

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: P640513

Luminaire Tested: GWS-SA5E-722-U-SL4-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640513  
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-SA5E-722-U-SL4-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (80) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

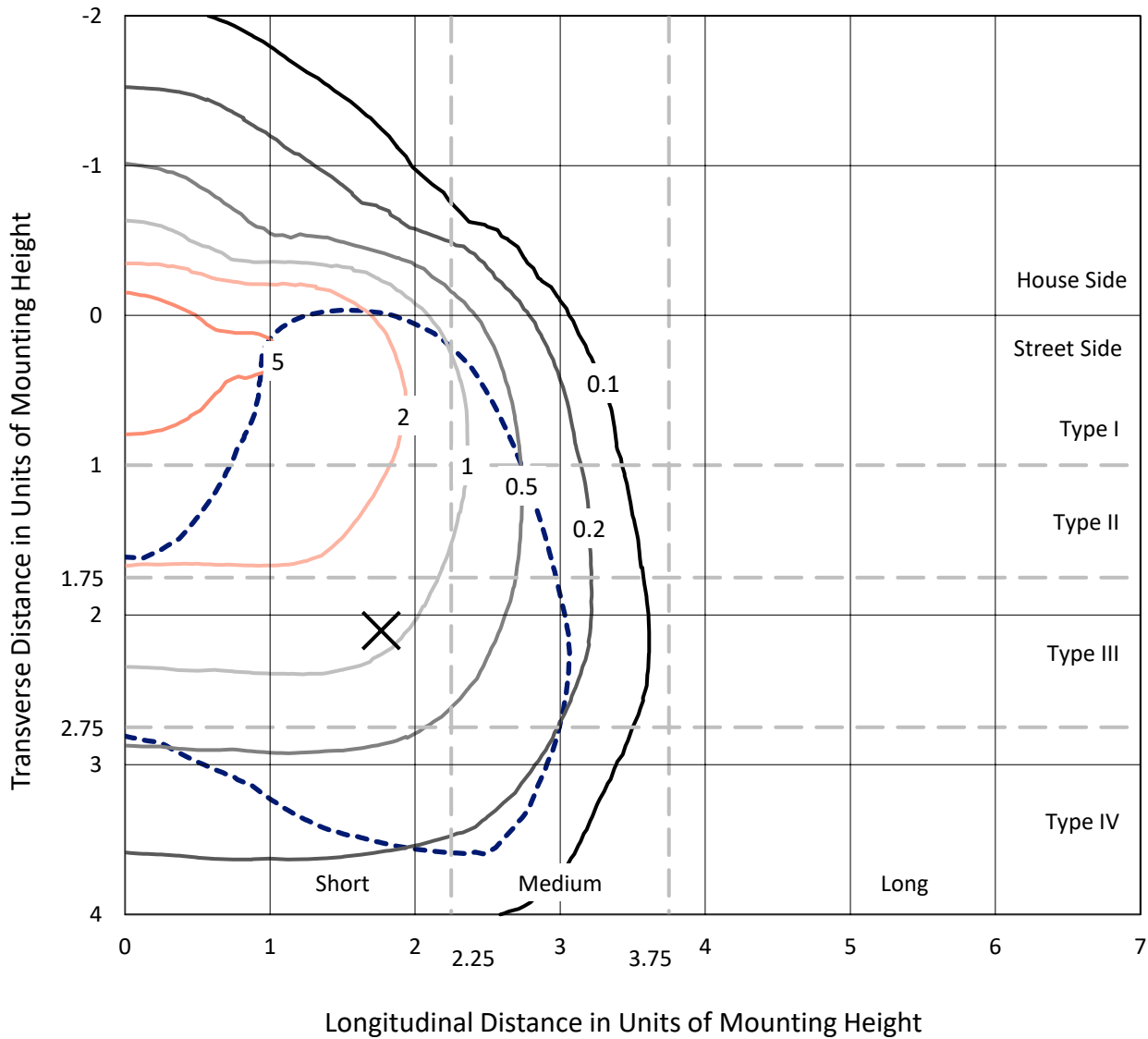
Lumens per Lamp: N/A  
Luminaire Lumens: 26557 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

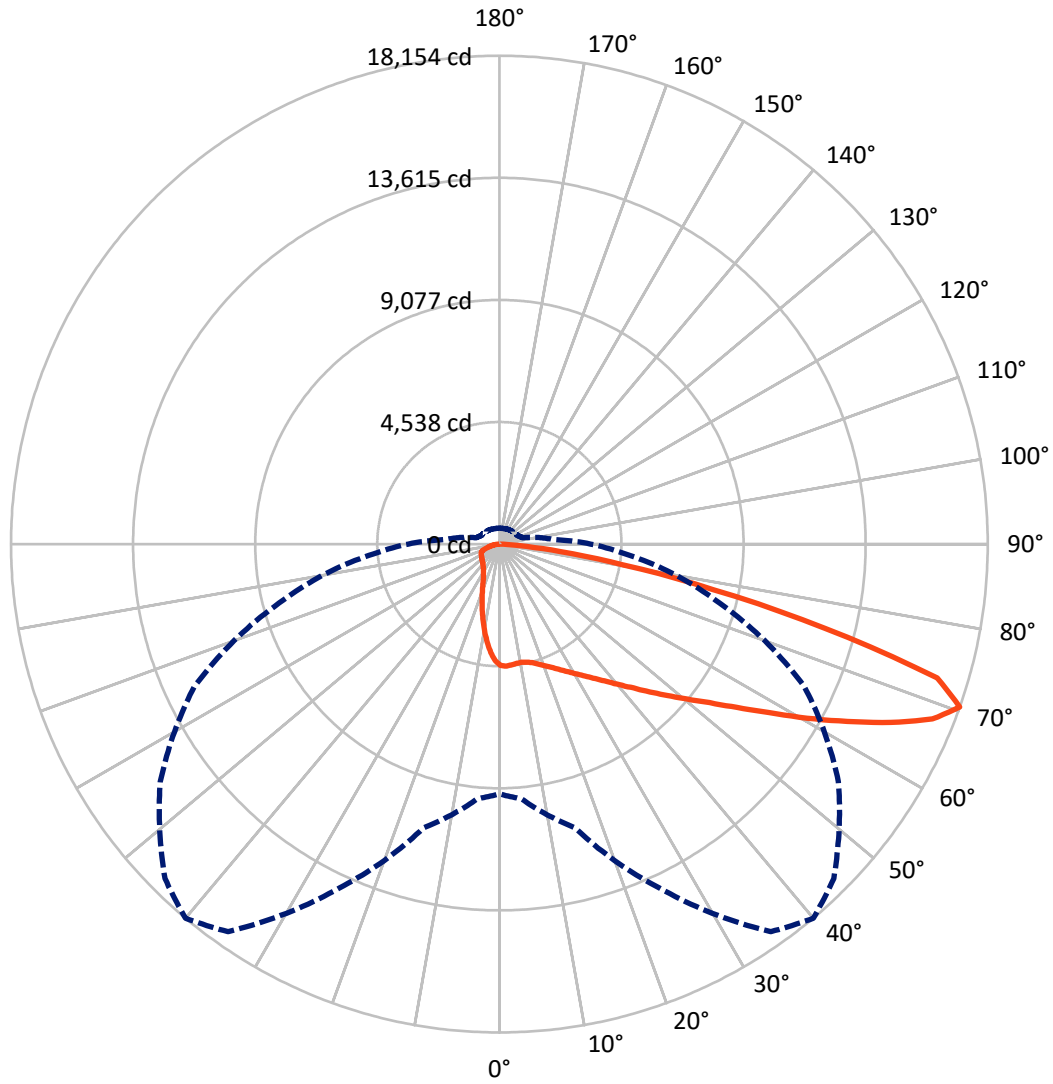
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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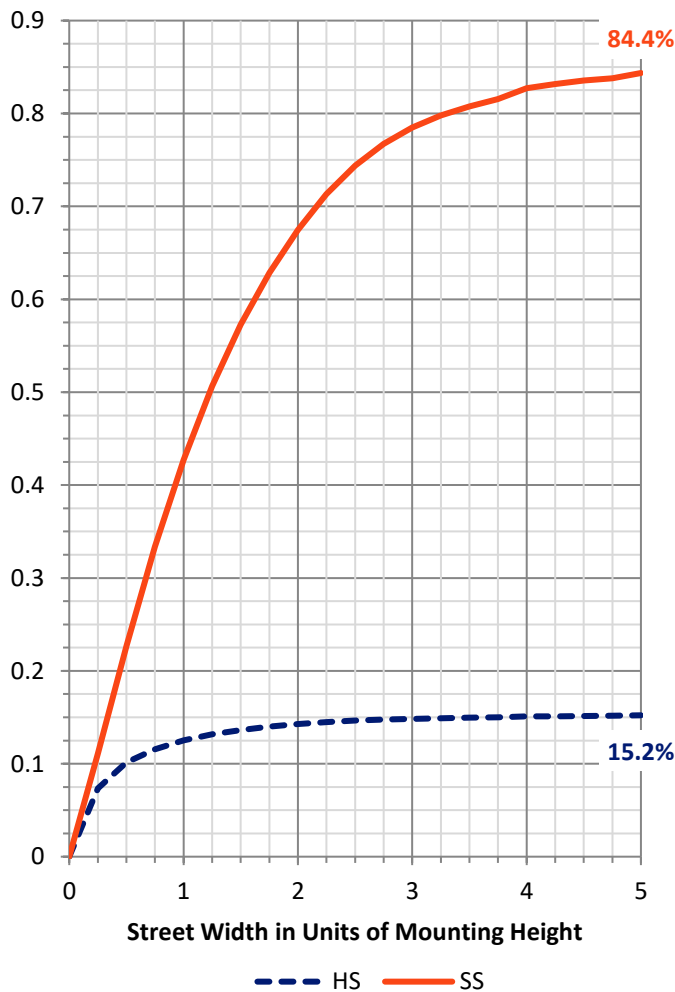
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4090.5	0.0	4090.5
	% Fixture	15.4	0.0	15.4
<b>Street Side</b>	Lumens	22466.6	0.0	22466.6
	% Fixture	84.6	0.0	84.6
<b>Total</b>	Lumens	26557.0	0.0	26557.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.4	1.5
10°-20°	1038.4	3.9
20°-30°	1630.5	6.1
30°-40°	2451.6	9.2
40°-50°	3784.1	14.2
50°-60°	5619.6	21.2
60°-70°	7083.5	26.7
70°-80°	4096.3	15.4
80°-90°	454.6	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°	26557.0	100.0
0°-180°	26557.0	100.0

**Coefficient of Utilization**



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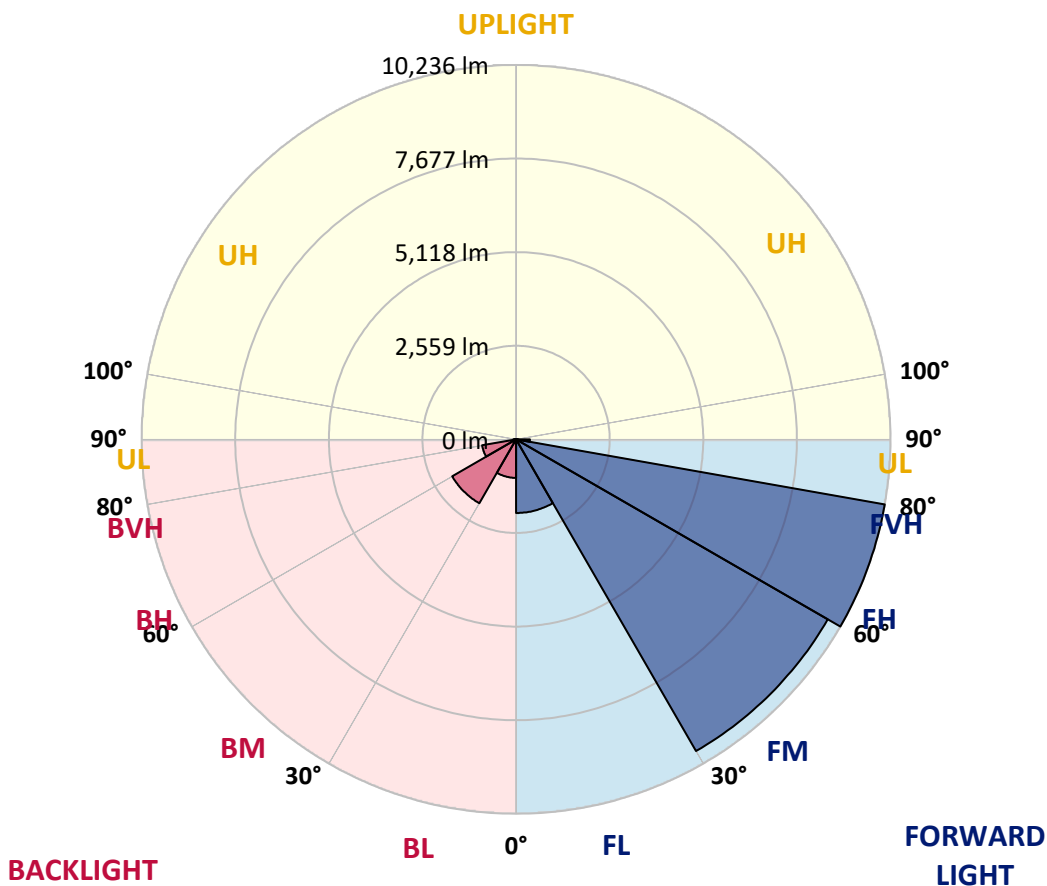
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.2	7.6			
FM (30°-60°)	9839.0	37.0			
FH (60°-80°)	10235.7	38.5			G4/12000
FVH (80°-90°)	378.6	1.4			G3/500
BL (0°-30°)	1054.2	4.0	B3/2500		
BM (30°-60°)	2016.2	7.6	B2/2500		
BH (60°-80°)	944.1	3.6	B2/1000		G2/1000
BVH (80°-90°)	76.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7
2.5°	4537.4	4545.4	4551.3	4559.2	4555.3	4543.4	4553.3	4553.3	4531.5	4507.7	4485.9
5°	4543.4	4553.3	4551.3	4549.3	4533.5	4513.6	4513.6	4501.8	4464.1	4426.4	4390.7
7.5°	4531.5	4529.5	4527.5	4521.6	4503.7	4481.9	4478.0	4454.2	4404.6	4353.1	4301.5
10°	4478.0	4476.0	4481.9	4495.8	4491.8	4472.0	4472.0	4450.2	4392.7	4329.3	4261.9
12.5°	4434.4	4434.4	4458.1	4495.8	4509.7	4501.8	4503.7	4487.9	4422.5	4347.1	4267.8
15°	4440.3	4442.3	4493.8	4555.3	4581.0	4575.1	4577.1	4559.2	4485.9	4410.6	4303.5
17.5°	4479.9	4489.9	4579.1	4664.3	4698.0	4690.1	4676.2	4646.5	4563.2	4478.0	4347.1
20°	4563.2	4579.1	4694.0	4801.1	4840.7	4822.9	4799.1	4739.6	4648.4	4555.3	4394.7
22.5°	4727.7	4737.6	4864.5	4969.6	5001.3	4979.5	4931.9	4846.7	4741.6	4644.5	4452.2
25°	4959.7	4971.6	5092.5	5189.6	5181.7	5155.9	5090.5	4985.4	4860.5	4757.5	4535.5
27.5°	5235.2	5255.0	5374.0	5451.3	5399.7	5362.1	5288.7	5161.9	5021.1	4927.9	4662.3
30°	5536.5	5544.4	5645.5	5722.8	5643.5	5592.0	5502.8	5366.0	5239.2	5169.8	4852.6
32.5°	5827.9	5835.8	5923.0	5966.7	5883.4	5845.7	5768.4	5623.7	5534.5	5496.9	5136.1
35°	6135.2	6133.2	6204.5	6242.2	6157.0	6141.1	6061.8	5950.8	5934.9	5984.5	5550.4
37.5°	6442.4	6424.6	6462.2	6511.8	6464.2	6480.1	6428.5	6390.9	6452.3	6581.2	6101.5
40°	6688.2	6688.2	6727.9	6789.3	6805.2	6874.5	6844.8	6894.4	7092.6	7399.8	6783.4
42.5°	6906.3	6908.2	6991.5	7086.6	7201.6	7308.7	7332.4	7461.3	7871.6	8353.3	7639.7
45°	7134.2	7136.2	7249.2	7388.0	7631.8	7835.9	7883.5	8172.9	8759.7	9346.4	8569.4
47.5°	7397.9	7376.1	7532.7	7764.6	8111.5	8404.9	8527.8	8938.1	9679.5	10401.0	9445.6
50°	7695.2	7649.6	7824.1	8224.5	8652.6	9055.0	9261.2	9731.0	10666.6	11374.3	10270.2
52.5°	8030.2	8004.4	8186.8	8674.4	9328.6	9792.5	10072.0	10688.4	11626.1	12343.6	10924.3
55°	8446.5	8385.0	8648.7	9269.1	10121.5	10712.2	11043.3	11636.0	12674.7	13223.8	11423.9
57.5°	8902.4	8835.0	9187.9	10012.5	11152.3	11800.5	12214.8	12702.4	13661.9	13897.8	11717.2
60°	9394.0	9372.2	9790.5	10884.7	12381.3	13134.6	13433.9	13875.9	14520.2	14288.3	11643.9
62.5°	9844.0	9836.1	10444.6	11830.2	13683.7	14512.3	14750.1	14867.1	15138.7	14262.5	11061.1
65°	10317.8	10385.2	11207.8	12926.4	15176.3	15989.1	16088.2	15790.8	15346.8	13586.5	9867.8
67.5°	10377.2	10508.1	11687.5	13953.3	16591.7	17358.8	17279.5	16141.7	14732.3	11705.4	7734.8
70°	9281.0	9509.0	10922.4	14109.9	17588.8	18153.7	17580.8	15386.4	12502.2	8480.2	4864.5
72.5°	7754.7	7950.9	9199.8	12032.4	16302.3	17021.8	16246.8	13023.6	8835.0	4864.5	2477.8
75°	6036.0	6264.0	7415.7	9564.5	12204.9	12492.3	12103.8	9082.8	4856.6	2006.1	1125.9
77.5°	3683.1	3847.6	4743.6	6480.1	8539.7	8109.5	6872.6	5092.5	2130.9	961.4	695.8
80°	1629.4	1730.5	2337.1	3480.9	4933.9	4664.3	3677.1	2174.6	1165.6	610.5	485.7
82.5°	874.2	939.6	1151.7	1377.7	2166.6	2265.7	1837.6	1252.8	626.4	348.9	277.5
85°	384.6	422.2	523.3	499.5	711.6	699.7	705.7	860.3	299.3	160.6	180.4
87.5°	0.0	0.0	0.0	0.0	2.0	2.0	21.8	115.0	29.7	47.6	41.6
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°	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7	4509.7
2.5°	4462.1	4426.4	4416.5	4404.6	4382.8	4345.2	4317.4	4285.7	4271.8	4256.0	4257.9
5°	4351.1	4307.5	4265.9	4212.3	4144.9	4069.6	4018.1	3958.6	3926.9	3897.2	3905.1
7.5°	4256.0	4188.6	4103.3	3990.3	3869.4	3734.6	3625.6	3540.3	3482.9	3443.2	3463.0
10°	4196.5	4117.2	3968.5	3784.2	3580.0	3373.8	3217.2	3070.5	2979.4	2908.0	2904.0
12.5°	4184.6	4081.5	3865.4	3597.8	3302.5	3026.9	2797.0	2598.8	2477.8	2388.6	2422.3
15°	4196.5	4065.7	3776.2	3425.4	3052.7	2680.0	2394.6	2166.6	2021.9	1940.7	1934.7
17.5°	4210.4	4049.8	3675.1	3239.0	2791.0	2364.9	2033.8	1792.0	1643.3	1562.0	1564.0
20°	4222.3	4026.0	3556.2	3034.9	2525.4	2071.5	1728.5	1498.6	1365.8	1306.3	1316.2
22.5°	4242.1	4002.2	3429.3	2816.8	2253.9	1788.0	1486.7	1300.4	1221.1	1181.4	1183.4
25°	4279.7	3988.3	3298.5	2578.9	1986.2	1562.0	1320.2	1195.3	1145.8	1122.0	1120.0
27.5°	4357.0	4000.2	3161.7	2349.0	1744.4	1389.6	1213.2	1131.9	1098.2	1082.3	1080.3
30°	4485.9	4047.8	3042.8	2115.1	1536.3	1254.8	1139.8	1090.3	1070.4	1056.6	1054.6
32.5°	4682.1	4137.0	2913.9	1897.0	1367.8	1155.7	1082.3	1056.6	1042.7	1034.7	1034.7
35°	4979.5	4299.6	2787.1	1706.7	1236.9	1078.4	1036.7	1026.8	1014.9	1011.0	1014.9
37.5°	5407.7	4559.2	2672.1	1540.2	1143.8	1018.9	987.2	991.1	981.2	987.2	993.1
40°	5950.8	4906.1	2575.0	1403.5	1074.4	975.3	943.6	957.4	951.5	957.4	967.4
42.5°	6638.7	5336.3	2501.6	1296.4	1024.8	939.6	909.9	923.7	919.8	927.7	937.6
45°	7405.8	5903.2	2467.9	1221.1	989.2	913.8	882.1	892.0	888.1	894.0	903.9
47.5°	8141.2	6418.6	2497.7	1177.5	959.4	892.0	858.3	862.3	860.3	858.3	864.3
50°	8775.5	6828.9	2582.9	1163.6	939.6	870.2	838.5	840.5	834.5	822.6	826.6
52.5°	9292.9	7158.0	2634.4	1163.6	929.7	846.4	816.7	818.7	806.8	790.9	792.9
55°	9633.9	7290.8	2592.8	1161.6	925.7	826.6	794.9	796.9	785.0	765.2	767.1
57.5°	9731.0	7162.0	2418.4	1139.8	921.8	810.8	773.1	777.1	769.1	747.3	747.3
60°	9459.4	6690.2	2099.2	1090.3	911.8	800.8	757.2	763.2	759.2	737.4	737.4
62.5°	8747.8	5851.7	1718.6	1014.9	884.1	788.9	743.4	755.2	765.2	753.3	751.3
65°	7415.7	4688.1	1397.5	931.7	848.4	769.1	723.5	753.3	775.1	790.9	790.9
67.5°	5564.3	3356.0	1139.8	844.5	794.9	729.5	697.8	725.5	741.4	751.3	757.2
70°	3391.7	1974.3	898.0	743.4	717.6	670.0	646.2	618.5	596.7	592.7	594.7
72.5°	1659.2	1129.9	729.5	632.3	612.5	568.9	515.4	503.5	493.6	487.6	485.7
75°	913.8	787.0	602.6	525.3	489.6	436.1	424.2	404.4	400.4	392.5	394.5
77.5°	646.2	620.5	497.6	426.2	372.7	344.9	350.9	337.0	337.0	331.0	329.1
80°	485.7	487.6	382.6	311.2	275.5	265.6	271.6	271.6	267.6	265.6	263.6
82.5°	307.3	346.9	257.7	200.2	196.2	198.2	196.2	194.3	198.2	192.3	190.3
85°	212.1	249.8	156.6	118.9	118.9	117.0	120.9	118.9	122.9	117.0	117.0
87.5°	47.6	111.0	57.5	35.7	37.7	35.7	37.7	39.6	43.6	45.6	45.6
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)