

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: P638544

Luminaire Tested: GWS-SA4F-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638544  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-722-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

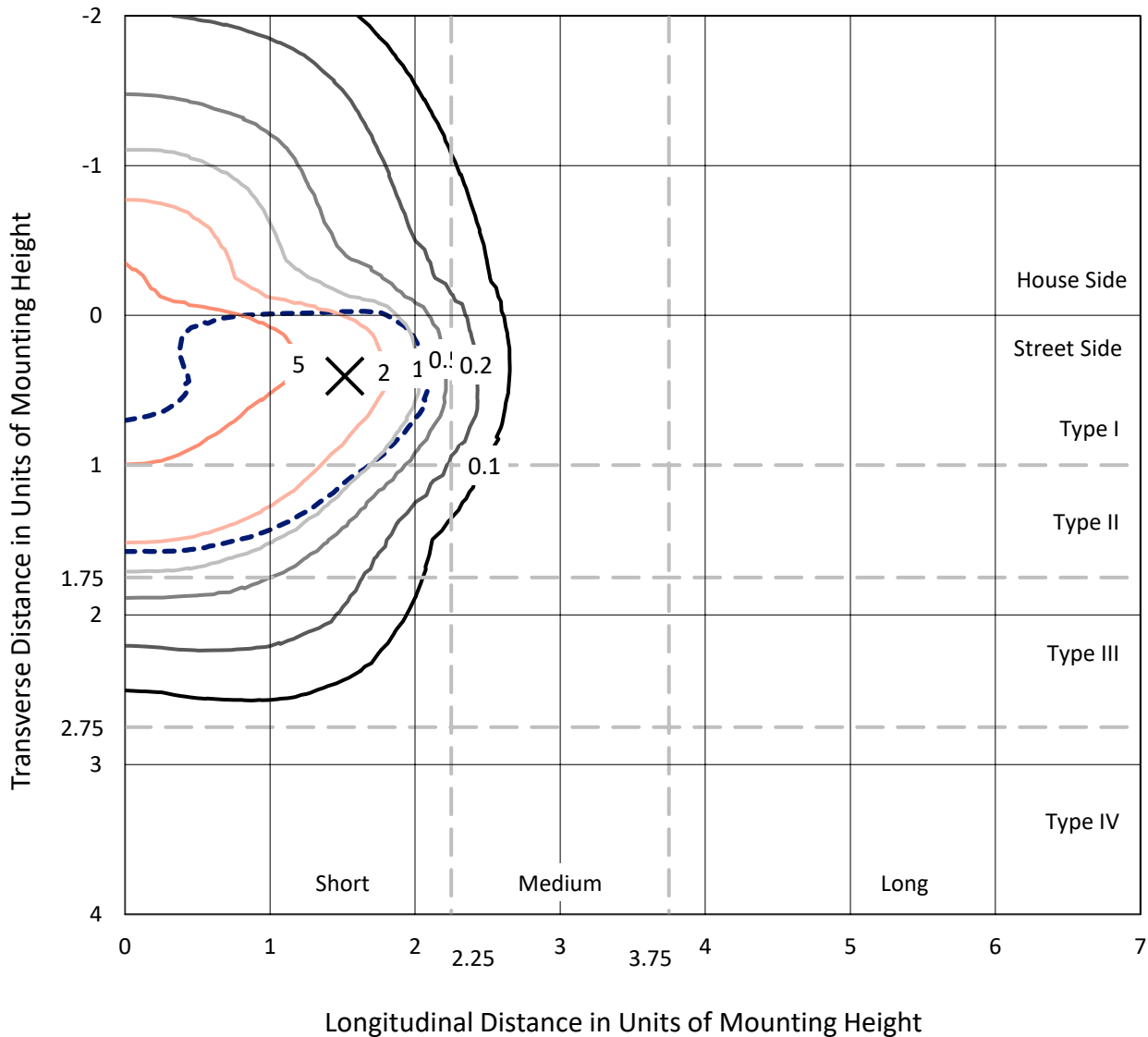
Lumens per Lamp: N/A  
Luminaire Lumens: 20895 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

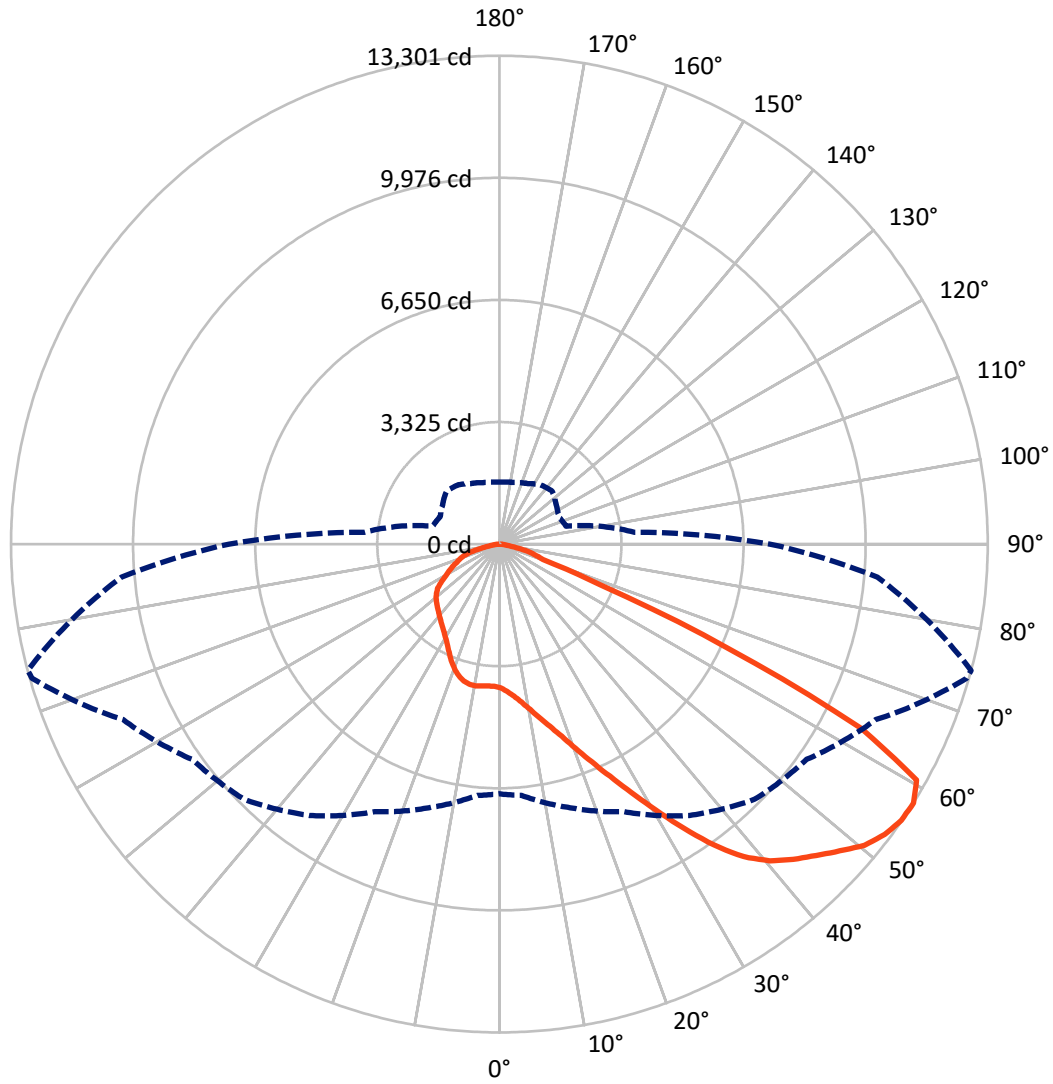
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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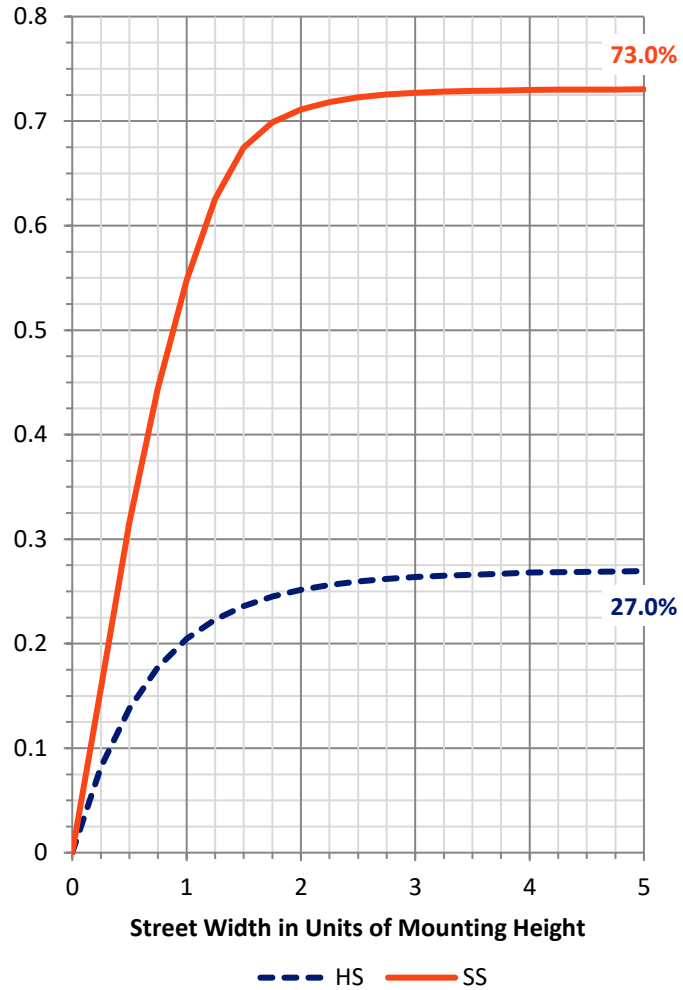
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5652.5	0.0	5652.5
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	15242.5	0.0	15242.5
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	20895.0	0.0	20895.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	391.6	1.9
10°-20°	1246.7	6.0
20°-30°	2211.0	10.6
30°-40°	3384.7	16.2
40°-50°	4712.9	22.6
50°-60°	5400.1	25.8
60°-70°	2774.7	13.3
70°-80°	698.5	3.3
80°-90°	74.7	0.4
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°	20895.0	100.0
0°-180°	20895.0	100.0

**Coefficient of Utilization**



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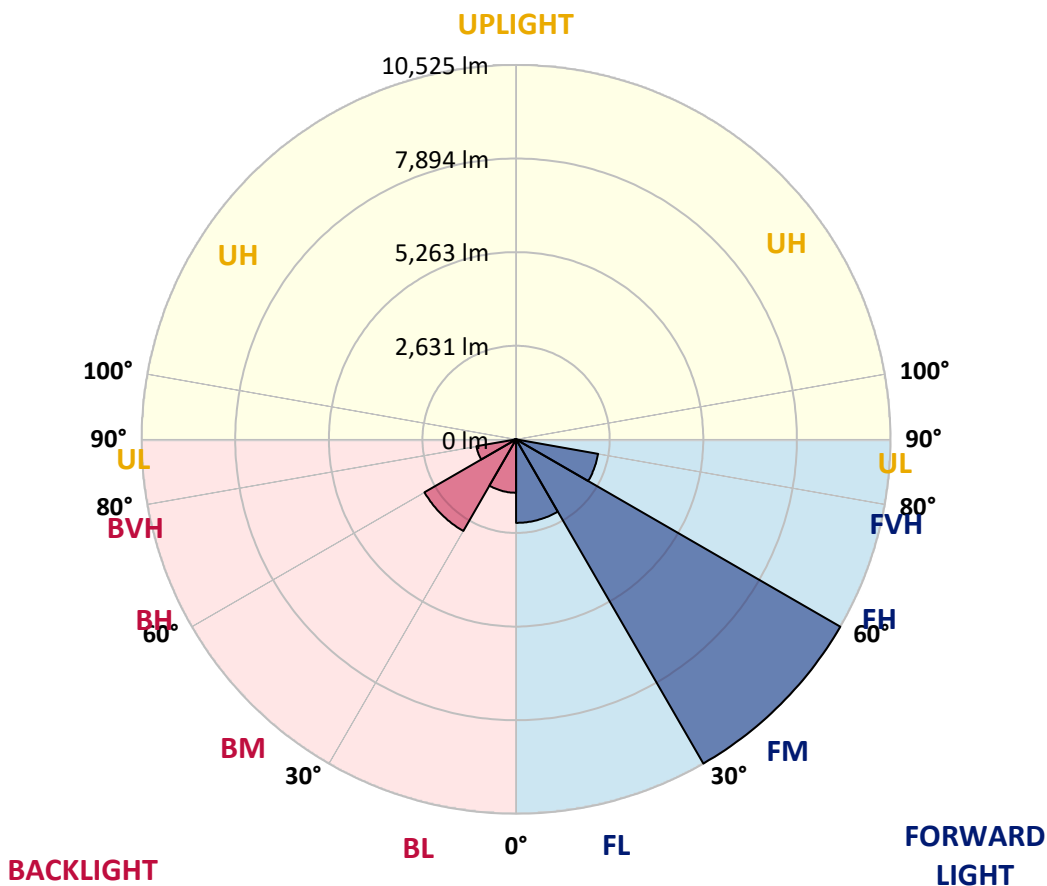
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2347.7	11.2			
FM (30°-60°)	10525.0	50.4			
FH (60°-80°)	2342.1	11.2			G2/5000
FVH (80°-90°)	27.6	0.1			G1/100
BL (0°-30°)	1501.7	7.2	B3/2500		
BM (30°-60°)	2972.7	14.2	B3/5000		
BH (60°-80°)	1131.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	47.0	0.2			G1/100
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°	65°	74°	75°	85°
0°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	4204.2	4215.0	4204.2	4222.2	4186.2	4170.1	4130.5	4071.2	4024.5	4017.3	3965.2
5°	4531.2	4554.5	4540.2	4533.0	4484.5	4448.5	4389.2	4270.7	4173.6	4159.3	4056.9
7.5°	4741.4	4757.6	4757.6	4763.0	4745.0	4703.7	4640.8	4500.6	4364.1	4342.5	4188.0
10°	4811.5	4824.0	4847.4	4892.3	4928.2	4940.8	4899.5	4764.8	4597.7	4576.1	4360.5
12.5°	4827.6	4842.0	4877.9	4960.6	5059.4	5149.2	5156.4	5057.6	4870.8	4847.4	4559.9
15°	4858.2	4872.5	4921.1	5023.5	5169.0	5341.5	5447.5	5379.2	5172.6	5147.4	4786.3
17.5°	4854.6	4870.8	4942.6	5079.2	5275.0	5524.7	5729.6	5758.3	5544.5	5501.4	5043.2
20°	4845.6	4860.0	4937.2	5104.3	5346.9	5690.0	6060.1	6209.3	5979.3	5939.8	5343.3
22.5°	4917.5	4933.6	4992.9	5131.3	5384.6	5817.6	6365.6	6724.9	6494.9	6439.2	5688.2
25°	5079.2	5102.5	5138.5	5233.7	5452.9	5930.8	6678.2	7308.8	7073.5	7007.0	6063.7
27.5°	5328.9	5357.6	5408.0	5452.9	5605.6	6074.5	6989.0	7962.8	7727.4	7657.4	6460.8
30°	5634.3	5672.1	5736.7	5767.3	5871.5	6286.5	7326.8	8636.6	8500.0	8403.0	6908.2
32.5°	6056.6	6108.7	6169.7	6178.7	6241.6	6608.1	7661.0	9304.9	9303.1	9234.8	7416.6
35°	6606.3	6662.0	6674.6	6687.2	6717.7	7050.1	8065.2	9914.0	10149.3	10070.3	7970.0
37.5°	7206.4	7287.3	7307.0	7251.3	7294.5	7581.9	8519.8	10402.7	10886.0	10801.5	8505.4
40°	7847.8	7880.2	7934.1	7846.0	7899.9	8191.0	8965.3	10715.3	11435.8	11345.9	8927.6
42.5°	8307.8	8367.1	8447.9	8415.6	8446.1	8712.0	9278.0	10866.2	11827.4	11737.6	9231.3
45°	8807.2	8825.2	8877.3	8870.1	8888.1	9136.0	9502.6	10932.7	12177.8	12096.9	9490.0
47.5°	9242.0	9269.0	9303.1	9263.6	9224.1	9385.8	9685.8	10990.2	12582.0	12485.0	9761.3
50°	9660.7	9684.0	9725.3	9610.4	9463.0	9504.3	9775.6	11069.2	12961.1	12892.9	9975.1
52.5°	9737.9	9763.1	9957.1	9980.5	9791.8	9646.3	9933.7	11243.5	13183.9	13140.8	10052.3
55°	8765.9	8810.8	9197.1	9640.9	10106.2	10059.5	10187.1	11335.1	13271.9	13282.7	10190.7
57.5°	6804.0	6868.6	7432.8	8041.9	9021.0	9831.3	10219.4	11311.8	13241.4	13300.7	10332.6
60°	4462.9	4500.6	5169.0	5851.7	6866.8	7988.0	9146.8	10891.4	12970.1	13054.6	10296.7
62.5°	2695.0	2738.1	3275.3	3792.8	4391.0	5140.3	6203.9	8753.3	10871.6	11060.3	8246.7
65°	1881.1	1938.6	2409.3	2835.1	3041.8	2887.2	3142.4	4888.7	6773.4	6852.5	5039.6
67.5°	1363.7	1403.2	1789.5	2296.1	2524.3	2039.2	1554.1	2165.0	2950.1	2978.9	2078.7
70°	892.9	937.9	1288.2	1748.2	2060.8	1652.9	1162.4	1171.4	1241.5	1255.9	1207.4
72.5°	490.5	517.4	795.9	1160.6	1218.1	988.2	907.3	973.8	1022.3	1022.3	1034.9
75°	253.3	276.7	325.2	382.7	461.7	540.8	654.0	752.8	804.9	808.5	803.1
77.5°	129.4	138.3	174.3	188.6	206.6	240.8	312.6	400.7	447.4	465.3	461.7
80°	61.1	64.7	73.7	86.2	106.0	134.7	168.9	201.2	230.0	233.6	253.3
82.5°	32.3	35.9	39.5	46.7	57.5	71.9	98.8	118.6	136.5	140.1	156.3
85°	12.6	14.4	16.2	18.0	25.2	30.5	41.3	55.7	68.3	68.3	80.8
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	7.2	9.0	12.6	12.6	21.6
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°	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1	3913.1
2.5°	3952.7	3900.6	3877.2	3839.5	3808.9	3774.8	3747.8	3728.1	3715.5	3708.3	3701.1
5°	4017.3	3938.3	3875.4	3799.9	3747.8	3697.5	3656.2	3627.5	3613.1	3602.3	3595.1
7.5°	4118.0	4011.9	3893.4	3776.6	3685.0	3604.1	3552.0	3521.5	3501.7	3494.5	3489.1
10°	4256.3	4109.0	3913.1	3728.1	3591.5	3503.5	3467.6	3453.2	3455.0	3451.4	3449.6
12.5°	4412.6	4211.4	3907.7	3641.8	3490.9	3438.8	3440.6	3464.0	3490.9	3498.1	3499.9
15°	4581.5	4312.0	3855.6	3530.4	3411.9	3417.3	3464.0	3519.7	3570.0	3589.7	3593.3
17.5°	4764.8	4396.4	3760.4	3408.3	3347.2	3404.7	3490.9	3582.5	3656.2	3688.5	3697.5
20°	4969.6	4468.3	3625.7	3287.9	3286.1	3381.3	3507.1	3627.5	3720.9	3764.0	3771.2
22.5°	5187.0	4513.2	3460.4	3176.5	3223.2	3350.8	3494.5	3620.3	3719.1	3762.2	3771.2
25°	5406.2	4527.6	3278.9	3074.1	3158.5	3302.3	3433.4	3534.0	3627.5	3665.2	3672.4
27.5°	5611.0	4486.3	3106.4	2986.1	3099.2	3230.4	3318.4	3372.3	3437.0	3465.8	3471.2
30°	5819.4	4403.6	2960.9	2916.0	3032.8	3131.6	3171.1	3174.7	3199.9	3199.9	3203.5
32.5°	6029.6	4281.4	2833.3	2847.7	2950.1	3014.8	3020.2	2978.9	2948.3	2898.0	2896.2
35°	6272.2	4157.5	2729.1	2770.5	2853.1	2892.6	2876.5	2797.4	2723.7	2641.1	2637.5
37.5°	6496.7	4029.9	2641.1	2691.4	2743.5	2772.3	2734.5	2639.3	2578.2	2493.8	2481.2
40°	6681.8	3914.9	2556.7	2608.8	2633.9	2659.1	2598.0	2520.7	2529.7	2483.0	2481.2
42.5°	6789.6	3803.5	2477.6	2517.1	2533.3	2551.3	2497.4	2439.9	2488.4	2452.4	2454.2
45°	6868.6	3706.5	2405.7	2420.1	2459.6	2486.6	2436.3	2371.6	2382.4	2244.0	2211.7
47.5°	6958.5	3652.6	2337.5	2323.1	2393.2	2439.9	2362.6	2269.2	2204.5	2068.0	2055.4
50°	7053.7	3632.9	2265.6	2226.1	2310.5	2355.4	2265.6	2148.8	2064.4	1990.7	1983.5
52.5°	7086.0	3631.1	2175.8	2109.3	2193.7	2256.6	2181.1	2062.6	1962.0	1890.1	1886.5
55°	7213.6	3683.2	2060.8	1949.4	2028.4	2157.8	2102.1	1931.4	1850.6	1818.2	1814.6
57.5°	7362.7	3692.1	1879.3	1775.1	1884.7	2037.4	1967.3	1820.0	1732.0	1692.5	1688.9
60°	7301.6	3471.2	1685.3	1642.1	1762.5	1924.2	1859.5	1732.0	1629.6	1591.8	1588.3
62.5°	5564.3	2450.6	1543.3	1527.2	1631.4	1760.7	1748.2	1615.2	1518.2	1491.2	1487.6
65°	3347.2	1721.2	1406.8	1405.0	1478.7	1602.6	1618.8	1511.0	1408.6	1370.9	1370.9
67.5°	1654.7	1317.0	1252.3	1243.3	1290.0	1378.0	1446.3	1358.3	1272.0	1236.1	1230.7
70°	1169.6	1160.6	1139.1	1113.9	1122.9	1158.8	1187.6	1113.9	1022.3	986.4	979.2
72.5°	1011.5	1013.3	998.9	979.2	972.0	946.8	921.7	867.8	812.1	774.4	778.0
75°	785.1	788.7	797.7	790.5	770.8	743.8	716.9	648.6	603.7	567.7	560.6
77.5°	458.1	476.1	504.9	497.7	501.3	463.5	452.8	386.3	345.0	319.8	314.4
80°	258.7	269.5	282.1	291.1	280.3	264.1	240.8	204.8	192.2	174.3	170.7
82.5°	156.3	167.1	172.5	179.7	176.1	154.5	136.5	113.2	102.4	93.4	91.6
85°	79.1	86.2	91.6	95.2	84.4	70.1	62.9	50.3	43.1	37.7	37.7
87.5°	19.8	21.6	25.2	21.6	19.8	9.0	7.2	1.8	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)