

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: P638384

Luminaire Tested: GWS-SA4E-760-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638384  
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-SA4E-760-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

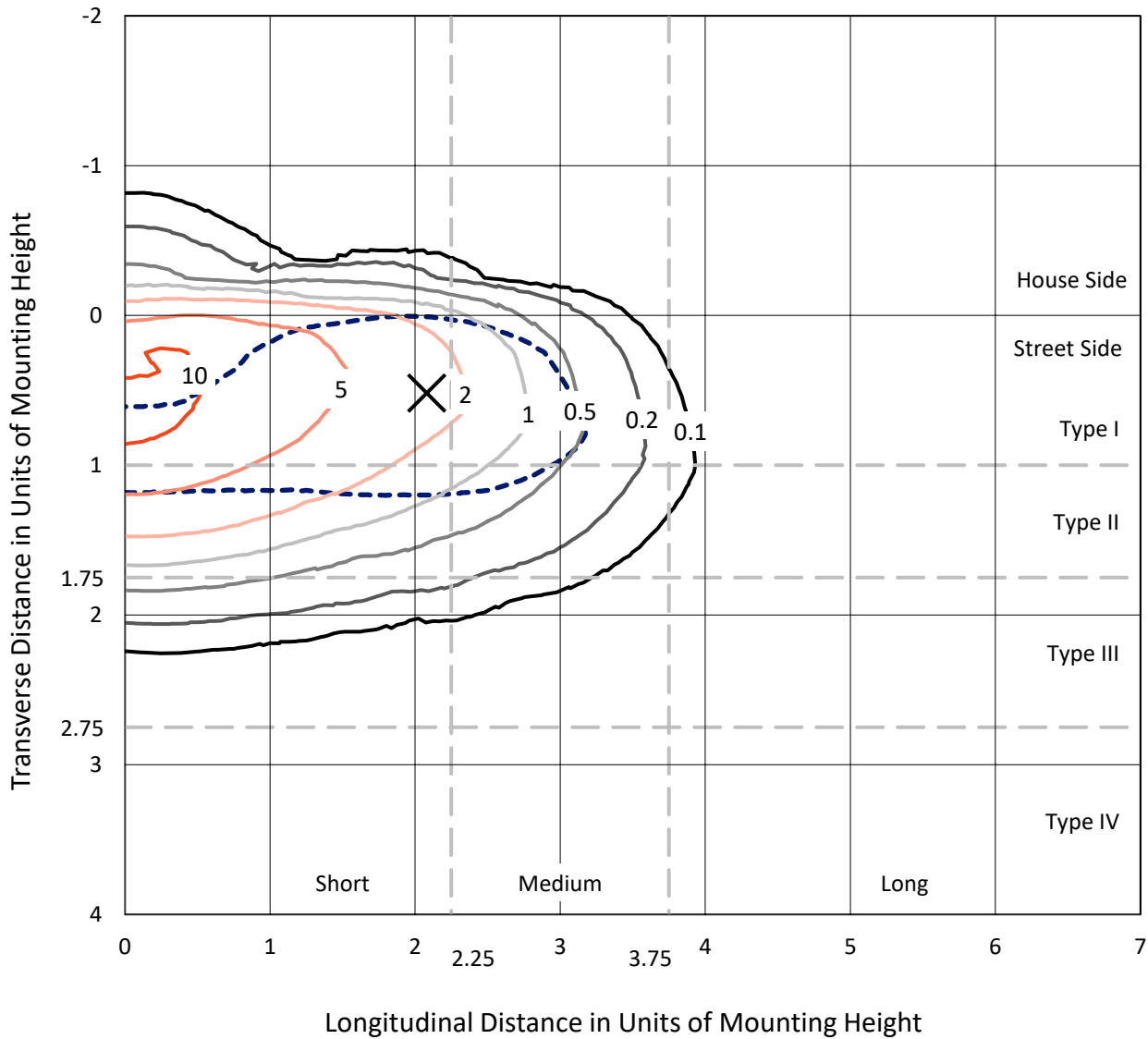
Lumens per Lamp: N/A  
Luminaire Lumens: 24900 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

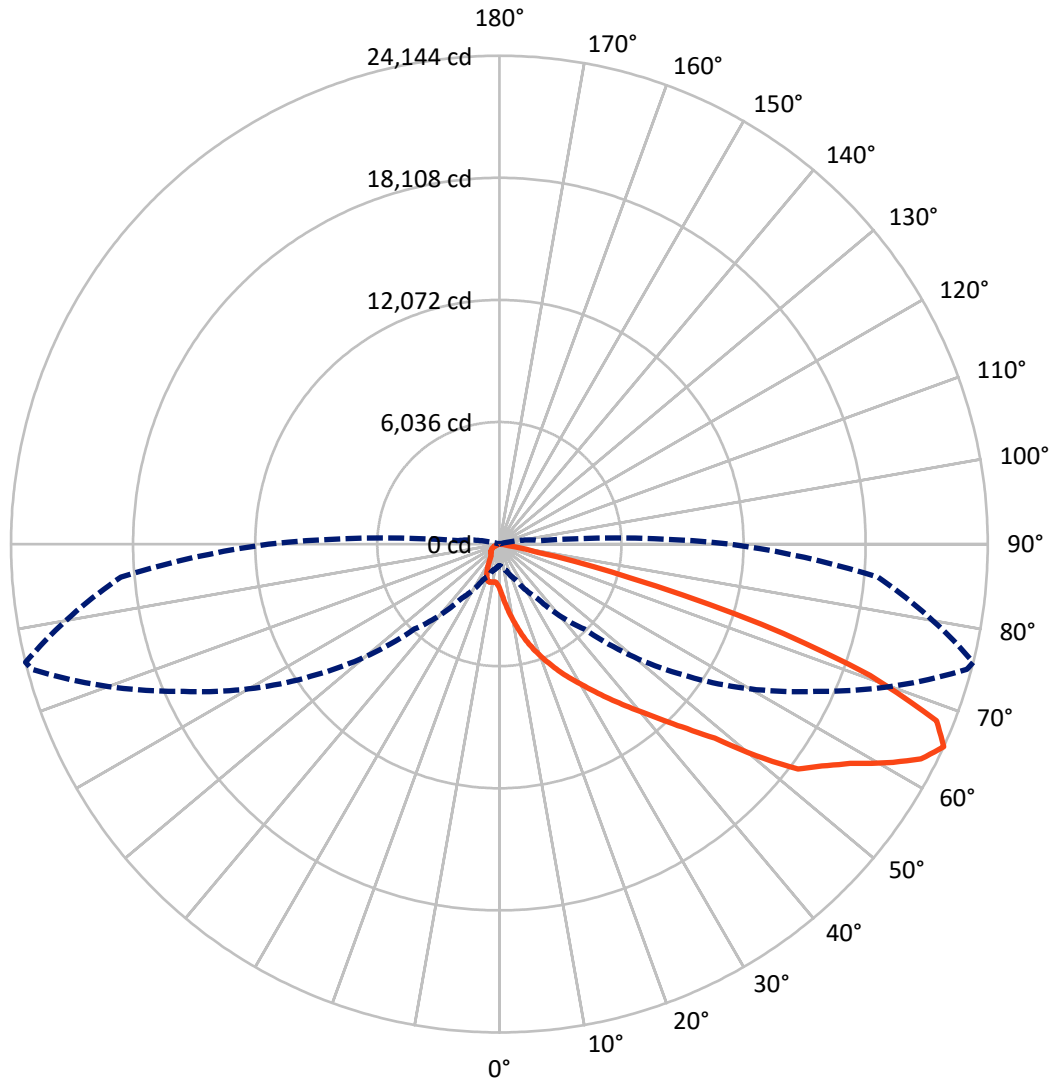
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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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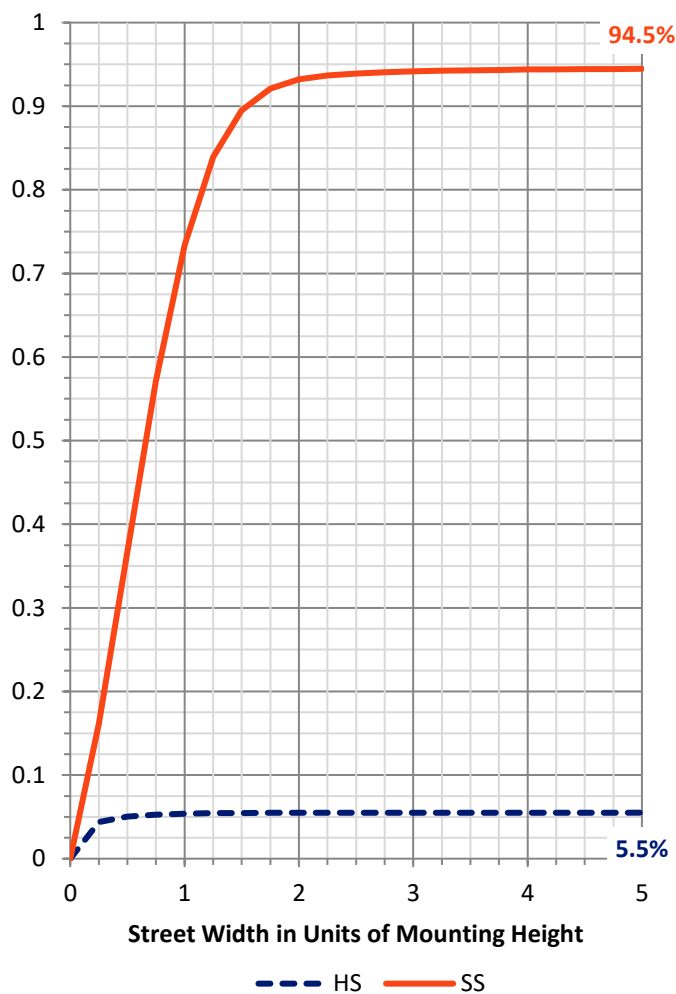
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1376.8	0.0	1376.8
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	23523.2	0.0	23523.2
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	24900.0	0.0	24900.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.2	1.1
10°-20°	1017.7	4.1
20°-30°	2076.2	8.3
30°-40°	3692.6	14.8
40°-50°	5458.5	21.9
50°-60°	6249.5	25.1
60°-70°	4768.1	19.1
70°-80°	1335.6	5.4
80°-90°	33.6	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°	24900.0	100.0
0°-180°	24900.0	100.0

**Coefficient of Utilization**



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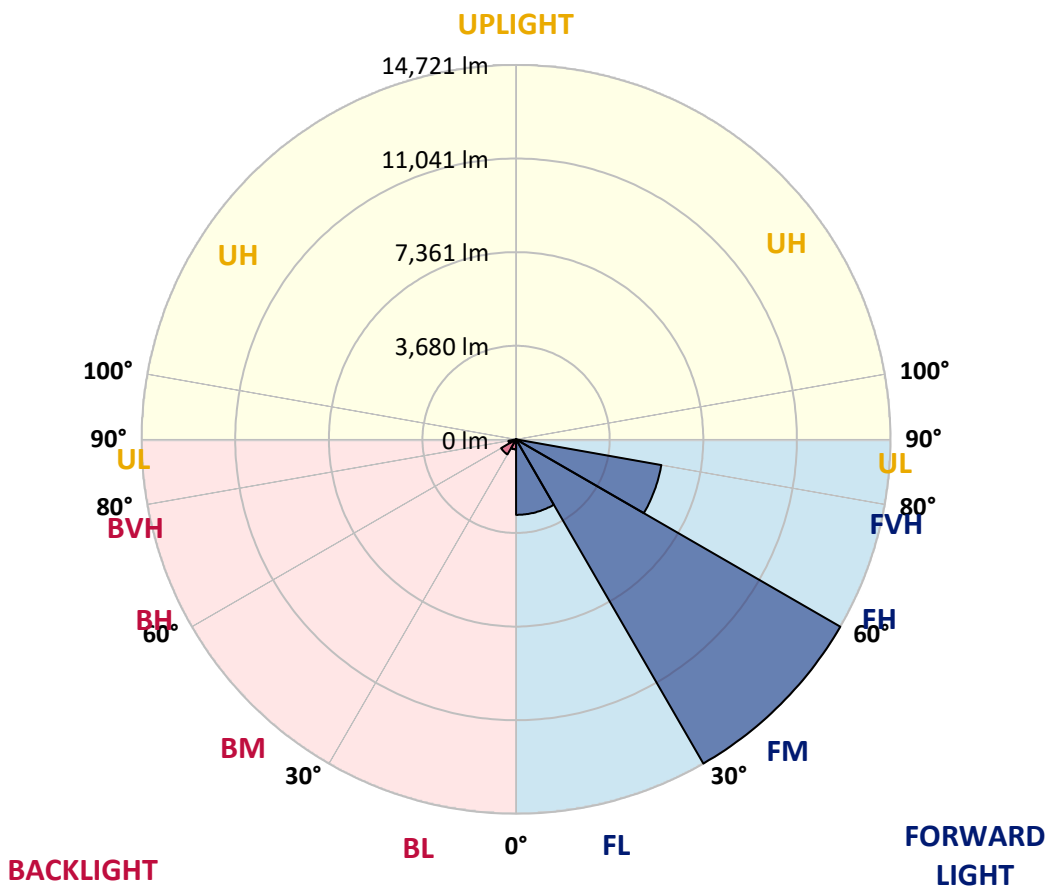
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2969.1	11.9			
FM (30°-60°)	14721.3	59.1			
FH (60°-80°)	5801.1	23.3			G3/7500
FVH (80°-90°)	31.7	0.1			G1/100
BL (0°-30°)	392.9	1.6	B1/500		
BM (30°-60°)	679.3	2.7	B1/1000		
BH (60°-80°)	302.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6
2.5°	3397.6	3448.5	3408.7	3342.3	3213.9	3089.9	2930.6	2711.4	2536.6	2514.4	2350.6
5°	4588.4	4584.0	4497.7	4411.3	4276.3	4063.8	3742.9	3335.6	2943.8	2910.6	2543.2
7.5°	5296.7	5303.3	5254.6	5188.2	5055.4	4836.3	4502.1	4010.7	3437.4	3371.0	2806.6
10°	5892.1	5889.9	5854.5	5823.5	5704.0	5557.9	5199.3	4659.2	3968.6	3864.6	3101.0
12.5°	6339.2	6354.7	6372.4	6403.4	6352.5	6208.6	5870.0	5281.2	4506.5	4391.4	3437.4
15°	6693.4	6697.8	6764.2	6883.7	6925.8	6850.5	6542.8	5883.2	5037.7	4938.1	3824.8
17.5°	6799.6	6808.5	6921.3	7140.5	7361.8	7403.9	7171.5	6489.7	5560.1	5453.8	4201.1
20°	7023.2	7043.1	7127.2	7319.8	7598.6	7824.4	7733.7	7102.8	6082.5	5943.0	4586.2
22.5°	7727.0	7738.1	7709.3	7733.7	7877.5	8138.7	8194.1	7696.0	6618.1	6469.8	5002.3
25°	8937.8	8942.2	8740.8	8550.4	8442.0	8490.6	8612.4	8242.7	7149.3	7003.2	5389.7
27.5°	10195.0	10210.5	9969.2	9646.0	9258.7	9037.4	9001.9	8743.0	7685.0	7523.4	5772.6
30°	11379.2	11379.2	11124.6	10730.6	10212.7	9781.1	9526.5	9247.6	8258.2	8081.2	6164.4
32.5°	12443.8	12434.9	12109.6	11682.4	11171.1	10697.4	10161.8	9774.4	8895.7	8698.7	6615.9
35°	13322.5	13300.4	12930.8	12521.3	11974.6	11622.6	11025.0	10341.1	9586.3	9389.3	7080.7
37.5°	13986.5	13962.2	13623.6	13189.7	12682.8	12454.9	11954.6	11020.6	10314.5	10135.2	7596.4
40°	14347.3	14298.6	14064.0	13740.9	13315.9	13116.7	12908.6	11863.9	11171.1	10947.5	8205.1
42.5°	14453.6	14396.0	14241.1	14090.6	13833.8	13676.7	13900.2	12815.7	12111.8	11919.2	8900.1
45°	14139.3	14106.1	14092.8	14201.3	14247.7	14292.0	14843.1	13869.2	13149.9	13003.8	9774.4
47.5°	13382.3	13373.4	13490.7	13942.3	14433.7	14900.7	15867.9	15168.5	14495.6	14338.5	10996.2
50°	11983.4	12074.2	12401.7	13194.1	14176.9	15246.0	16826.4	16970.2	16673.6	16443.4	12589.9
52.5°	9796.6	9971.4	10706.3	11910.4	13322.5	15148.6	17269.0	18413.4	18716.6	18477.6	13732.0
55°	7687.2	7851.0	8506.1	10033.4	11917.0	14407.1	17289.0	18911.4	19573.2	19351.9	14504.5
57.5°	5726.1	5876.6	6472.0	7932.9	10004.6	12948.5	16815.3	19188.1	20589.2	20447.5	15724.1
60°	3742.9	3891.2	4429.0	5706.2	7760.2	10823.6	15648.8	19130.5	21972.5	21959.3	17222.6
62.5°	2076.2	2193.5	2583.1	3579.1	5416.2	8382.2	13816.1	18552.8	23311.7	23395.8	18457.6
65°	1062.4	1137.7	1374.5	1967.7	3278.1	5943.0	11405.7	17229.2	23931.4	24143.9	18783.0
67.5°	695.0	719.4	776.9	1022.6	1755.2	3738.5	8583.6	15106.5	23059.3	23307.2	17691.8
70°	564.4	584.3	617.5	681.7	905.3	1985.4	5637.6	12065.3	19267.8	19436.0	14088.4
72.5°	413.9	440.5	504.7	546.7	653.0	1089.0	2932.8	7919.6	13231.8	13528.4	8853.6
75°	305.5	320.9	374.1	431.6	533.4	688.4	1122.2	4163.4	6832.8	6660.2	3718.5
77.5°	183.7	194.8	239.0	276.7	380.7	429.4	391.8	1538.3	2078.4	1954.4	898.6
80°	90.7	101.8	157.2	208.1	243.5	172.6	163.8	429.4	462.6	462.6	225.8
82.5°	31.0	39.8	84.1	137.2	119.5	66.4	77.5	110.7	124.0	130.6	66.4
85°	0.0	0.0	19.9	39.8	17.7	8.9	19.9	24.3	31.0	33.2	22.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.9	8.9
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°	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6	2204.6
2.5°	2262.1	2158.1	2000.9	1859.3	1750.8	1649.0	1571.5	1509.5	1498.5	1463.1	1467.5
5°	2363.9	2175.8	1885.8	1662.3	1505.1	1398.9	1310.3	1243.9	1215.2	1186.4	1164.3
7.5°	2521.1	2248.8	1841.6	1569.3	1385.6	1221.8	1084.6	973.9	920.8	887.6	865.4
10°	2713.6	2350.6	1843.8	1514.0	1241.7	991.6	803.5	681.7	624.2	606.5	604.3
12.5°	2943.8	2479.0	1861.5	1423.2	1033.7	737.1	595.4	540.1	522.4	506.9	506.9
15°	3187.3	2622.9	1861.5	1257.2	788.0	575.5	515.7	480.3	458.2	449.3	444.9
17.5°	3444.1	2757.9	1817.2	1029.2	604.3	506.9	458.2	425.0	407.3	394.0	389.6
20°	3718.5	2886.3	1706.5	788.0	517.9	453.7	407.3	374.1	356.4	343.1	343.1
22.5°	3997.4	3005.8	1527.3	606.5	458.2	402.8	358.6	327.6	309.9	296.6	296.6
25°	4256.4	3085.5	1297.1	500.2	413.9	358.6	318.7	287.7	267.8	259.0	254.5
27.5°	4497.7	3136.4	1042.5	440.5	371.9	320.9	278.9	250.1	234.6	228.0	223.6
30°	4747.8	3149.7	796.8	400.6	336.4	283.3	243.5	221.3	208.1	199.2	199.2
32.5°	4991.2	3134.2	608.7	367.4	305.5	250.1	216.9	197.0	185.9	179.3	177.1
35°	5239.1	3063.4	493.6	338.7	274.5	219.1	192.6	177.1	170.4	161.6	161.6
37.5°	5509.2	2968.2	429.4	309.9	243.5	197.0	172.6	161.6	152.7	146.1	143.9
40°	5845.6	2857.5	394.0	285.5	214.7	177.1	154.9	143.9	137.2	130.6	128.4
42.5°	6244.0	2749.1	376.3	259.0	192.6	157.2	139.4	126.2	119.5	110.7	108.5
45°	6808.5	2724.7	356.4	230.2	172.6	141.7	121.7	108.5	99.6	93.0	90.7
47.5°	7716.0	2793.3	323.2	199.2	152.7	124.0	104.0	93.0	81.9	75.3	70.8
50°	8616.8	2775.6	290.0	172.6	135.0	106.2	88.5	77.5	66.4	59.8	57.5
52.5°	9108.2	2691.5	259.0	152.7	117.3	90.7	75.3	62.0	55.3	48.7	46.5
55°	9553.1	2658.3	228.0	132.8	99.6	79.7	62.0	50.9	46.5	39.8	37.6
57.5°	10425.2	2735.8	201.4	115.1	86.3	68.6	53.1	42.1	37.6	31.0	28.8
60°	11337.1	2744.6	172.6	99.6	75.3	57.5	42.1	33.2	28.8	22.1	19.9
62.5°	11813.0	2521.1	141.7	84.1	62.0	48.7	35.4	26.6	22.1	13.3	13.3
65°	11414.6	2038.6	119.5	68.6	48.7	37.6	26.6	19.9	13.3	6.6	2.2
67.5°	10102.0	1449.8	99.6	55.3	35.4	26.6	19.9	13.3	2.2	0.0	0.0
70°	7397.2	827.8	77.5	39.8	26.6	17.7	13.3	6.6	0.0	0.0	0.0
72.5°	4546.3	442.7	57.5	26.6	19.9	13.3	11.1	4.4	0.0	0.0	0.0
75°	1724.2	212.5	35.4	17.7	15.5	11.1	6.6	2.2	0.0	0.0	0.0
77.5°	467.0	104.0	19.9	13.3	11.1	6.6	4.4	0.0	0.0	0.0	0.0
80°	121.7	48.7	13.3	8.9	6.6	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	42.1	22.1	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	17.7	8.9	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	2.2	2.2	2.2	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)