

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: P638533

Luminaire Tested: GWS-SA4F-722-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638533  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-722-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

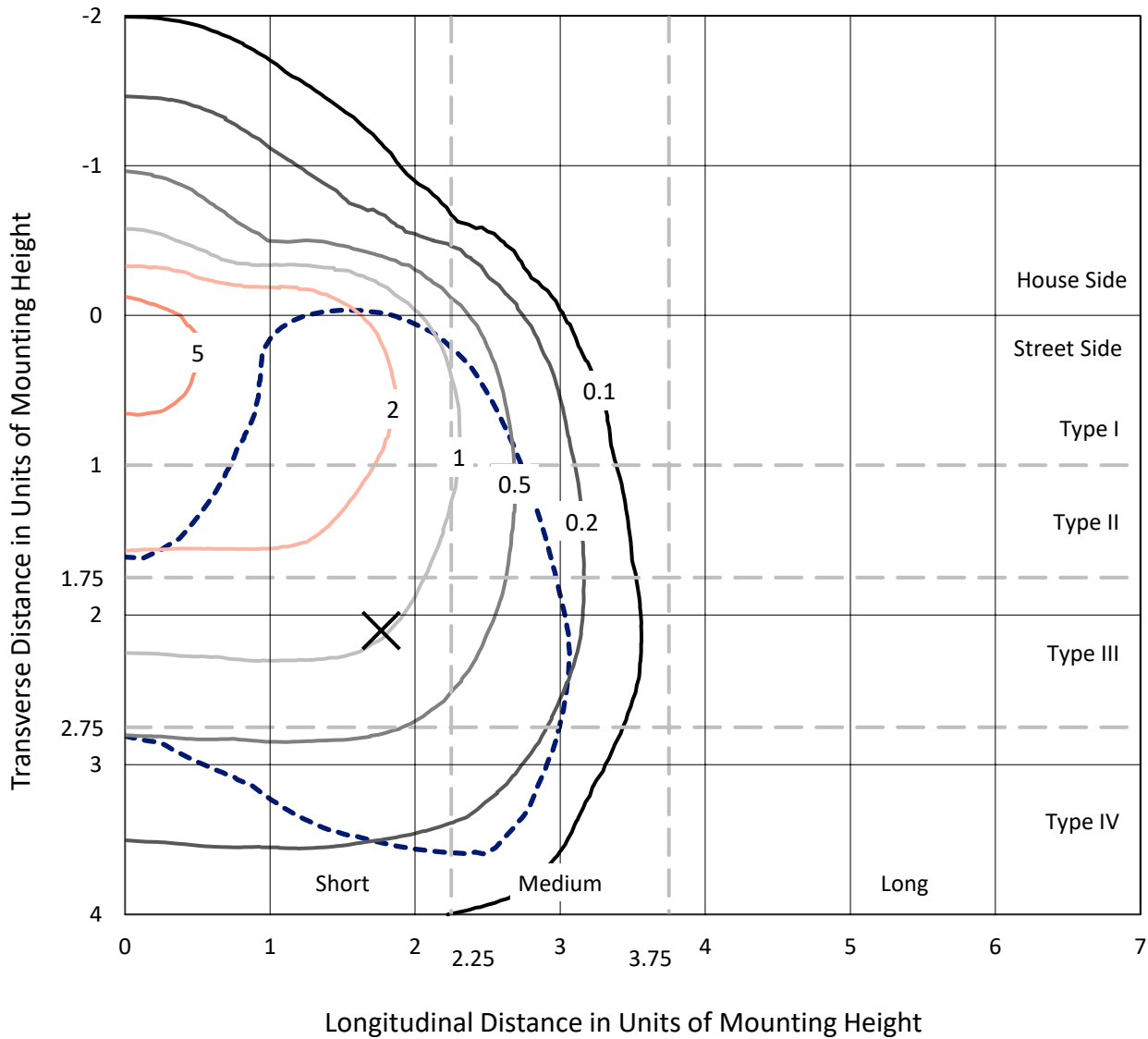
Lumens per Lamp: N/A  
Luminaire Lumens: 24069.7 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

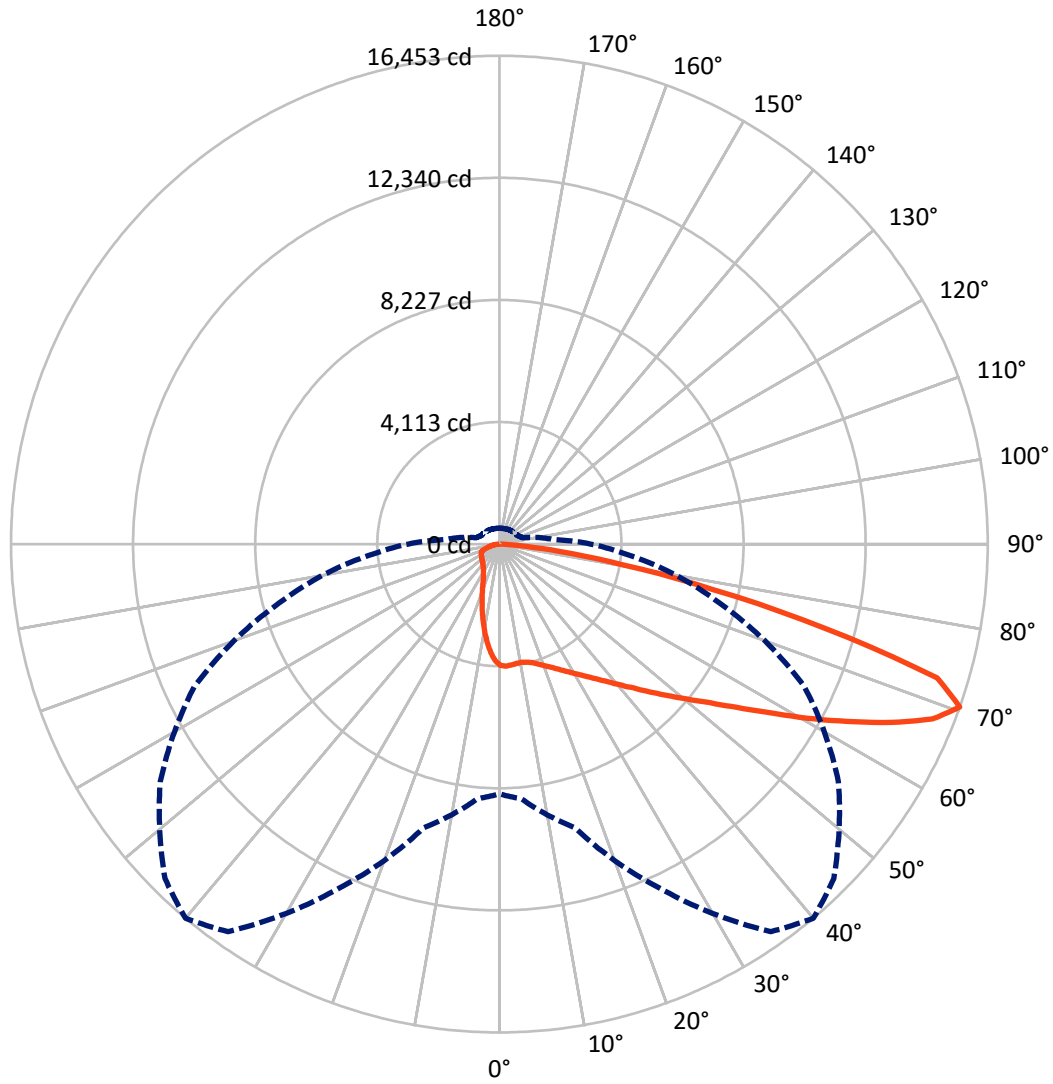
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical



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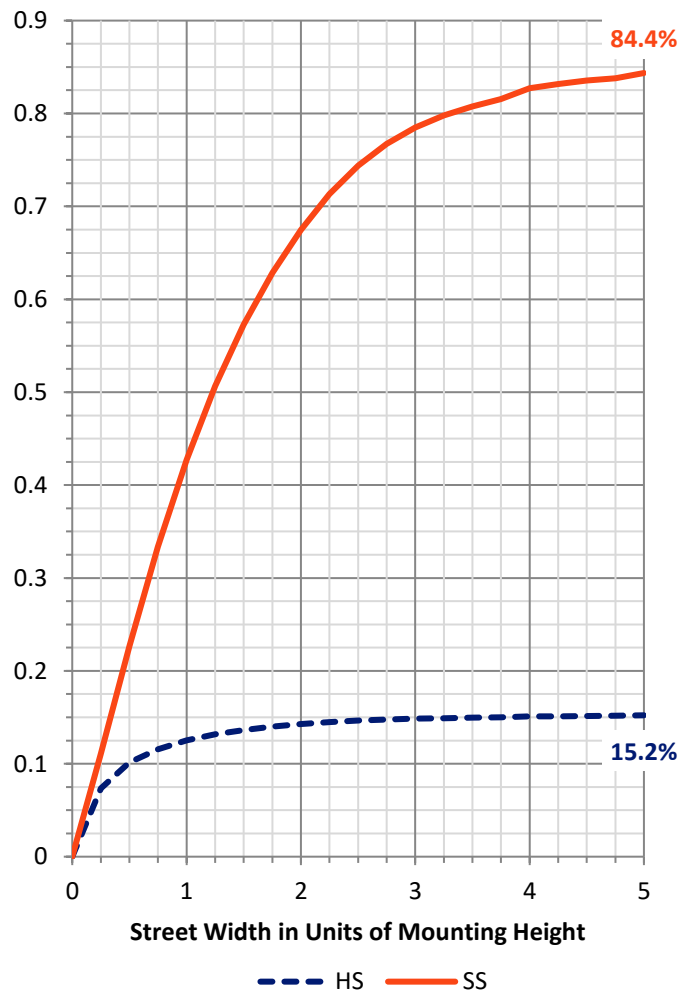
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3707.3	0.0	3707.3
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	20362.4	0.0	20362.4
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	24069.7	0.0	24069.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.1	1.5
10°-20°	941.2	3.9
20°-30°	1477.8	6.1
30°-40°	2222.0	9.2
40°-50°	3429.6	14.2
50°-60°	5093.3	21.2
60°-70°	6420.0	26.7
70°-80°	3712.7	15.4
80°-90°	412.0	1.7
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°	24069.7	100.0
0°-180°	24069.7	100.0

**Coefficient of Utilization**



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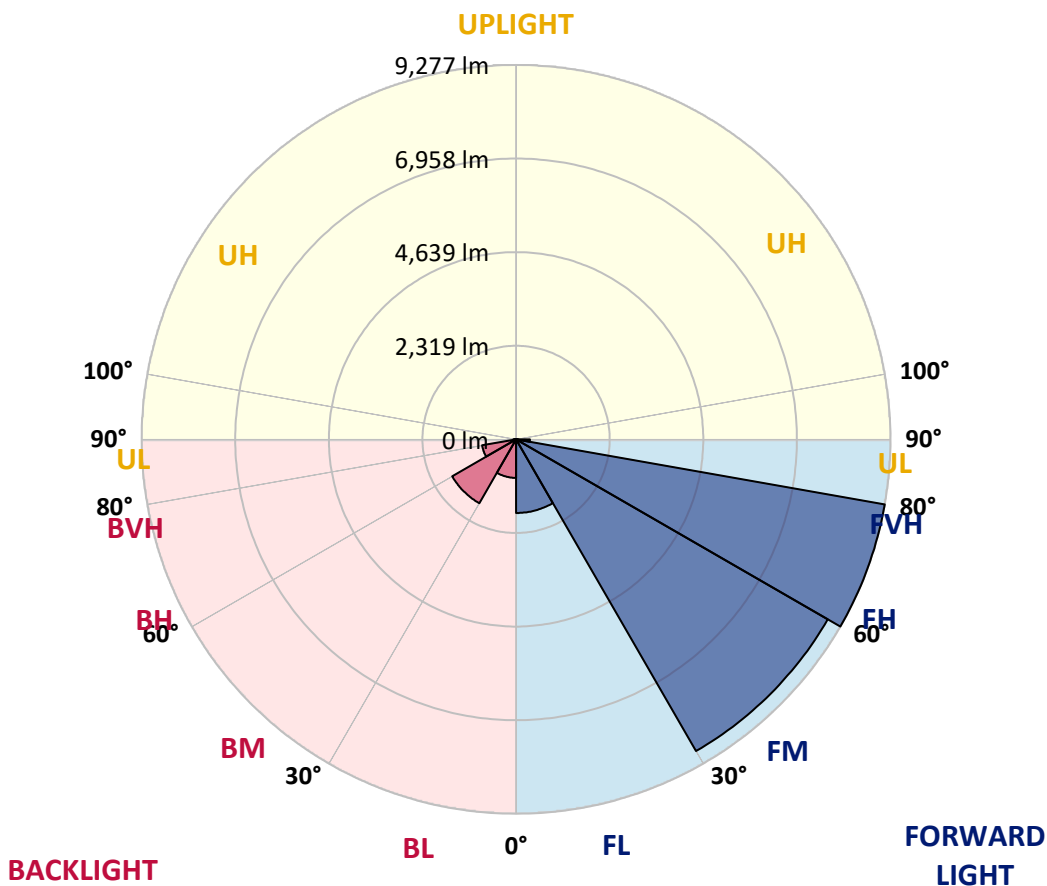
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1824.7	7.6			
FM (30°-60°)	8917.5	37.0			
FH (60°-80°)	9277.0	38.5			G4/12000
FVH (80°-90°)	343.2	1.4			G3/500
BL (0°-30°)	955.4	4.0	B2/1000		
BM (30°-60°)	1827.4	7.6	B2/2500		
BH (60°-80°)	855.7	3.6	B2/1000		G2/1000
BVH (80°-90°)	68.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3
2.5°	4112.5	4119.7	4125.0	4132.2	4128.6	4117.9	4126.8	4126.8	4107.1	4085.5	4065.8
5°	4117.9	4126.8	4125.0	4123.2	4108.9	4090.9	4090.9	4080.1	4046.0	4011.9	3979.5
7.5°	4107.1	4105.3	4103.5	4098.1	4081.9	4062.2	4058.6	4037.0	3992.1	3945.4	3898.7
10°	4058.6	4056.8	4062.2	4074.7	4071.1	4053.2	4053.2	4033.4	3981.3	3923.8	3862.7
12.5°	4019.0	4019.0	4040.6	4074.7	4087.3	4080.1	4081.9	4067.5	4008.3	3940.0	3868.1
15°	4024.4	4026.2	4072.9	4128.6	4152.0	4146.6	4148.4	4132.2	4065.8	3997.5	3900.5
17.5°	4060.4	4069.3	4150.2	4227.4	4258.0	4250.8	4238.2	4211.3	4135.8	4058.6	3940.0
20°	4135.8	4150.2	4254.4	4351.4	4387.3	4371.2	4349.6	4295.7	4213.1	4128.6	3983.1
22.5°	4284.9	4293.9	4408.9	4504.1	4532.9	4513.1	4470.0	4392.7	4297.5	4209.5	4035.2
25°	4495.1	4505.9	4615.5	4703.6	4696.4	4673.0	4613.7	4518.5	4405.3	4311.9	4110.7
27.5°	4744.9	4762.8	4870.6	4940.7	4894.0	4859.9	4793.4	4678.4	4550.8	4466.4	4225.7
30°	5018.0	5025.1	5116.8	5186.8	5115.0	5068.3	4987.4	4863.5	4748.5	4685.6	4398.1
32.5°	5282.1	5289.3	5368.3	5407.8	5332.4	5298.2	5228.2	5097.0	5016.2	4982.0	4655.0
35°	5560.5	5558.7	5623.4	5657.6	5580.3	5565.9	5494.1	5393.5	5379.1	5424.0	5030.5
37.5°	5839.0	5822.8	5857.0	5901.9	5858.8	5873.2	5826.4	5792.3	5848.0	5964.8	5530.0
40°	6061.8	6061.8	6097.7	6153.4	6167.8	6230.7	6203.7	6248.6	6428.3	6706.8	6148.0
42.5°	6259.4	6261.2	6336.7	6422.9	6527.1	6624.1	6645.7	6762.5	7134.4	7571.0	6924.2
45°	6466.0	6467.8	6570.2	6696.0	6917.0	7102.0	7145.2	7407.5	7939.3	8471.1	7766.8
47.5°	6705.0	6685.2	6827.2	7037.4	7351.8	7617.7	7729.1	8101.0	8772.9	9426.9	8560.9
50°	6974.5	6933.2	7091.3	7454.2	7842.2	8207.0	8393.8	8819.6	9667.6	10309.0	9308.3
52.5°	7278.1	7254.8	7420.0	7862.0	8454.9	8875.3	9128.6	9687.4	10537.2	11187.6	9901.2
55°	7655.4	7599.7	7838.7	8401.0	9173.5	9708.9	10009.0	10546.2	11487.6	11985.3	10353.9
57.5°	8068.6	8007.5	8327.3	9074.7	10107.8	10695.3	11070.8	11512.7	12382.3	12596.1	10619.8
60°	8514.2	8494.4	8873.5	9865.2	11221.7	11904.4	12175.7	12576.3	13160.2	12950.0	10553.3
62.5°	8922.0	8914.8	9466.4	10722.2	12402.1	13153.1	13368.7	13474.7	13720.8	12926.7	10025.1
65°	9351.4	9412.5	10158.1	11715.8	13754.9	14491.5	14581.4	14311.9	13909.4	12314.0	8943.6
67.5°	9405.3	9523.9	10592.9	12646.4	15037.7	15733.0	15661.1	14629.9	13352.5	10609.0	7010.4
70°	8411.8	8618.4	9899.4	12788.3	15941.4	16453.4	15934.2	13945.4	11331.3	7685.9	4408.9
72.5°	7028.4	7206.2	8338.1	10905.5	14775.4	15427.6	14725.1	11803.8	8007.5	4408.9	2245.8
75°	5470.7	5677.3	6721.2	8668.7	11061.8	11322.3	10970.2	8232.1	4401.7	1818.2	1020.5
77.5°	3338.1	3487.2	4299.3	5873.2	7739.8	7350.0	6228.9	4615.5	1931.4	871.4	630.6
80°	1476.8	1568.4	2118.2	3154.9	4471.8	4227.4	3332.7	1970.9	1056.4	553.4	440.2
82.5°	792.3	851.6	1043.8	1248.7	1963.7	2053.5	1665.5	1135.5	567.7	316.2	251.5
85°	348.5	382.7	474.3	452.7	645.0	634.2	639.6	779.7	271.3	145.5	163.5
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	19.8	104.2	26.9	43.1	37.7
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°	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3	4087.3
2.5°	4044.2	4011.9	4002.9	3992.1	3972.3	3938.2	3913.0	3884.3	3871.7	3857.3	3859.1
5°	3943.6	3904.1	3866.3	3817.8	3756.7	3688.5	3641.7	3587.9	3559.1	3532.2	3539.3
7.5°	3857.3	3796.3	3719.0	3616.6	3507.0	3384.8	3286.0	3208.8	3156.7	3120.7	3138.7
10°	3803.4	3731.6	3596.8	3429.7	3244.7	3057.8	2915.9	2783.0	2700.3	2635.6	2632.0
12.5°	3792.7	3699.2	3503.4	3260.9	2993.2	2743.4	2535.0	2355.4	2245.8	2164.9	2195.5
15°	3803.4	3684.9	3422.6	3104.6	2766.8	2429.0	2170.3	1963.7	1832.6	1758.9	1753.5
17.5°	3816.0	3670.5	3330.9	2935.7	2529.6	2143.4	1843.3	1624.1	1489.4	1415.7	1417.5
20°	3826.8	3648.9	3223.1	2750.6	2288.9	1877.5	1566.7	1358.2	1237.9	1184.0	1193.0
22.5°	3844.8	3627.4	3108.2	2553.0	2042.8	1620.6	1347.5	1178.6	1106.7	1070.8	1072.6
25°	3878.9	3614.8	2989.6	2337.4	1800.2	1415.7	1196.5	1083.4	1038.4	1016.9	1015.1
27.5°	3949.0	3625.6	2865.6	2129.0	1581.0	1259.4	1099.5	1025.9	995.3	981.0	979.2
30°	4065.8	3668.7	2757.8	1917.0	1392.4	1137.3	1033.1	988.1	970.2	957.6	955.8
32.5°	4243.6	3749.5	2641.0	1719.4	1239.7	1047.4	981.0	957.6	945.0	937.8	937.8
35°	4513.1	3896.9	2526.0	1546.9	1121.1	977.4	939.6	930.6	919.9	916.3	919.9
37.5°	4901.2	4132.2	2421.8	1396.0	1036.6	923.5	894.7	898.3	889.3	894.7	900.1
40°	5393.5	4446.6	2333.8	1272.0	973.8	883.9	855.2	867.8	862.4	867.8	876.8
42.5°	6016.9	4836.5	2267.3	1175.0	928.9	851.6	824.6	837.2	833.6	840.8	849.8
45°	6712.2	5350.3	2236.8	1106.7	896.5	828.2	799.5	808.5	804.9	810.3	819.3
47.5°	7378.7	5817.5	2263.7	1067.2	869.6	808.5	777.9	781.5	779.7	777.9	783.3
50°	7953.6	6189.4	2341.0	1054.6	851.6	788.7	760.0	761.8	756.4	745.6	749.2
52.5°	8422.6	6487.6	2387.7	1054.6	842.6	767.2	740.2	742.0	731.2	716.9	718.6
55°	8731.6	6608.0	2350.0	1052.8	839.0	749.2	720.4	722.2	711.5	693.5	695.3
57.5°	8819.6	6491.2	2191.9	1033.1	835.4	734.8	700.7	704.3	697.1	677.3	677.3
60°	8573.5	6063.6	1902.6	988.1	826.4	725.8	686.3	691.7	688.1	668.3	668.3
62.5°	7928.5	5303.6	1557.7	919.9	801.3	715.1	673.7	684.5	693.5	682.7	680.9
65°	6721.2	4249.0	1266.6	844.4	769.0	697.1	655.8	682.7	702.5	716.9	716.9
67.5°	5043.1	3041.7	1033.1	765.4	720.4	661.2	632.4	657.6	671.9	680.9	686.3
70°	3074.0	1789.4	813.9	673.7	650.4	607.3	585.7	560.5	540.8	537.2	539.0
72.5°	1503.8	1024.1	661.2	573.1	555.2	515.6	467.1	456.3	447.4	442.0	440.2
75°	828.2	713.3	546.2	476.1	443.8	395.3	384.5	366.5	362.9	355.7	357.5
77.5°	585.7	562.3	451.0	386.3	337.8	312.6	318.0	305.4	305.4	300.0	298.2
80°	440.2	442.0	346.7	282.1	249.7	240.7	246.1	246.1	242.5	240.7	239.0
82.5°	278.5	314.4	233.6	181.5	177.9	179.7	177.9	176.1	179.7	174.3	172.5
85°	192.2	226.4	141.9	107.8	107.8	106.0	109.6	107.8	111.4	106.0	106.0
87.5°	43.1	100.6	52.1	32.3	34.1	32.3	34.1	35.9	39.5	41.3	41.3
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)