

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: P637647

Luminaire Tested: GWS-SA4D-730-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637647  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21914 lumens  
Efficiency: N/A  
Efficacy: 135.2 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): 162.1  
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

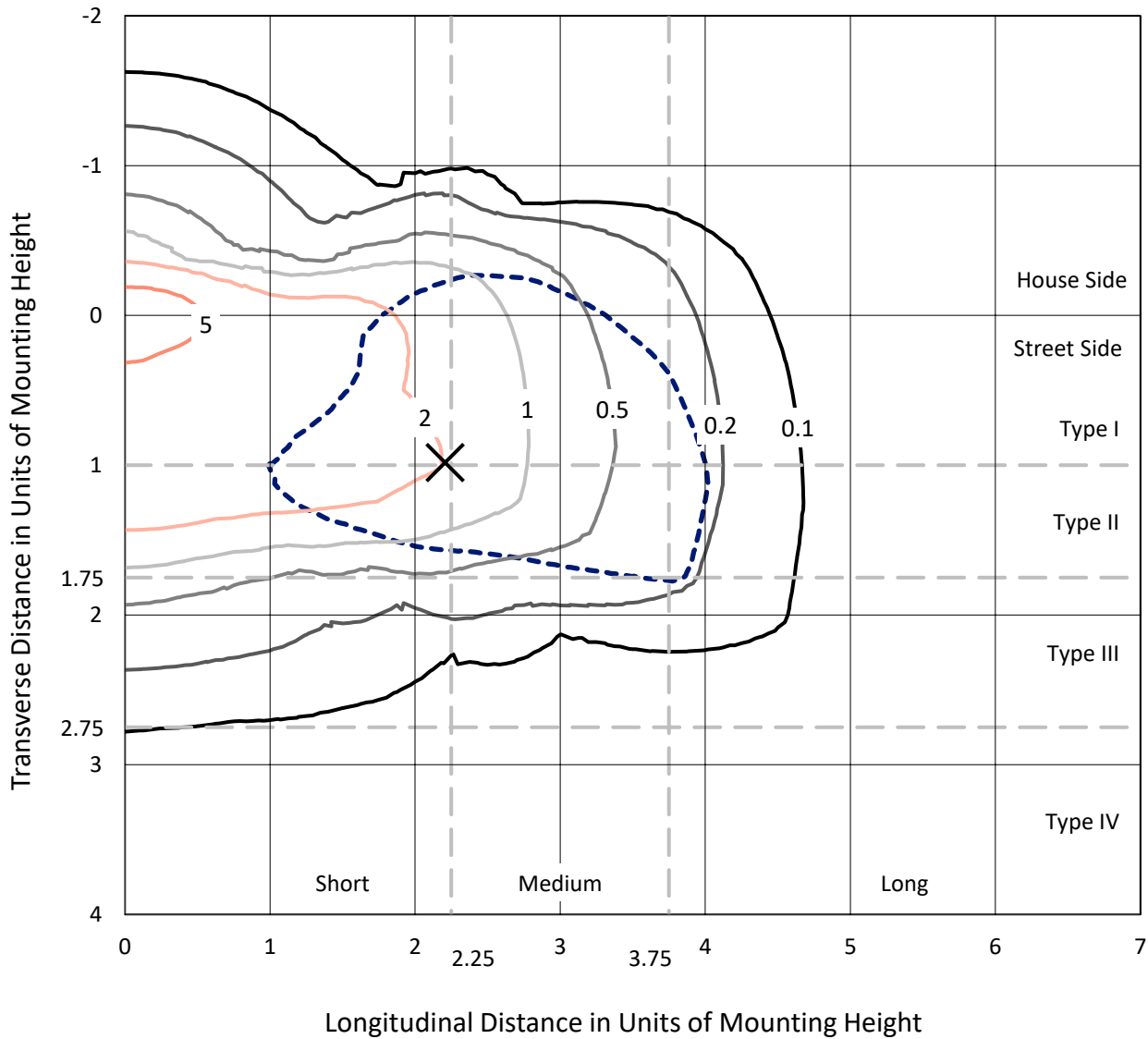


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### Iso-Footcandle Lines of Horizontal Illumination

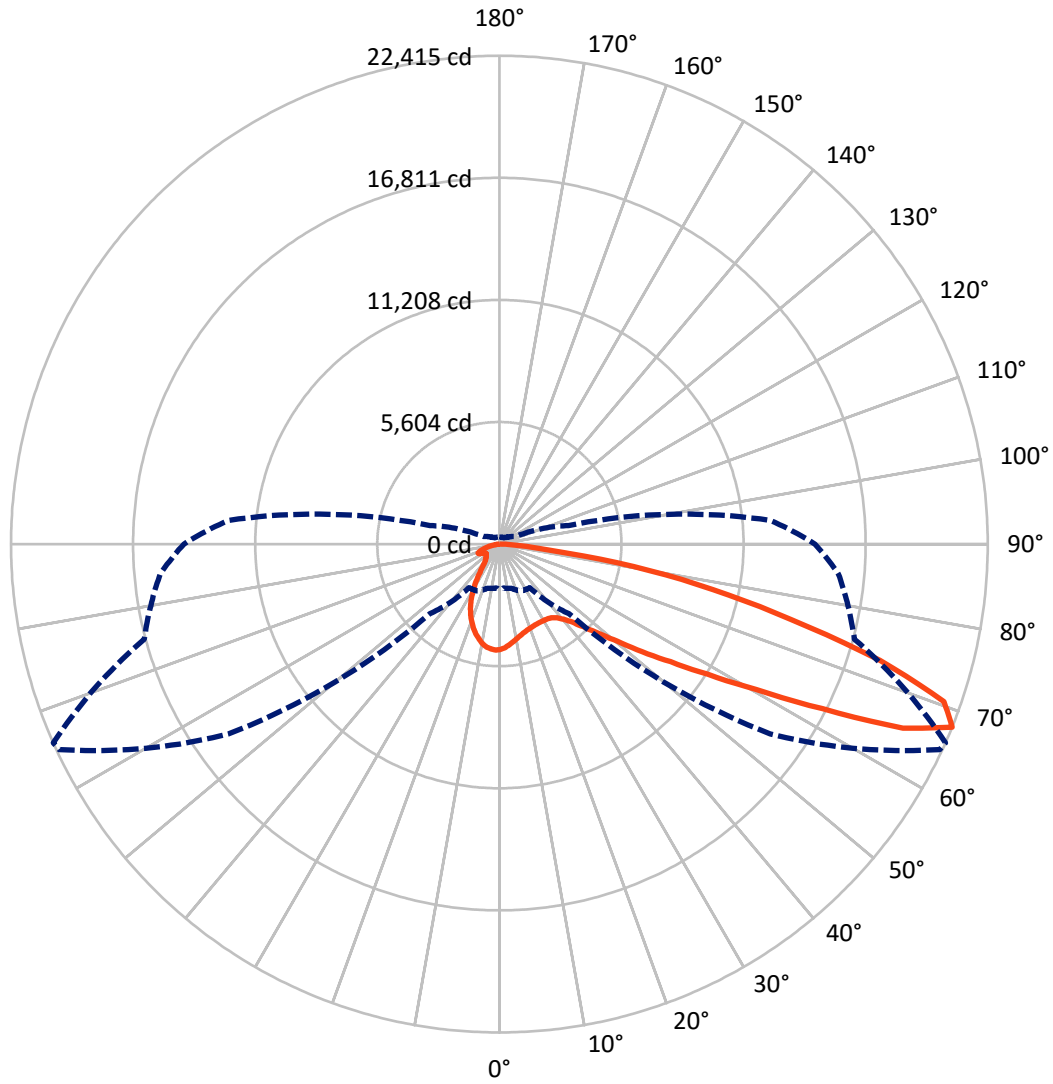
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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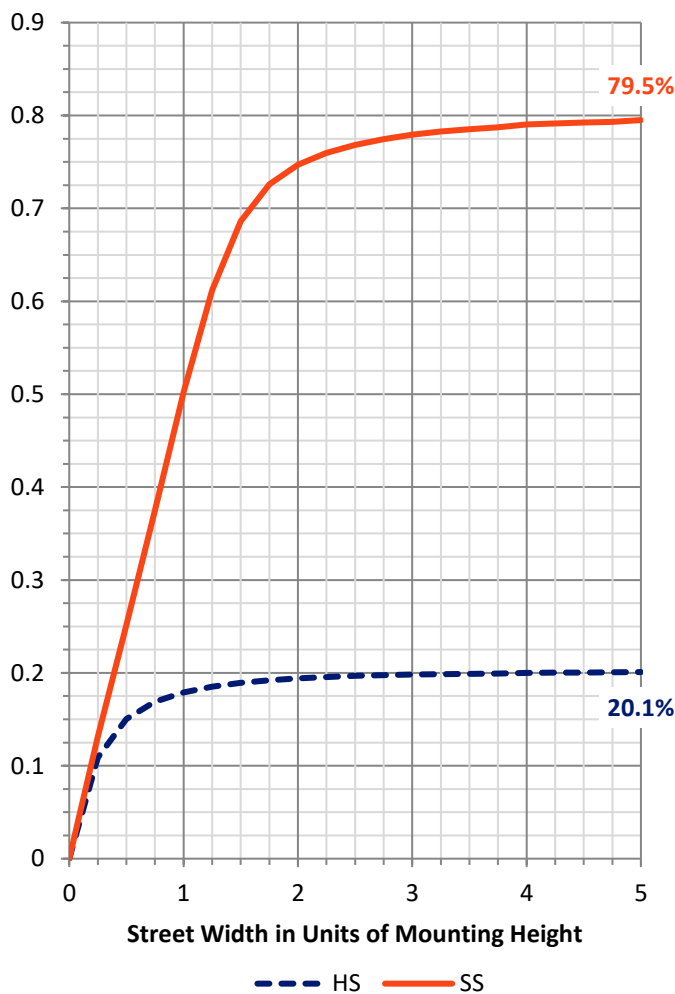
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4446.9	0.0	4446.9
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	17467.1	0.0	17467.1
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	21914.0	0.0	21914.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.0	1.9
10°-20°	1044.4	4.8
20°-30°	1435.6	6.6
30°-40°	1962.7	9.0
40°-50°	2974.0	13.6
50°-60°	4623.2	21.1
60°-70°	5628.7	25.7
70°-80°	3428.7	15.6
80°-90°	391.6	1.8
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°	21914.0	100.0
0°-180°	21914.0	100.0

**Coefficient of Utilization**



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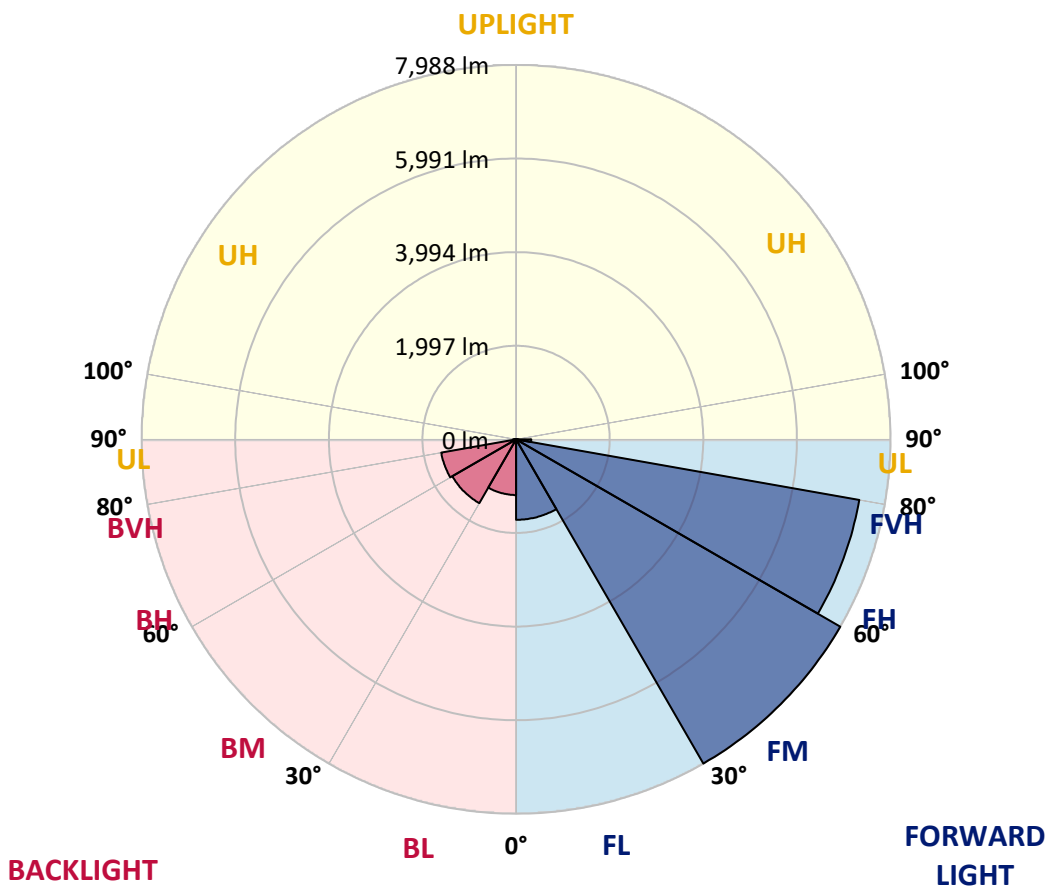
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1717.1	7.8			
FM (30°-60°)	7988.5	36.5			
FH (60°-80°)	7436.0	33.9			G3/7500
FVH (80°-90°)	325.6	1.5			G3/500
BL (0°-30°)	1188.0	5.4	B3/2500		
BM (30°-60°)	1571.5	7.2	B2/2500		
BH (60°-80°)	1621.4	7.4	B3/2500		G3/2500
BVH (80°-90°)	66.0	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4
2.5°	4535.4	4551.4	4541.8	4602.6	4605.8	4682.5	4725.7	4762.4	4765.6	4813.6	4845.6
5°	4225.3	4234.9	4234.9	4292.4	4330.8	4433.1	4532.2	4637.7	4645.7	4760.8	4848.8
7.5°	3974.3	3983.9	3977.5	4054.2	4103.8	4217.3	4343.6	4505.1	4521.0	4706.5	4860.0
10°	3777.7	3774.5	3790.4	3860.8	3924.7	4060.6	4201.3	4385.2	4409.1	4644.1	4872.7
12.5°	3643.4	3646.6	3656.2	3729.7	3798.4	3932.7	4078.2	4278.0	4303.6	4572.2	4866.4
15°	3579.4	3573.0	3581.0	3648.2	3713.7	3832.0	3982.3	4188.5	4214.1	4508.2	4868.0
17.5°	3565.0	3560.2	3558.6	3606.6	3656.2	3766.5	3910.3	4119.8	4147.0	4466.7	4877.5
20°	3609.8	3603.4	3585.8	3606.6	3627.4	3720.1	3859.2	4070.2	4100.6	4439.5	4896.7
22.5°	3732.9	3721.7	3694.5	3668.9	3641.8	3697.7	3827.2	4033.4	4063.8	4421.9	4915.9
25°	3919.9	3910.3	3881.6	3824.0	3724.9	3715.3	3820.8	4017.5	4047.8	4409.1	4923.9
27.5°	4177.3	4162.9	4134.2	4051.0	3889.6	3780.9	3844.8	4015.9	4044.6	4394.7	4915.9
30°	4482.7	4473.1	4457.1	4356.4	4140.6	3919.9	3899.2	4028.6	4051.0	4386.8	4899.9
32.5°	4792.8	4783.2	4796.0	4748.1	4482.7	4150.1	4017.5	4063.8	4079.8	4385.2	4885.5
35°	5066.2	5077.4	5170.1	5178.1	4917.5	4461.9	4204.5	4145.4	4148.5	4417.1	4891.9
37.5°	5352.3	5395.5	5517.0	5620.9	5403.5	4874.3	4482.7	4298.8	4295.6	4498.7	4931.9
40°	5731.2	5750.4	5905.5	6100.5	5964.6	5440.3	4877.5	4549.8	4527.4	4664.9	5039.0
42.5°	6100.5	6146.9	6394.7	6618.5	6573.7	6078.1	5374.7	4925.5	4885.5	4959.1	5259.6
45°	6570.5	6615.3	6893.5	7181.2	7262.8	6799.1	6011.0	5459.5	5419.5	5401.9	5664.1
47.5°	7040.5	7086.9	7336.3	7752.0	8038.1	7700.8	6839.1	6164.5	6098.9	6030.2	6274.8
50°	7357.1	7411.4	7649.6	8148.4	8819.9	8826.3	7820.7	7088.5	7005.4	6896.7	7134.9
52.5°	7345.9	7381.1	7608.1	8183.6	9382.6	10119.6	9134.8	8265.1	8198.0	7961.4	8169.2
55°	6768.8	6821.5	7050.1	7769.5	9443.3	11345.8	11066.0	9652.8	9532.9	9109.2	9337.8
57.5°	5609.7	5654.5	5884.7	6772.0	8904.6	11974.0	13518.4	11420.9	11256.2	10359.4	10623.2
60°	4234.9	4180.5	4289.2	5066.2	7616.1	11990.0	15683.0	13818.9	13543.9	11695.9	11916.5
62.5°	3178.2	3123.8	3147.8	3366.8	5163.7	11021.2	16917.1	17099.4	16645.4	13205.0	13161.9
65°	2511.5	2481.1	2549.9	2700.2	3010.3	8393.0	16926.7	20646.8	20360.7	14954.0	14439.2
67.5°	2046.3	2027.1	2097.5	2375.6	2441.2	4509.8	15177.8	22303.0	22415.0	16869.2	15623.8
70°	1648.2	1619.5	1729.8	2095.9	2270.1	2728.9	10872.6	21458.9	21639.6	18010.6	15289.7
72.5°	1138.3	1139.9	1195.8	1697.8	2191.8	2356.4	6150.1	17868.3	18260.0	16976.3	13441.6
75°	767.4	773.8	789.7	1120.7	2019.1	2286.1	3277.3	13527.9	13804.5	14031.5	11110.8
77.5°	463.6	466.8	503.6	677.8	1392.4	2134.2	2220.6	9806.2	10023.7	9249.9	6887.1
80°	268.6	279.8	313.3	454.0	940.0	1603.5	1718.6	6012.6	6258.8	4111.8	2188.6
82.5°	118.3	126.3	171.1	263.8	548.3	1363.7	1341.3	2375.6	2340.5	1146.2	759.4
85°	20.8	25.6	36.8	83.1	201.4	719.4	1040.7	1048.7	986.4	434.8	314.9
87.5°	0.0	0.0	0.0	0.0	0.0	4.8	156.7	281.4	279.8	123.1	108.7
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°	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4	4842.4
2.5°	4866.4	4823.2	4861.6	4866.4	4858.4	4852.0	4804.0	4762.4	4757.6	4712.9	4712.9
5°	4883.9	4844.0	4863.2	4826.4	4768.8	4709.7	4607.4	4537.0	4505.1	4447.5	4447.5
7.5°	4907.9	4866.4	4844.0	4752.8	4618.6	4489.1	4324.4	4186.9	4131.0	4049.4	4046.2
10°	4930.3	4877.5	4800.8	4623.4	4409.1	4202.9	3963.1	3768.1	3635.4	3537.9	3537.9
12.5°	4928.7	4860.0	4708.1	4445.9	4150.1	3851.2	3531.5	3237.3	3061.5	2909.6	2900.0
15°	4925.5	4831.2	4589.8	4239.7	3848.0	3433.9	2999.1	2615.4	2354.8	2206.2	2193.4
17.5°	4922.3	4794.4	4457.1	4004.7	3480.3	2916.0	2342.1	1926.4	1709.0	1617.9	1621.1
20°	4922.3	4752.8	4314.8	3734.5	3056.7	2295.7	1718.6	1416.4	1362.1	1366.9	1371.7
22.5°	4907.9	4701.7	4156.5	3440.3	2585.0	1688.2	1267.7	1165.4	1194.2	1239.0	1245.4
25°	4874.3	4617.0	3972.7	3114.2	2023.9	1229.4	1034.3	1015.2	1067.9	1123.9	1139.9
27.5°	4821.6	4519.4	3766.5	2732.1	1490.0	988.0	909.6	908.0	949.6	991.2	1005.6
30°	4765.6	4410.7	3549.0	2306.9	1079.1	860.1	829.7	829.7	850.5	876.1	872.9
32.5°	4700.1	4300.4	3315.6	1864.0	879.3	788.1	778.6	773.8	777.0	786.5	786.5
35°	4644.1	4202.9	3075.8	1395.6	788.1	748.2	738.6	727.4	722.6	716.2	719.4
37.5°	4623.4	4126.2	2828.0	1051.9	743.4	719.4	703.4	687.4	676.2	673.0	671.4
40°	4656.9	4094.2	2580.3	866.5	711.4	689.0	671.4	650.7	641.1	641.1	641.1
42.5°	4788.0	4118.2	2327.7	783.3	689.0	663.4	637.9	618.7	615.5	618.7	620.3
45°	5027.8	4210.9	2065.5	741.8	669.8	637.9	607.5	593.1	593.1	596.3	596.3
47.5°	5456.3	4453.9	1806.5	716.2	650.7	617.1	585.1	570.7	569.1	572.3	572.3
50°	6198.0	4891.9	1573.1	698.6	636.3	601.1	569.1	549.9	545.1	543.5	543.5
52.5°	7133.3	5651.3	1424.4	685.8	618.7	583.5	551.5	526.0	516.4	511.6	511.6
55°	8263.5	6663.3	1424.4	676.2	596.3	562.7	526.0	500.4	486.0	479.6	479.6
57.5°	9544.1	7841.5	1670.6	668.2	578.7	538.8	498.8	473.2	457.2	447.6	447.6
60°	10847.0	9086.8	2279.7	657.1	562.7	508.4	468.4	444.4	423.6	412.5	410.9
62.5°	12197.9	10458.5	3082.2	663.4	551.5	479.6	436.4	409.3	391.7	380.5	378.9
65°	13435.2	11764.6	3784.1	713.0	553.1	454.0	399.7	375.7	361.3	346.9	345.3
67.5°	14485.6	12485.6	3291.7	813.7	586.7	423.6	362.9	338.9	326.1	316.5	314.9
70°	13750.2	11385.7	1867.2	876.1	633.1	391.7	321.3	305.3	292.6	286.2	284.6
72.5°	11758.2	9640.0	1248.6	773.8	577.1	350.1	283.0	270.2	260.6	252.6	251.0
75°	9524.9	7644.8	954.4	634.7	449.2	284.6	243.0	233.4	223.8	215.8	214.2
77.5°	5635.3	4417.1	703.4	502.0	316.5	222.2	201.4	193.4	183.8	177.5	175.9
80°	1798.5	1534.7	446.0	345.3	209.4	171.1	155.1	148.7	139.1	131.1	129.5
82.5°	685.8	593.1	236.6	175.9	139.1	116.7	103.9	97.5	91.1	83.1	81.5
85°	303.7	284.6	131.1	94.3	75.1	57.6	51.2	48.0	40.0	33.6	32.0
87.5°	107.1	107.1	56.0	27.2	16.0	8.0	4.8	1.6	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)