

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: P638469

Luminaire Tested: GWS-SA4E-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-830-U-SL2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

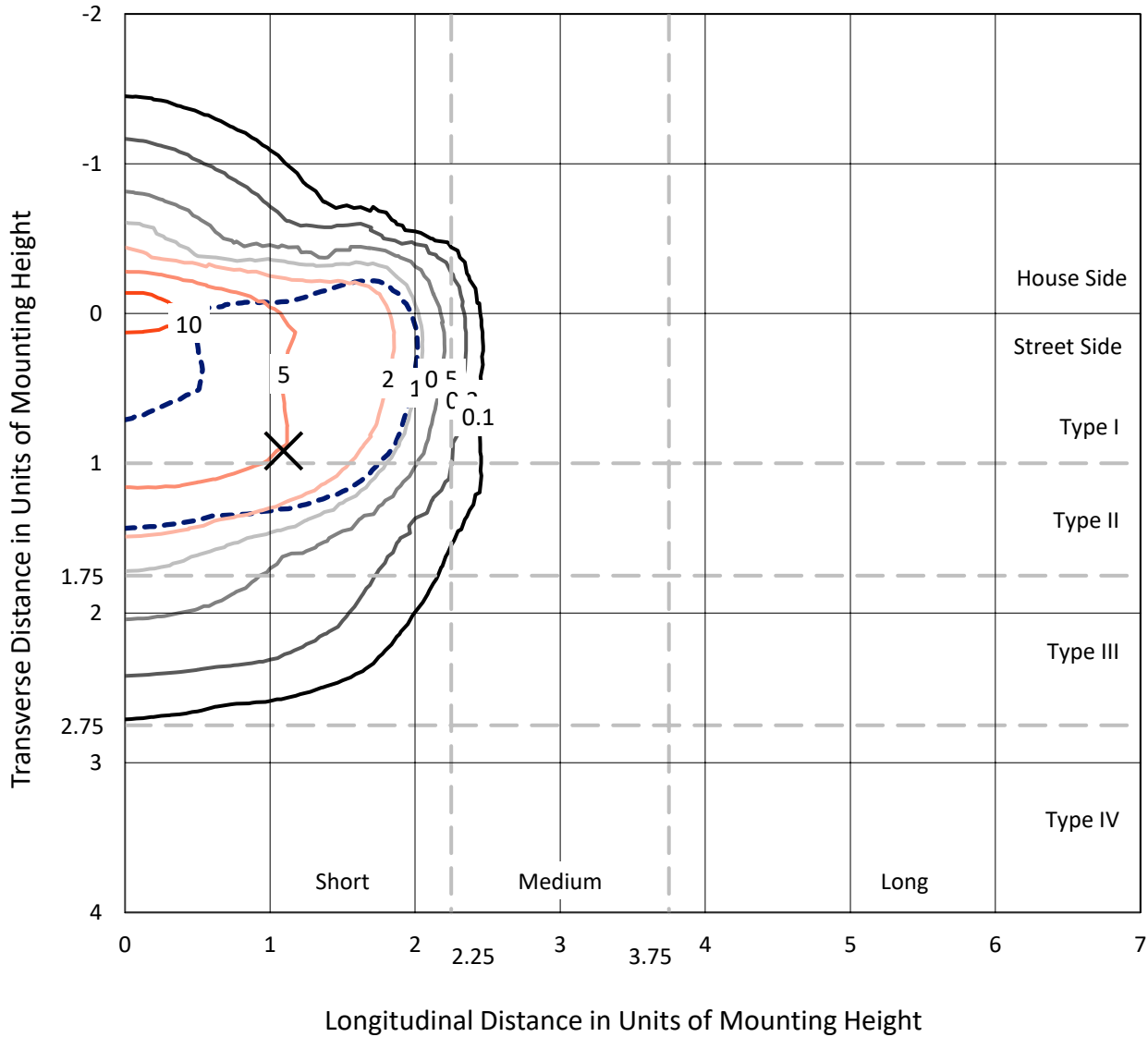
Lumens per Lamp: N/A  
Luminaire Lumens: 14274.8 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

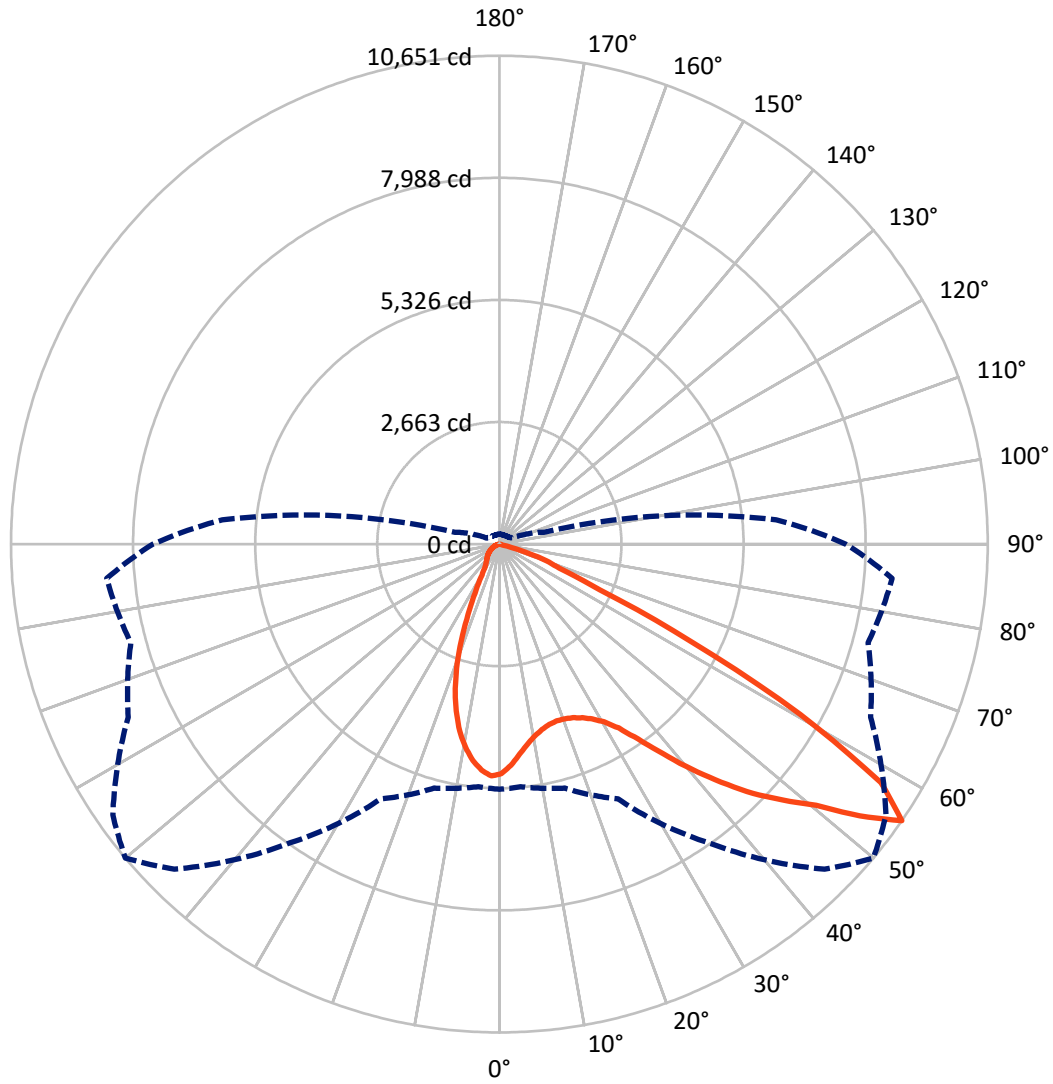
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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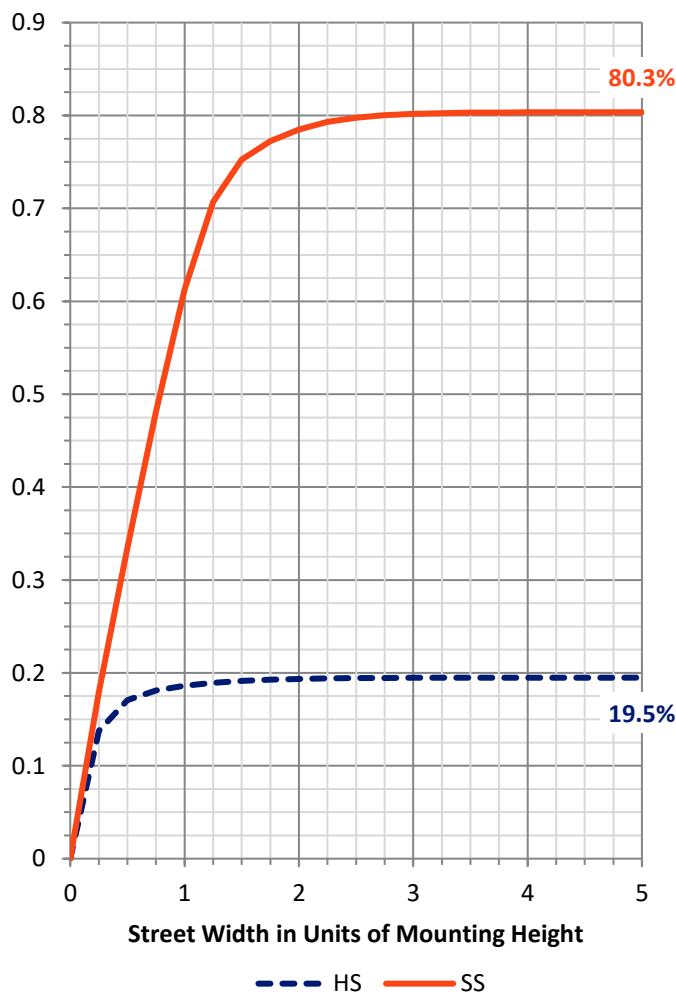
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2812.8	0.0	2812.8
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	11462.0	0.0	11462.0
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	14274.8	0.0	14274.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.8	3.1
10°-20°	1082.4	7.6
20°-30°	1526.7	10.7
30°-40°	2259.3	15.8
40°-50°	3259.4	22.8
50°-60°	3844.7	26.9
60°-70°	1715.0	12.0
70°-80°	147.4	1.0
80°-90°	0.1	0.0
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°	14274.8	100.0
0°-180°	14274.8	100.0

**Coefficient of Utilization**



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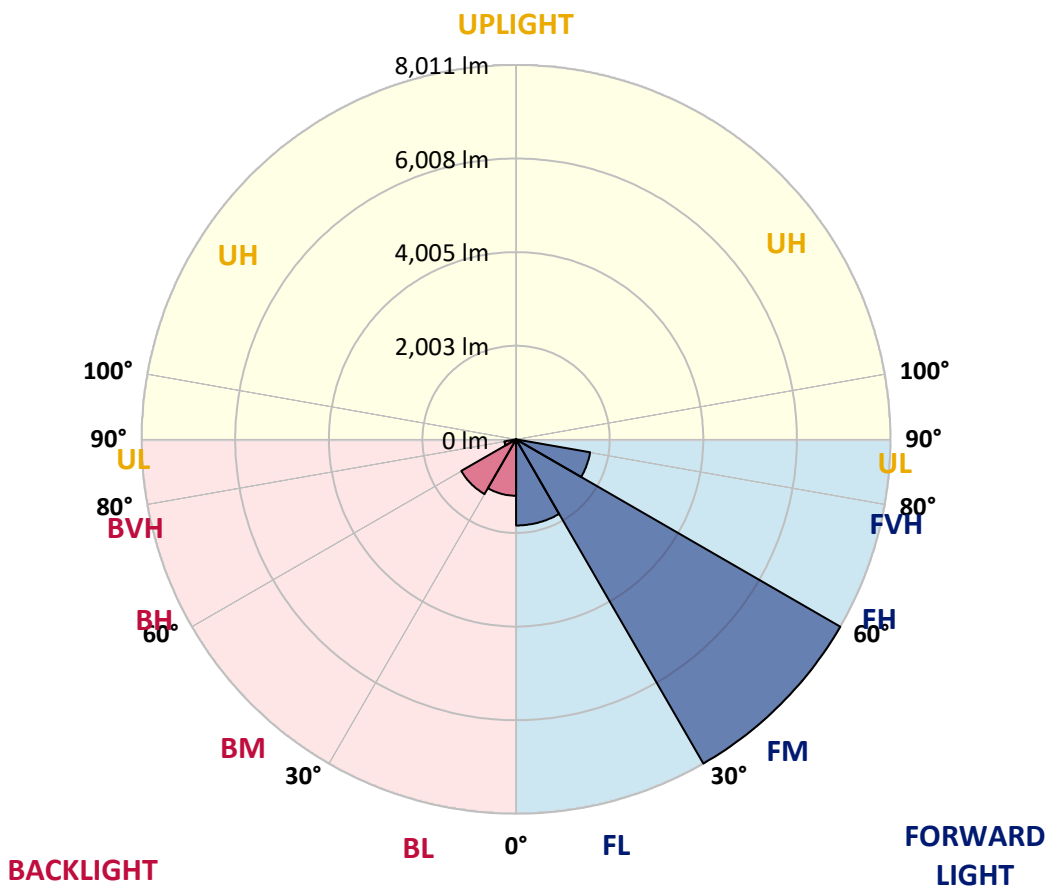
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.9	12.9			
FM (30°-60°)	8010.5	56.1			
FH (60°-80°)	1608.5	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1206.0	8.4	B3/2500		
BM (30°-60°)	1352.8	9.5	B2/2500		
BH (60°-80°)	254.0	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4
2.5°	4652.9	4656.4	4658.1	4705.2	4722.6	4792.3	4828.9	4848.1	4898.6	4957.9	5006.7
5°	4341.0	4335.7	4344.4	4403.7	4442.0	4544.8	4600.6	4639.0	4750.5	4889.9	5006.7
7.5°	4069.1	4079.6	4090.0	4154.5	4212.0	4323.5	4403.7	4461.2	4616.3	4823.7	5020.6
10°	3877.4	3877.4	3893.1	3966.3	4034.2	4171.9	4252.1	4325.3	4510.0	4764.4	5036.3
12.5°	3736.3	3738.0	3757.2	3840.8	3919.2	4062.1	4145.8	4217.2	4421.1	4705.2	5039.8
15°	3670.0	3664.8	3680.5	3769.4	3856.5	3990.7	4077.8	4147.5	4358.4	4672.1	5057.2
17.5°	3652.6	3649.1	3661.3	3748.5	3837.3	3968.0	4053.4	4123.1	4349.7	4682.5	5109.5
20°	3703.1	3696.2	3690.9	3765.9	3849.5	3978.5	4067.4	4145.8	4391.5	4740.0	5189.6
22.5°	3823.4	3823.4	3811.2	3847.8	3903.5	4020.3	4112.7	4215.5	4501.3	4855.0	5308.1
25°	4044.7	4027.3	4004.6	4020.3	4013.3	4086.5	4196.3	4339.2	4708.7	5045.0	5452.8
27.5°	4297.4	4313.1	4274.7	4276.5	4215.5	4189.3	4316.6	4532.6	5017.1	5313.4	5667.1
30°	4640.7	4628.5	4630.2	4625.0	4483.9	4360.1	4497.8	4785.3	5405.7	5722.9	5945.9
32.5°	4909.1	4926.5	4984.0	5017.1	4832.4	4633.7	4780.1	5128.6	5848.4	6189.9	6287.5
35°	5193.1	5224.5	5341.2	5449.3	5294.2	5065.9	5222.7	5583.5	6264.8	6651.7	6679.6
37.5°	5492.9	5555.6	5695.0	5884.9	5860.6	5658.4	5801.3	6118.5	6592.5	6930.5	7003.7
40°	5836.2	5897.1	6125.4	6399.0	6456.5	6411.2	6458.3	6643.0	6808.6	6942.7	7143.1
42.5°	6212.6	6296.2	6585.5	6951.5	7167.5	7207.6	7097.8	7078.7	6902.7	6803.3	7113.5
45°	6656.9	6754.5	7082.2	7556.2	7899.5	7953.5	7763.5	7517.8	6961.9	6700.5	7024.6
47.5°	7155.3	7247.7	7573.6	8143.4	8654.0	8674.9	8343.8	7948.3	7137.9	6819.0	7092.6
50°	7322.6	7380.1	7662.5	8331.6	9272.7	9433.0	8953.8	8432.7	7491.7	7167.5	7423.7
52.5°	6747.6	6770.2	7015.9	7692.1	9147.2	10177.1	9844.3	9155.9	8120.8	7699.1	7934.3
55°	5346.5	5309.9	5508.5	6128.9	7950.0	10025.5	10651.1	10292.1	8931.1	8322.9	8598.3
57.5°	3739.7	3696.2	3650.9	4070.8	5932.0	8498.9	9814.6	10450.7	9703.1	8941.6	9314.5
60°	3074.0	3032.2	2812.6	2619.2	3586.4	6102.8	7538.7	8735.9	9640.4	8910.2	9291.8
62.5°	2655.8	2631.4	2542.5	2279.4	2110.4	3483.6	4720.9	5867.5	7397.6	6996.8	7017.7
65°	2086.0	2079.0	2140.0	2167.9	1866.4	1927.4	2408.4	3049.6	3999.4	3771.1	3575.9
67.5°	1425.5	1409.8	1524.8	1875.1	1794.9	1521.3	1409.8	1422.0	1730.5	1057.8	840.0
70°	906.2	869.6	871.3	1162.4	1460.3	1200.7	1087.4	956.7	860.9	156.8	177.8
72.5°	580.3	557.6	479.2	524.5	676.2	585.5	590.8	508.9	339.8	83.6	97.6
75°	244.0	224.8	172.5	137.7	135.9	85.4	74.9	69.7	47.1	47.1	50.5
77.5°	1.7	0.0	0.0	1.7	3.5	1.7	1.7	3.5	7.0	10.5	12.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4	5008.4
2.5°	5036.3	4994.5	5041.5	5058.9	5057.2	5058.9	5008.4	4973.5	4971.8	4928.2	4907.3
5°	5055.4	5022.3	5057.2	5034.5	4980.5	4912.5	4821.9	4743.5	4708.7	4658.1	4633.7
7.5°	5092.0	5057.2	5052.0	4961.3	4827.2	4684.3	4523.9	4381.0	4304.4	4212.0	4217.2
10°	5118.2	5078.1	5010.1	4825.4	4602.4	4374.1	4135.3	3922.7	3788.5	3664.8	3643.9
12.5°	5128.6	5069.4	4910.8	4632.0	4318.3	4020.3	3670.0	3366.8	3157.7	2995.6	2973.0
15°	5147.8	5052.0	4783.6	4398.5	3968.0	3546.3	3100.2	2685.4	2408.4	2221.9	2237.6
17.5°	5177.4	5032.8	4640.7	4137.1	3591.6	2995.6	2392.7	1916.9	1662.5	1554.4	1556.2
20°	5219.3	5010.1	4483.9	3849.5	3140.3	2373.5	1672.9	1314.0	1242.5	1239.0	1233.8
22.5°	5275.0	4987.5	4316.6	3534.1	2605.3	1662.5	1113.6	1002.0	1031.7	1089.2	1099.6
25°	5341.2	4959.6	4130.1	3178.6	2021.5	1090.9	834.7	817.3	888.8	965.4	982.9
27.5°	5444.1	4945.7	3917.5	2774.3	1418.5	782.5	683.1	693.6	758.1	822.5	838.2
30°	5618.3	4971.8	3685.7	2321.2	911.4	623.9	592.5	608.2	643.0	676.2	690.1
32.5°	5855.3	5048.5	3460.9	1826.3	650.0	542.0	535.0	543.7	557.6	576.8	582.0
35°	6132.4	5180.9	3229.1	1307.0	536.7	494.9	487.9	487.9	494.9	498.4	500.1
37.5°	6360.7	5320.3	3011.3	869.6	481.0	458.3	447.9	442.6	440.9	444.4	446.1
40°	6460.0	5377.8	2774.3	632.6	440.9	425.2	409.5	393.8	393.8	406.0	407.8
42.5°	6390.3	5313.4	2500.7	522.8	413.0	390.4	366.0	352.0	359.0	371.2	374.7
45°	6242.2	5154.8	2199.2	461.8	385.1	355.5	327.6	318.9	325.9	341.6	345.0
47.5°	6217.8	5050.2	1838.5	421.7	355.5	325.9	296.3	287.5	296.3	308.5	311.9
50°	6460.0	5140.8	1437.7	386.9	327.6	294.5	270.1	261.4	266.6	273.6	277.1
52.5°	6902.7	5477.2	1160.6	353.8	294.5	263.1	247.5	237.0	237.0	244.0	245.7
55°	7556.2	6064.4	1002.0	315.4	256.2	238.7	224.8	214.3	214.3	217.8	219.6
57.5°	8309.0	6775.4	1038.6	264.9	224.8	216.1	203.9	195.2	198.7	198.7	198.7
60°	8204.4	6723.2	1111.8	223.1	198.7	195.2	184.7	181.2	189.9	183.0	179.5
62.5°	6043.5	4644.2	582.0	183.0	170.8	167.3	160.3	167.3	179.5	160.3	153.4
65°	2934.6	2248.0	233.5	149.9	144.6	141.2	137.7	148.1	155.1	125.5	118.5
67.5°	690.1	561.1	151.6	127.2	120.2	113.3	116.8	118.5	113.3	85.4	81.9
70°	179.5	176.0	118.5	106.3	95.8	88.9	88.9	87.1	74.9	54.0	50.5
72.5°	97.6	95.8	85.4	80.2	66.2	59.3	61.0	54.0	41.8	31.4	29.6
75°	48.8	52.3	48.8	45.3	36.6	33.1	33.1	29.6	20.9	12.2	12.2
77.5°	10.5	12.2	12.2	10.5	8.7	7.0	7.0	8.7	3.5	0.0	0.0
80°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)