

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: P637644

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637644  
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-SA4D-730-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, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

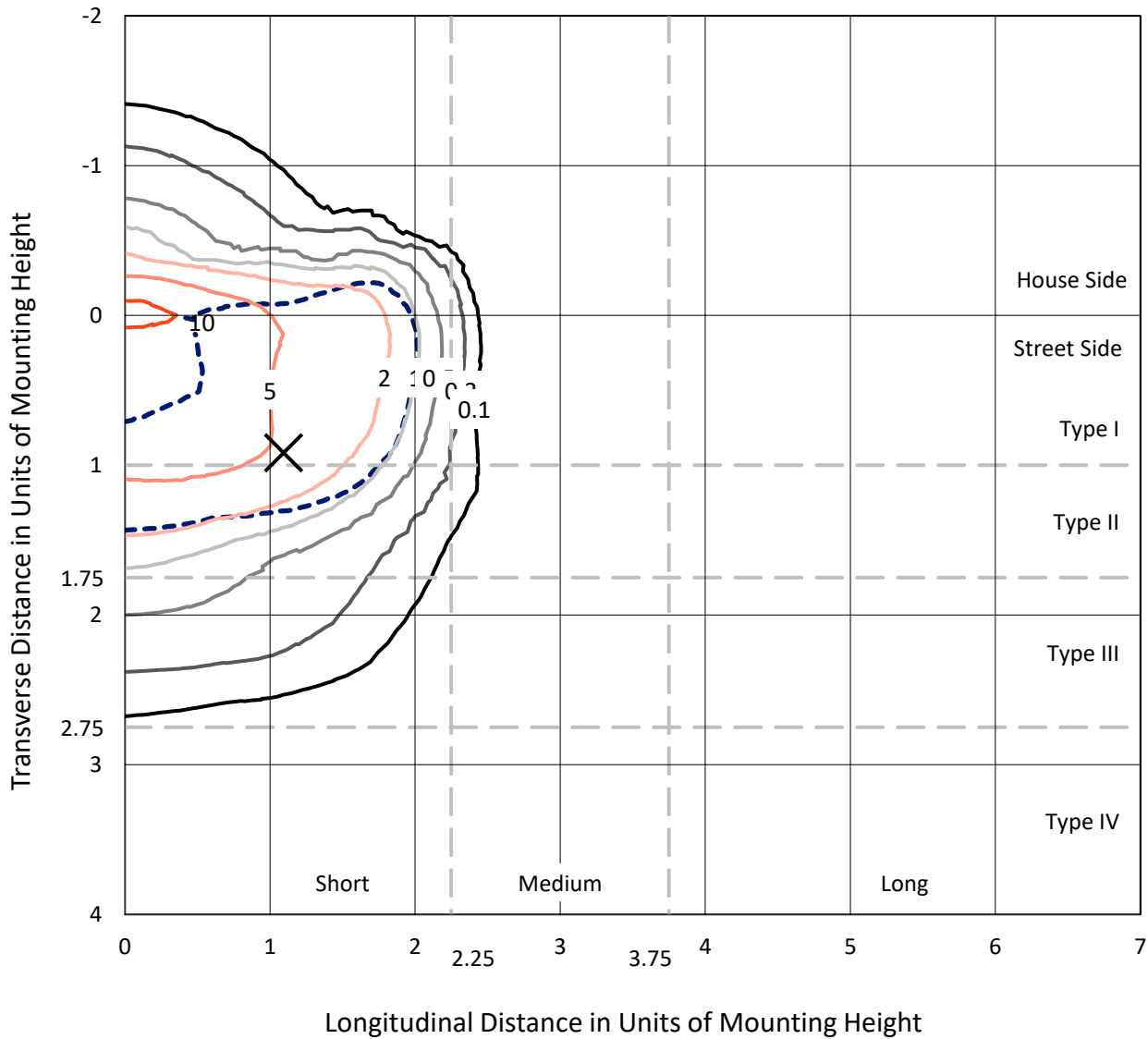
Lumens per Lamp: N/A  
Luminaire Lumens: 13094.3 lumens  
Efficiency: N/A  
Efficacy: 80.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

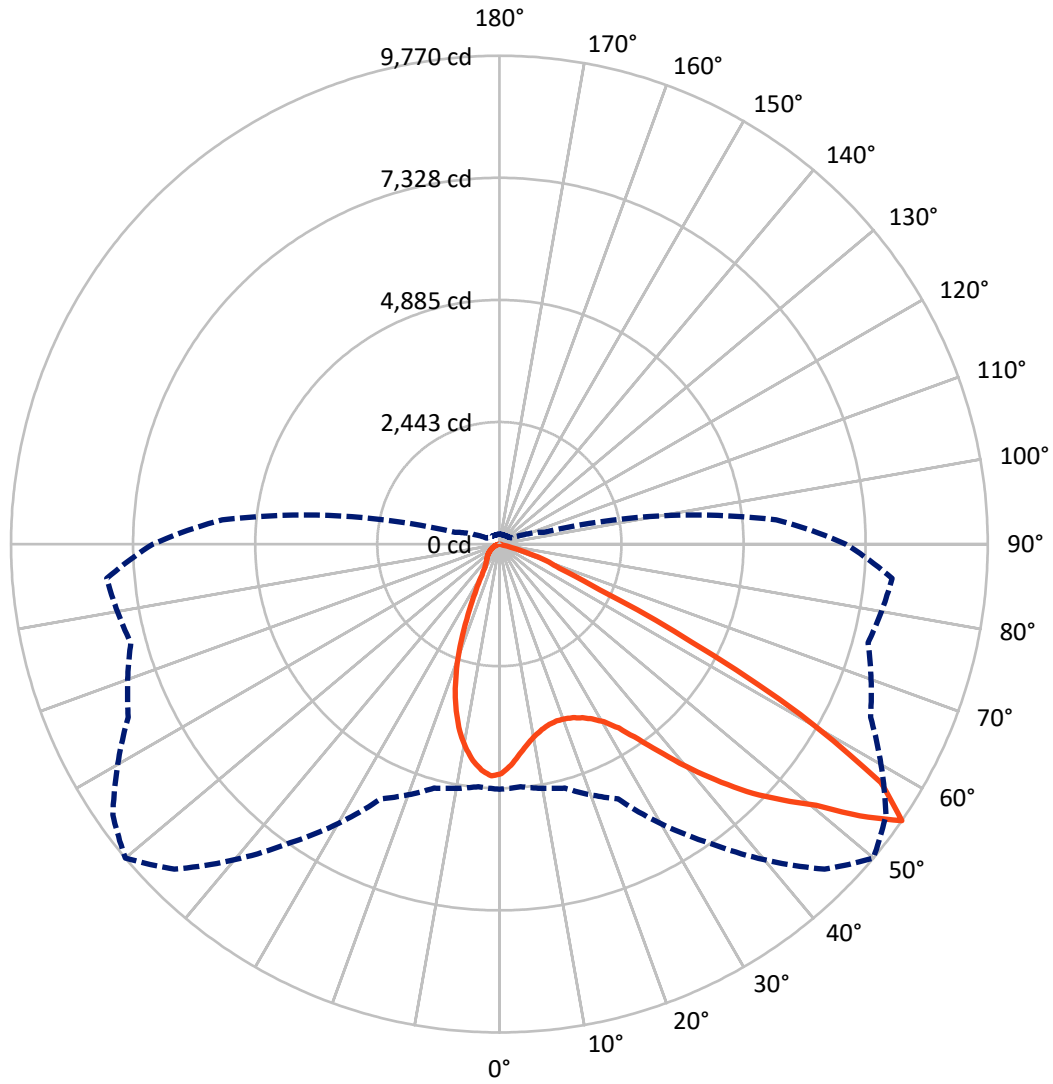
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.5 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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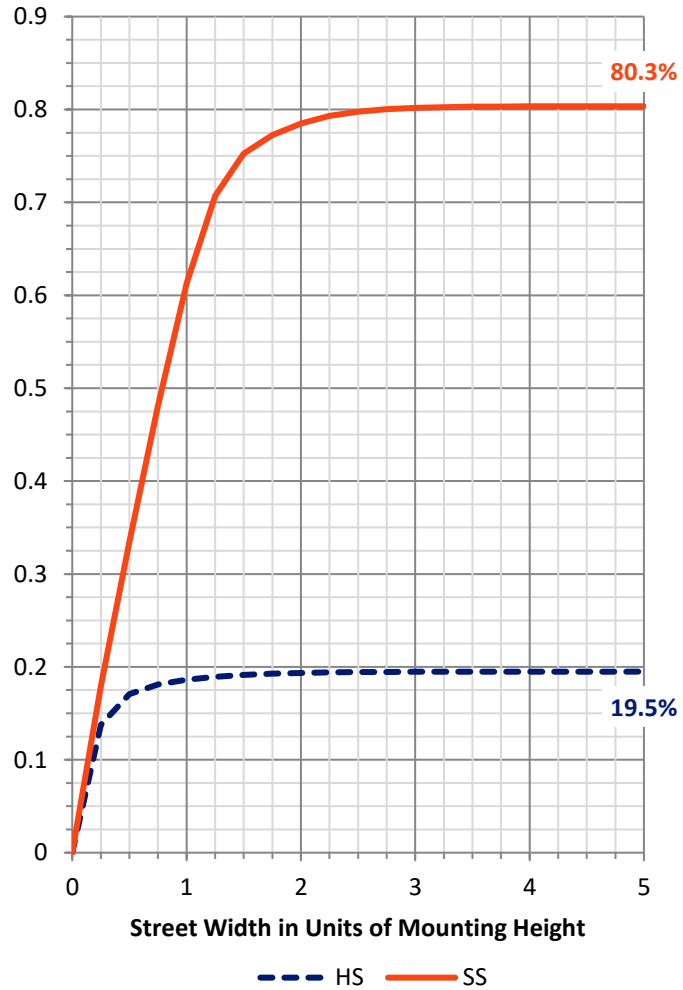
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2580.2	0.0	2580.2
	% Fixture	19.7	0.0	19.7
<b>Street Side</b>	Lumens	10514.1	0.0	10514.1
	% Fixture	80.3	0.0	80.3
<b>Total</b>	Lumens	13094.3	0.0	13094.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	403.5	3.1
10°-20°	992.9	7.6
20°-30°	1400.5	10.7
30°-40°	2072.4	15.8
40°-50°	2989.8	22.8
50°-60°	3526.7	26.9
60°-70°	1573.2	12.0
70°-80°	135.3	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°	13094.3	100.0
0°-180°	13094.3	100.0

**Coefficient of Utilization**



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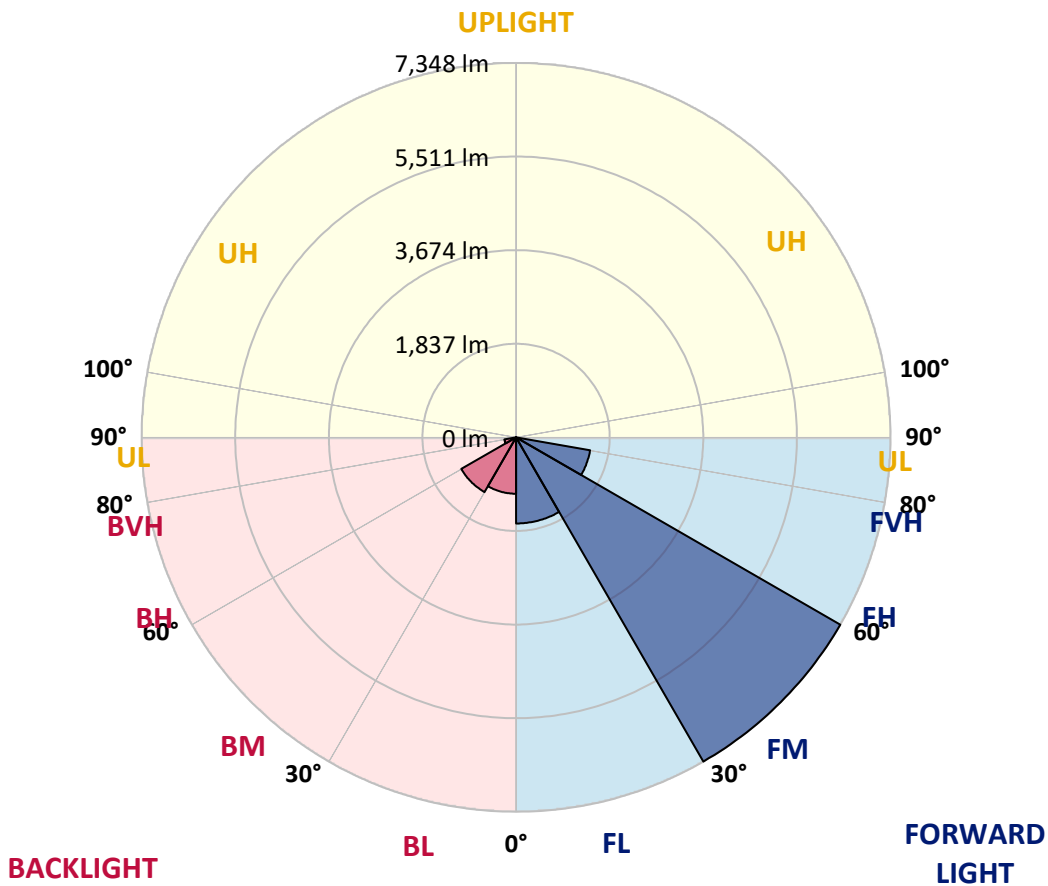
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.5	12.9			
FM (30°-60°)	7348.1	56.1			
FH (60°-80°)	1475.5	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1106.3	8.4	B3/2500		
BM (30°-60°)	1240.9	9.5	B2/2500		
BH (60°-80°)	233.0	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	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°	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2
2.5°	4268.1	4271.3	4272.9	4316.1	4332.0	4396.0	4429.6	4447.1	4493.5	4547.9	4592.6
5°	3982.0	3977.2	3985.2	4039.5	4074.7	4169.0	4220.1	4255.3	4357.6	4485.5	4592.6
7.5°	3732.6	3742.2	3751.8	3810.9	3863.7	3966.0	4039.5	4092.3	4234.5	4424.8	4605.4
10°	3556.8	3556.8	3571.1	3638.3	3700.6	3826.9	3900.4	3967.6	4137.0	4370.4	4619.8
12.5°	3427.3	3428.9	3446.5	3523.2	3595.1	3726.2	3802.9	3868.5	4055.5	4316.1	4623.0
15°	3366.5	3361.7	3376.1	3457.6	3537.6	3660.7	3740.6	3804.5	3998.0	4285.7	4639.0
17.5°	3350.5	3347.3	3358.5	3438.5	3520.0	3639.9	3718.2	3782.1	3990.0	4295.3	4686.9
20°	3396.9	3390.5	3385.7	3454.4	3531.2	3649.5	3731.0	3802.9	4028.3	4348.0	4760.5
22.5°	3507.2	3507.2	3496.0	3529.6	3580.7	3687.8	3772.6	3866.9	4129.0	4453.5	4869.2
25°	3710.2	3694.2	3673.4	3687.8	3681.4	3748.6	3849.3	3980.4	4319.3	4627.8	5001.8
27.5°	3942.0	3956.4	3921.2	3922.8	3866.9	3842.9	3959.6	4157.8	4602.2	4874.0	5198.5
30°	4256.9	4245.7	4247.3	4242.5	4113.0	3999.6	4125.8	4389.6	4958.7	5249.6	5454.2
32.5°	4503.1	4519.1	4571.8	4602.2	4432.8	4250.5	4384.8	4704.5	5364.7	5678.0	5767.5
35°	4763.7	4792.4	4899.5	4998.6	4856.4	4647.0	4790.8	5121.7	5746.8	6101.6	6127.2
37.5°	5038.6	5096.2	5224.0	5398.3	5375.9	5190.5	5321.5	5612.5	6047.3	6357.4	6424.5
40°	5353.5	5409.5	5618.9	5869.8	5922.6	5881.0	5924.2	6093.6	6245.5	6368.6	6552.4
42.5°	5698.8	5775.5	6040.9	6376.6	6574.8	6611.6	6510.9	6493.3	6331.8	6240.7	6525.2
45°	6106.4	6195.9	6496.5	6931.3	7246.2	7295.7	7121.5	6896.1	6386.2	6146.4	6443.7
47.5°	6563.6	6648.3	6947.3	7470.0	7938.4	7957.5	7653.8	7290.9	6547.6	6255.1	6506.1
50°	6717.1	6769.8	7028.8	7642.6	8505.8	8652.9	8213.3	7735.3	6872.1	6574.8	6809.8
52.5°	6189.6	6210.3	6435.7	7056.0	8390.7	9335.5	9030.2	8398.7	7449.2	7062.4	7278.2
55°	4904.3	4870.8	5053.0	5622.1	7292.5	9196.4	9770.3	9441.0	8192.5	7634.6	7887.2
57.5°	3430.5	3390.5	3348.9	3734.2	5441.4	7796.1	9003.0	9586.5	8900.7	8202.1	8544.2
60°	2819.8	2781.5	2580.0	2402.6	3289.8	5598.1	6915.3	8013.5	8843.1	8173.3	8523.4
62.5°	2436.2	2413.8	2332.3	2090.9	1935.8	3195.5	4330.4	5382.3	6785.8	6418.1	6437.3
65°	1913.5	1907.1	1963.0	1988.6	1712.0	1768.0	2209.2	2797.4	3668.7	3459.2	3280.2
67.5°	1307.6	1293.2	1398.7	1720.0	1646.5	1395.5	1293.2	1304.4	1587.4	970.3	770.5
70°	831.2	797.7	799.3	1066.2	1339.6	1101.4	997.5	877.6	789.7	143.9	163.1
72.5°	532.3	511.5	439.6	481.2	620.2	537.1	541.9	466.8	311.7	76.7	89.5
75°	223.8	206.2	158.3	126.3	124.7	78.3	68.7	63.9	43.2	43.2	46.4
77.5°	1.6	0.0	0.0	1.6	3.2	1.6	1.6	3.2	6.4	9.6	11.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6
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°	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2	4594.2
2.5°	4619.8	4581.4	4624.6	4640.6	4639.0	4640.6	4594.2	4562.2	4560.6	4520.7	4501.5
5°	4637.4	4607.0	4639.0	4618.2	4568.6	4506.3	4423.2	4351.2	4319.3	4272.9	4250.5
7.5°	4670.9	4639.0	4634.2	4551.0	4428.0	4296.9	4149.8	4018.7	3948.4	3863.7	3868.5
10°	4694.9	4658.2	4595.8	4426.4	4221.7	4012.3	3793.3	3598.3	3475.2	3361.7	3342.6
12.5°	4704.5	4650.2	4504.7	4248.9	3961.2	3687.8	3366.5	3088.4	2896.6	2747.9	2727.1
15°	4722.1	4634.2	4388.0	4034.7	3639.9	3253.0	2843.8	2463.4	2209.2	2038.1	2052.5
17.5°	4749.3	4616.6	4256.9	3794.9	3294.6	2747.9	2194.8	1758.4	1525.0	1425.9	1427.5
20°	4787.6	4595.8	4113.0	3531.2	2880.6	2177.2	1534.6	1205.3	1139.8	1136.6	1131.8
22.5°	4838.8	4575.0	3959.6	3241.8	2389.8	1525.0	1021.5	919.2	946.3	999.1	1008.7
25°	4899.5	4549.4	3788.5	2915.7	1854.3	1000.7	765.7	749.7	815.3	885.6	901.6
27.5°	4993.8	4536.7	3593.5	2544.9	1301.2	717.7	626.6	636.2	695.4	754.5	768.9
30°	5153.7	4560.6	3380.9	2129.3	836.0	572.3	543.5	557.9	589.9	620.2	633.0
32.5°	5371.1	4631.0	3174.7	1675.3	596.3	497.1	490.8	498.7	511.5	529.1	533.9
35°	5625.3	4752.5	2962.1	1198.9	492.4	454.0	447.6	447.6	454.0	457.2	458.8
37.5°	5834.7	4880.3	2762.3	797.7	441.2	420.4	410.8	406.0	404.4	407.6	409.2
40°	5925.8	4933.1	2544.9	580.3	404.4	390.0	375.7	361.3	361.3	372.5	374.1
42.5°	5861.9	4874.0	2293.9	479.6	378.9	358.1	335.7	322.9	329.3	340.5	343.7
45°	5726.0	4728.5	2017.4	423.6	353.3	326.1	300.5	292.5	298.9	313.3	316.5
47.5°	5703.6	4632.6	1686.5	386.8	326.1	298.9	271.8	263.8	271.8	282.9	286.1
50°	5925.8	4715.7	1318.8	354.9	300.5	270.2	247.8	239.8	244.6	251.0	254.2
52.5°	6331.8	5024.2	1064.6	324.5	270.2	241.4	227.0	217.4	217.4	223.8	225.4
55°	6931.3	5562.9	919.2	289.3	235.0	219.0	206.2	196.6	196.6	199.8	201.4
57.5°	7621.8	6215.1	952.7	243.0	206.2	198.2	187.0	179.0	182.2	182.2	182.2
60°	7525.9	6167.2	1019.9	204.6	182.2	179.0	169.4	166.2	174.2	167.8	164.6
62.5°	5543.7	4260.1	533.9	167.8	156.7	153.5	147.1	153.5	164.6	147.1	140.7
65°	2691.9	2062.1	214.2	137.5	132.7	129.5	126.3	135.9	142.3	115.1	108.7
67.5°	633.0	514.7	139.1	116.7	110.3	103.9	107.1	108.7	103.9	78.3	75.1
70°	164.6	161.5	108.7	97.5	87.9	81.5	81.5	79.9	68.7	49.6	46.4
72.5°	89.5	87.9	78.3	73.5	60.7	54.4	55.9	49.6	38.4	28.8	27.2
75°	44.8	48.0	44.8	41.6	33.6	30.4	30.4	27.2	19.2	11.2	11.2
77.5°	9.6	11.2	11.2	9.6	8.0	6.4	6.4	8.0	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	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)