

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: P638354

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638354  
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-SA4E-760-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

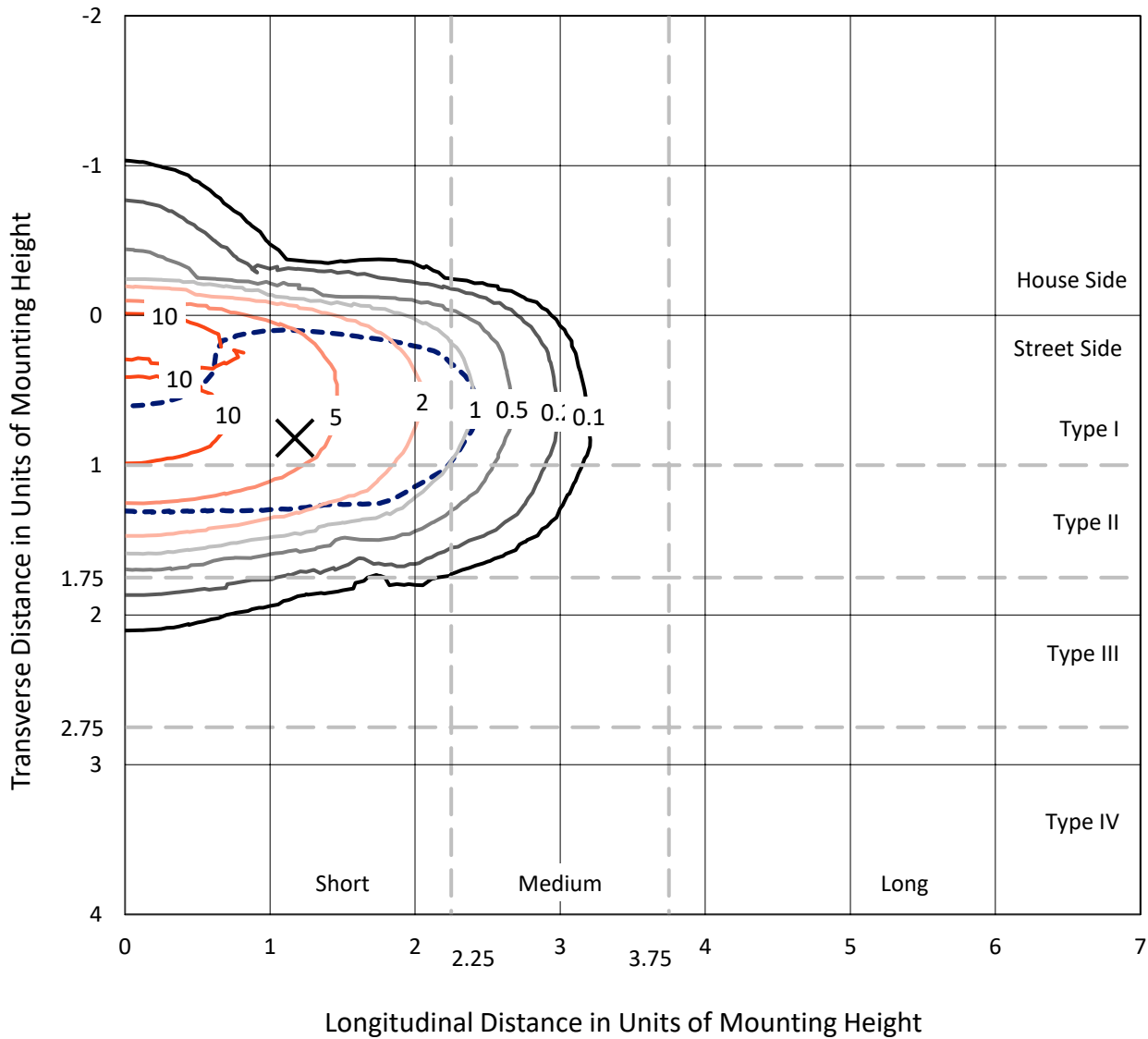
Lumens per Lamp: N/A  
Luminaire Lumens: 25891.6 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

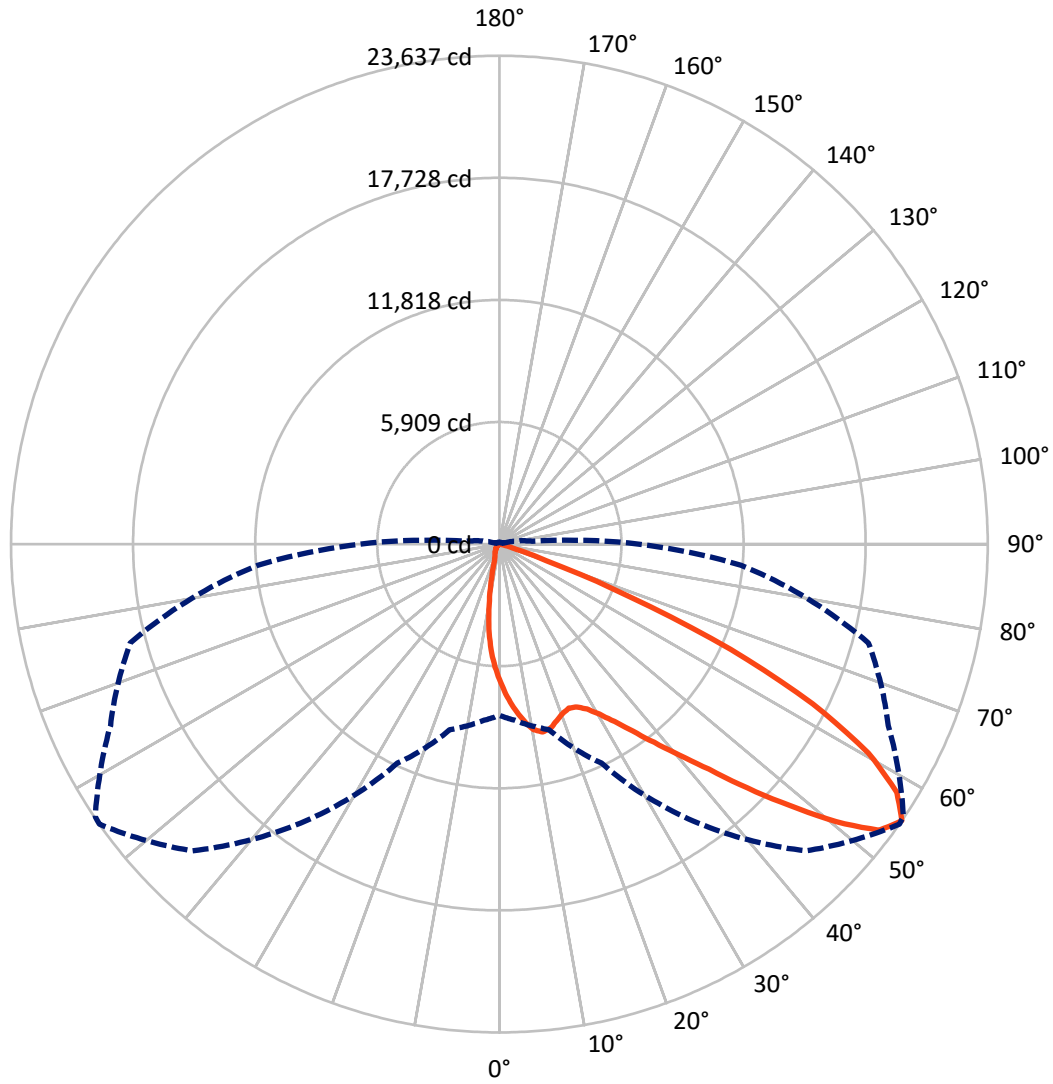
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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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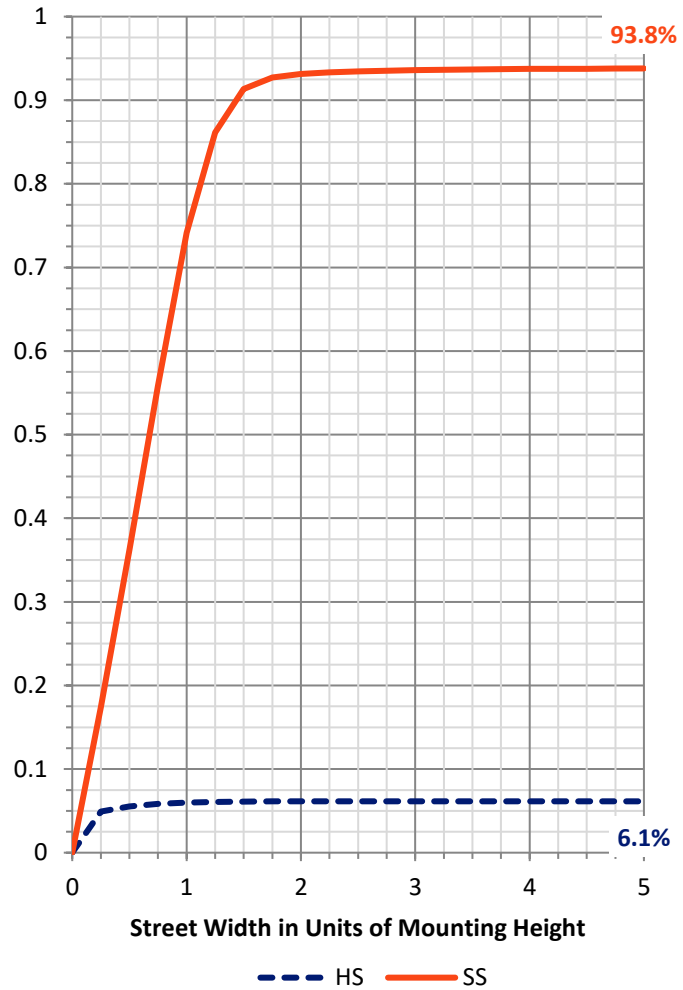
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1597.6	0.0	1597.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	24294.0	0.0	24294.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	25891.6	0.0	25891.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	591.1	2.3
10°-20°	1425.2	5.5
20°-30°	2373.4	9.2
30°-40°	4044.5	15.6
40°-50°	6602.0	25.5
50°-60°	6912.0	26.7
60°-70°	3486.3	13.5
70°-80°	440.4	1.7
80°-90°	16.7	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°	25891.6	100.0
0°-180°	25891.6	100.0

**Coefficient of Utilization**



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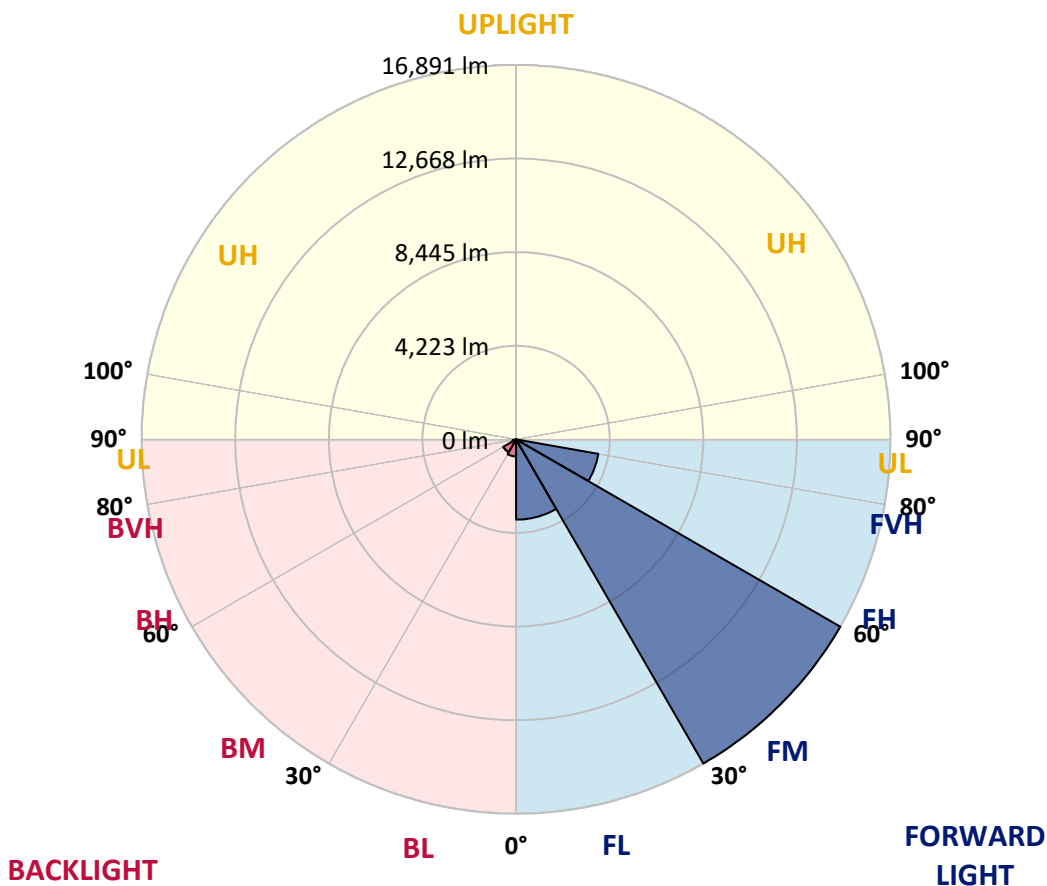
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3621.9	14.0			
FM (30°-60°)	16890.5	65.2			
FH (60°-80°)	3766.4	14.5			G2/5000
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	767.9	3.0	B2/1000		
BM (30°-60°)	668.0	2.6	B1/1000		
BH (60°-80°)	160.3	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	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°	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9
2.5°	7797.8	7760.2	7817.7	7751.3	7638.4	7543.2	7419.3	7375.0	7175.8	6987.7	6806.2
5°	8745.1	8756.2	8738.5	8645.5	8486.1	8309.1	8059.0	8003.6	7656.1	7297.6	6910.2
7.5°	8979.7	8973.1	9010.7	9046.1	9019.6	8931.0	8658.8	8603.5	8171.8	7634.0	7069.6
10°	8256.0	8260.4	8337.9	8576.9	8873.5	9181.2	9139.1	9108.1	8685.4	8014.7	7246.6
12.5°	7233.4	7273.2	7355.1	7696.0	8198.4	8897.8	9331.7	9362.7	9156.8	8433.0	7454.7
15°	6790.7	6799.5	6865.9	7071.8	7445.9	8309.1	9249.8	9336.1	9550.8	8853.6	7680.5
17.5°	6779.6	6790.7	6819.5	6910.2	7153.7	7846.5	8986.4	9136.9	9847.4	9305.1	7950.5
20°	7195.7	7189.1	7169.2	7120.5	7226.7	7693.8	8742.9	8908.9	10009.0	9745.6	8222.8
22.5°	7950.5	7941.7	7853.1	7651.7	7565.4	7833.2	8623.4	8773.9	10106.4	10137.3	8446.3
25°	8820.4	8882.3	8716.3	8410.9	8198.4	8189.6	8729.6	8835.9	10190.5	10484.8	8599.0
27.5°	9774.3	9794.3	9652.6	9309.5	9001.9	8760.6	9037.3	9117.0	10283.4	10794.7	8685.4
30°	10821.3	10814.6	10653.1	10254.6	9880.6	9533.1	9555.2	9586.2	10500.3	11148.9	8780.5
32.5°	12129.4	12158.2	11870.4	11328.1	10878.8	10398.5	10232.5	10236.9	10892.1	11604.8	8924.4
35°	13906.7	13835.9	13455.2	12682.7	11916.9	11399.0	11115.7	11091.3	11496.4	12217.9	9174.5
37.5°	15600.0	15606.6	15208.2	14358.3	13391.0	12574.3	12173.7	12107.3	12346.3	13067.9	9590.6
40°	16775.3	16797.4	16631.4	16186.5	15161.7	14006.3	13417.6	13349.0	13448.6	14143.6	10135.1
42.5°	17397.3	17459.2	17505.7	17609.8	16832.9	15794.8	14889.5	14882.9	14778.8	15369.8	10765.9
45°	17421.6	17514.6	17797.9	18508.4	18596.9	17835.5	16850.6	16702.3	16301.6	16682.3	11330.4
47.5°	16458.8	16673.5	17275.5	18683.2	19612.9	19865.2	18889.1	18798.3	17673.9	17720.4	11753.1
50°	14214.4	14438.0	15546.9	17786.8	19869.6	21476.6	21126.8	20938.7	18820.5	18406.6	11956.7
52.5°	11912.5	12116.1	12868.7	15653.1	18805.0	21983.4	23012.6	22789.1	19849.7	18645.6	11872.6
55°	8289.2	8561.4	9296.2	11700.0	16352.5	20996.2	23636.8	23590.3	20768.3	18495.1	11742.0
57.5°	4063.8	4333.8	5066.5	7213.4	12113.9	18331.3	22682.8	22928.5	21317.2	18333.5	11635.8
60°	1697.7	1808.3	2060.7	3165.2	6777.4	13853.6	20529.2	20870.1	20980.8	18114.4	11624.7
62.5°	985.0	1002.7	1029.2	1312.5	2636.2	7941.7	17029.8	17514.6	19212.2	17824.5	11449.9
65°	743.7	750.3	739.3	805.7	1089.0	3012.4	12304.3	12963.8	16036.0	16691.2	10759.3
67.5°	610.9	610.9	582.1	595.4	683.9	1128.8	6792.9	7713.7	11866.0	13718.6	8884.6
70°	486.9	498.0	484.7	467.0	489.2	624.2	2417.0	2996.9	6910.2	8101.0	5181.6
72.5°	369.6	369.6	391.8	378.5	363.0	391.8	843.3	947.3	2773.4	3377.6	1870.3
75°	285.5	294.4	309.9	296.6	274.5	232.4	405.1	429.4	836.7	785.8	418.3
77.5°	146.1	148.3	197.0	216.9	203.6	141.7	177.1	194.8	272.2	243.5	154.9
80°	88.5	93.0	110.7	170.4	135.0	75.3	73.0	77.5	128.4	110.7	64.2
82.5°	37.6	39.8	62.0	62.0	55.3	28.8	28.8	28.8	62.0	57.5	26.6
85°	0.0	0.0	11.1	8.9	8.9	11.1	11.1	11.1	15.5	22.1	13.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	6.6
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°	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9	6688.9
2.5°	6688.9	6547.2	6356.9	6184.2	5951.8	5821.2	5639.7	5491.4	5365.3	5325.4	5307.7
5°	6691.1	6447.6	6040.3	5633.1	5132.9	4738.9	4333.8	4012.9	3749.5	3665.4	3643.2
7.5°	6735.4	6376.8	5717.2	4977.9	4141.3	3450.7	2833.1	2279.8	2023.0	1936.7	1919.0
10°	6795.1	6317.0	5343.1	4192.2	2990.3	2102.7	1489.6	1135.5	967.3	874.3	887.6
12.5°	6872.6	6268.3	4929.2	3342.2	1978.8	1155.4	819.0	686.2	650.7	633.0	624.2
15°	6976.6	6210.8	4415.7	2498.9	1212.9	743.7	630.8	595.4	582.1	573.3	571.1
17.5°	7082.9	6144.4	3893.4	1757.4	805.7	617.5	566.6	548.9	540.1	533.4	531.2
20°	7195.7	6031.5	3280.2	1210.7	635.2	555.6	522.4	502.4	491.4	480.3	478.1
22.5°	7244.4	5850.0	2693.7	847.7	564.4	511.3	469.2	444.9	431.6	422.8	422.8
25°	7198.0	5555.6	2087.2	644.1	513.5	462.6	420.5	394.0	382.9	374.1	374.1
27.5°	7074.0	5177.1	1522.8	533.4	458.2	411.7	371.8	347.5	338.6	334.2	334.2
30°	6936.8	4699.0	1073.5	458.2	396.2	358.6	325.4	309.9	307.7	303.2	303.2
32.5°	6819.5	4251.9	739.3	402.8	349.7	312.1	290.0	283.3	285.5	281.1	283.3
35°	6755.3	3813.7	548.9	358.6	312.1	276.7	265.6	265.6	265.6	263.4	263.4
37.5°	6781.8	3382.1	447.1	327.6	278.9	252.3	241.3	245.7	250.1	250.1	250.1
40°	6914.6	2999.1	396.2	298.8	250.1	230.2	221.3	228.0	234.6	239.0	239.0
42.5°	7082.9	2689.3	358.6	274.5	230.2	208.1	203.6	210.3	216.9	221.3	221.3
45°	7189.1	2377.2	320.9	243.5	210.3	183.7	183.7	192.6	190.4	192.6	192.6
47.5°	7237.8	2129.3	283.3	210.3	179.3	159.4	161.6	166.0	161.6	166.0	166.0
50°	7118.3	1879.2	250.1	174.9	148.3	139.4	143.9	141.7	141.7	150.5	150.5
52.5°	6899.1	1693.2	221.3	148.3	126.2	123.9	128.4	119.5	121.7	121.7	119.5
55°	6737.6	1587.0	197.0	128.4	108.5	110.7	108.5	93.0	84.1	75.3	73.0
57.5°	6657.9	1544.9	179.3	115.1	97.4	97.4	88.5	64.2	48.7	37.6	33.2
60°	6640.2	1494.0	161.6	99.6	86.3	81.9	64.2	37.6	24.3	17.7	15.5
62.5°	6472.0	1370.1	146.1	79.7	75.3	66.4	39.8	22.1	13.3	8.9	6.6
65°	5920.8	1126.6	130.6	62.0	57.5	48.7	24.3	13.3	6.6	2.2	0.0
67.5°	4710.1	799.0	115.1	46.5	39.8	31.0	15.5	8.9	2.2	0.0	0.0
70°	2715.8	431.6	95.2	33.2	26.6	19.9	11.1	4.4	0.0	0.0	0.0
72.5°	907.5	201.4	73.0	22.1	19.9	15.5	6.6	2.2	0.0	0.0	0.0
75°	199.2	119.5	48.7	15.5	13.3	11.1	4.4	0.0	0.0	0.0	0.0
77.5°	75.3	84.1	24.3	11.1	8.9	6.6	2.2	0.0	0.0	0.0	0.0
80°	28.8	55.3	11.1	6.6	6.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	22.1	6.6	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	11.1	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	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)