)	448.9	1.2	B1/500		G1/500
BVH (80°-90°)	2.9	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-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6
2.5°	5038.9	5114.4	5055.3	4956.9	4766.5	4582.6	4346.3	4021.3	3762.0	3729.1	3486.2
5°	6805.0	6798.5	6670.4	6542.4	6342.2	6027.0	5551.0	4947.0	4366.0	4316.7	3771.8
7.5°	7855.5	7865.3	7793.1	7694.6	7497.7	7172.7	6677.0	5948.2	5098.0	4999.5	4162.5
10°	8738.5	8735.2	8682.7	8636.8	8459.5	8242.8	7711.0	6910.1	5885.9	5731.6	4599.1
12.5°	9401.6	9424.6	9450.9	9496.8	9421.3	9208.0	8705.7	7832.5	6683.6	6512.9	5098.0
15°	9926.9	9933.4	10031.9	10209.2	10271.6	10159.9	9703.6	8725.4	7471.4	7323.7	5672.5
17.5°	10084.4	10097.6	10265.0	10590.0	10918.2	10980.6	10635.9	9624.9	8246.1	8088.6	6230.6
20°	10416.0	10445.5	10570.3	10855.9	11269.5	11604.3	11469.7	10534.2	9020.8	8814.0	6801.7
22.5°	11459.9	11476.3	11433.6	11469.7	11683.1	12070.5	12152.5	11413.9	9815.3	9595.3	7418.9
25°	13255.5	13262.1	12963.4	12681.0	12520.2	12592.4	12773.0	12224.8	10603.1	10386.4	7993.4
27.5°	15120.1	15143.1	14785.3	14306.0	13731.5	13403.2	13350.7	12966.6	11397.5	11157.9	8561.3
30°	16876.3	16876.3	16498.8	15914.5	15146.4	14506.2	14128.7	13715.1	12247.7	11985.1	9142.3
32.5°	18455.3	18442.2	17959.6	17326.1	16567.8	15865.3	15070.8	14496.4	13193.1	12901.0	9812.0
35°	19758.5	19725.7	19177.5	18570.2	17759.4	17237.4	16351.1	15336.7	14217.3	13925.2	10501.3
37.5°	20743.3	20707.2	20205.0	19561.6	18809.8	18471.7	17729.8	16344.5	15297.4	15031.5	11266.2
40°	21278.4	21206.2	20858.2	20379.0	19748.7	19453.2	19144.7	17595.2	16567.8	16236.2	12168.9
42.5°	21436.0	21350.6	21120.9	20897.6	20516.8	20283.8	20615.3	19006.8	17962.9	17677.3	13199.7
45°	20969.9	20920.6	20900.9	21061.8	21130.7	21196.4	22013.7	20569.4	19502.5	19285.8	14496.4
47.5°	19847.2	19834.0	20008.0	20677.7	21406.4	22099.1	23533.6	22496.3	21498.4	21265.3	16308.4
50°	17772.5	17907.1	18392.9	19568.1	21025.7	22611.2	24955.0	25168.4	24728.5	24387.1	18672.0
52.5°	14529.2	14788.5	15878.4	17664.2	19758.5	22466.8	25611.6	27308.7	27758.5	27403.9	20365.8
55°	11400.8	11643.7	12615.4	14880.5	17674.0	21367.1	25641.1	28047.3	29028.9	28700.6	21511.5
57.5°	8492.3	8715.6	9598.6	11765.2	14837.8	19203.8	24938.6	28457.7	30535.6	30325.5	23320.3
60°	5551.0	5771.0	6568.7	8462.8	11509.1	16052.4	23208.6	28372.3	32587.3	32567.6	25542.6
62.5°	3079.2	3253.1	3830.9	5308.1	8032.8	12431.6	20490.6	27515.5	34573.3	34698.1	27374.4
65°	1575.7	1687.3	2038.6	2918.3	4861.7	8814.0	16915.7	25552.5	35492.5	35807.6	27856.9
67.5°	1030.8	1066.9	1152.2	1516.6	2603.2	5544.5	12730.3	22404.4	34199.1	34566.8	26238.6
70°	837.1	866.6	915.9	1011.1	1342.6	2944.6	8361.0	17894.0	28575.9	28825.3	20894.3
72.5°	613.9	653.3	748.5	810.8	968.4	1615.1	4349.6	11745.5	19623.9	20063.8	13130.8
75°	453.0	476.0	554.8	640.1	791.1	1020.9	1664.3	6174.7	10133.7	9877.6	5514.9
77.5°	272.5	288.9	354.5	410.3	564.6	636.8	581.0	2281.5	3082.4	2898.6	1332.8
80°	134.6	151.0	233.1	308.6	361.1	256.1	242.9	636.8	686.1	686.1	334.8
82.5°	46.0	59.1	124.7	203.5	177.3	98.5	114.9	164.1	183.8	193.7	98.5
85°	0.0	0.0	29.5	59.1	26.3	13.1	29.5	36.1	46.0	49.2	32.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	9.8	13.1	13.1
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°	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6	3269.6
2.5°	3354.9	3200.6	2967.6	2757.5	2596.6	2445.6	2330.7	2238.8	2222.4	2169.9	2176.4
5°	3505.9	3226.9	2796.9	2465.3	2232.2	2074.7	1943.4	1844.9	1802.2	1759.5	1726.7
7.5°	3739.0	3335.2	2731.2	2327.4	2055.0	1812.0	1608.5	1444.4	1365.6	1316.4	1283.5
10°	4024.6	3486.2	2734.5	2245.4	1841.6	1470.6	1191.6	1011.1	925.7	899.5	896.2
12.5°	4366.0	3676.6	2760.7	2110.8	1533.0	1093.1	883.0	801.0	774.7	751.7	751.7
15°	4727.1	3890.0	2760.7	1864.6	1168.6	853.5	764.9	712.3	679.5	666.4	659.8
17.5°	5107.9	4090.2	2695.1	1526.5	896.2	751.7	679.5	630.3	604.0	584.3	577.8
20°	5514.9	4280.6	2531.0	1168.6	768.2	673.0	604.0	554.8	528.5	508.8	508.8
22.5°	5928.5	4457.9	2265.1	899.5	679.5	597.5	531.8	485.8	459.6	439.9	439.9
25°	6312.6	4576.1	1923.7	741.9	613.9	531.8	472.7	426.8	397.2	384.1	377.5
27.5°	6670.4	4651.6	1546.1	653.3	551.5	476.0	413.6	370.9	348.0	338.1	331.6
30°	7041.4	4671.3	1181.8	594.2	499.0	420.2	361.1	328.3	308.6	295.4	295.4
32.5°	7402.5	4648.3	902.7	544.9	453.0	370.9	321.7	292.2	275.7	265.9	262.6
35°	7770.1	4543.2	732.0	502.3	407.1	325.0	285.6	262.6	252.8	239.6	239.6
37.5°	8170.6	4402.1	636.8	459.6	361.1	292.2	256.1	239.6	226.5	216.7	213.4
40°	8669.6	4238.0	584.3	423.5	318.4	262.6	229.8	213.4	203.5	193.7	190.4
42.5°	9260.5	4077.1	558.1	384.1	285.6	233.1	206.8	187.1	177.3	164.1	160.9
45°	10097.6	4041.0	528.5	341.4	256.1	210.1	180.5	160.9	147.7	137.9	134.6
47.5°	11443.5	4142.8	479.3	295.4	226.5	183.8	154.3	137.9	121.5	111.6	105.0
50°	12779.5	4116.5	430.0	256.1	200.2	157.6	131.3	114.9	98.5	88.6	85.4
52.5°	13508.3	3991.8	384.1	226.5	174.0	134.6	111.6	91.9	82.1	72.2	68.9
55°	14168.1	3942.5	338.1	197.0	147.7	118.2	91.9	75.5	68.9	59.1	55.8
57.5°	15461.5	4057.4	298.7	170.7	128.0	101.8	78.8	62.4	55.8	46.0	42.7
60°	16814.0	4070.5	256.1	147.7	111.6	85.4	62.4	49.2	42.7	32.8	29.5
62.5°	17519.7	3739.0	210.1	124.7	91.9	72.2	52.5	39.4	32.8	19.7	19.7
65°	16928.9	3023.4	177.3	101.8	72.2	55.8	39.4	29.5	19.7	9.8	3.3
67.5°	14982.2	2150.2	147.7	82.1	52.5	39.4	29.5	19.7	3.3	0.0	0.0
70°	10970.8	1227.7	114.9	59.1	39.4	26.3	19.7	9.8	0.0	0.0	0.0
72.5°	6742.7	656.5	85.4	39.4	29.5	19.7	16.4	6.6	0.0	0.0	0.0
75°	2557.2	315.1	52.5	26.3	23.0	16.4	9.8	3.3	0.0	0.0	0.0
77.5°	692.6	154.3	29.5	19.7	16.4	9.8	6.6	0.0	0.0	0.0	0.0
80°	180.5	72.2	19.7	13.1	9.8	6.6	0.0	0.0	0.0	0.0	0.0
82.5°	62.4	32.8	9.8	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0
85°	26.3	13.1	6.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.3	3.3	3.3	3.3	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)