

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: P640149

Luminaire Tested: GWS-SA5D-730-U-T3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-730-U-T3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: (80) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

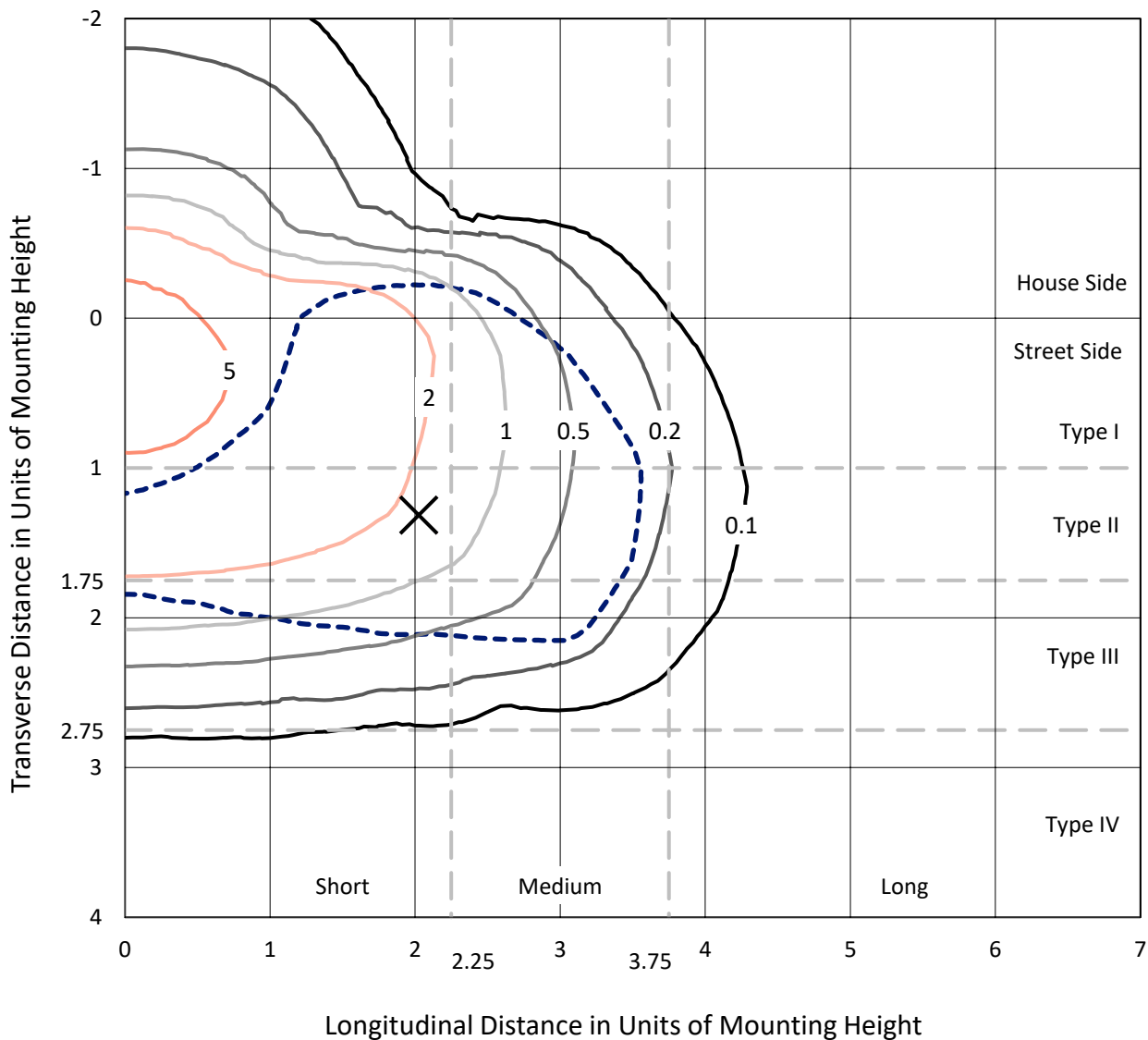
Lumens per Lamp: N/A  
Luminaire Lumens: 27374.4 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

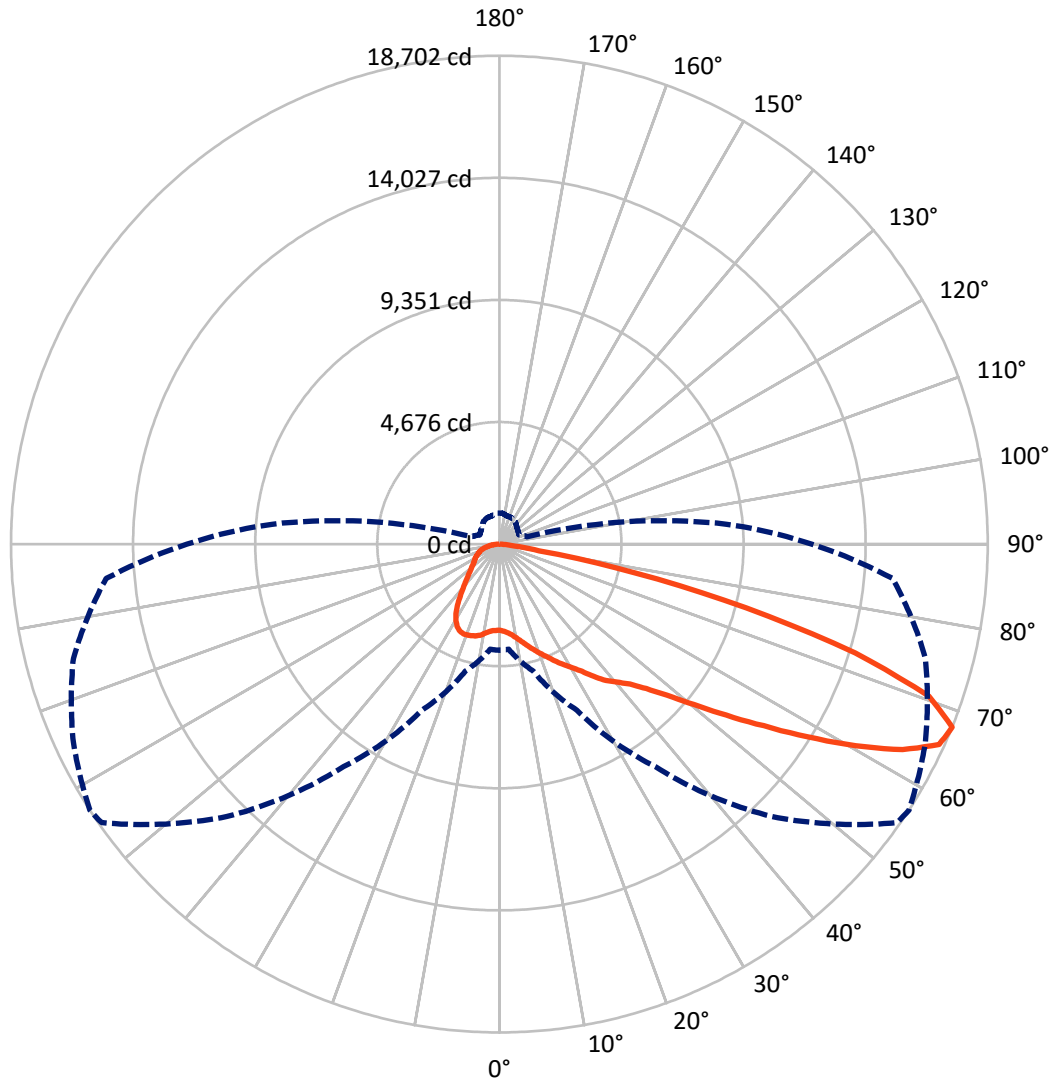
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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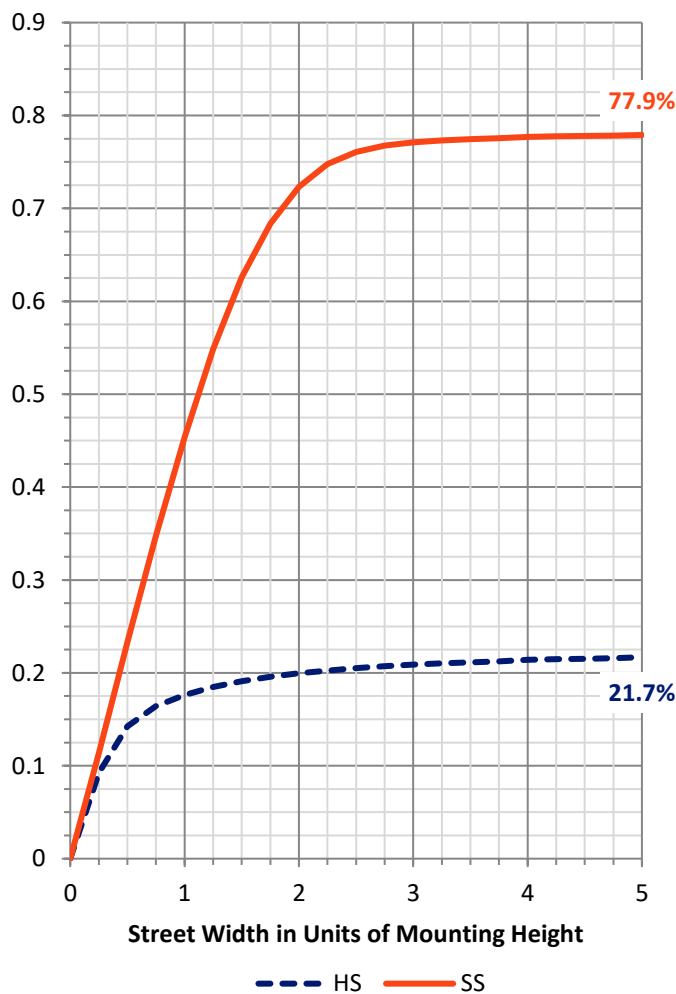
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6018.6	0.0	6018.6
	% Fixture	22.0	0.0	22.0
<b>Street Side</b>	Lumens	21355.8	0.0	21355.8
	% Fixture	78.0	0.0	78.0
<b>Total</b>	Lumens	27374.4	0.0	27374.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.1	1.2
10°-20°	1083.0	4.0
20°-30°	1930.8	7.1
30°-40°	2807.1	10.3
40°-50°	4062.8	14.8
50°-60°	6358.1	23.2
60°-70°	7417.1	27.1
70°-80°	3096.2	11.3
80°-90°	292.2	1.1
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°	27374.4	100.0
0°-180°	27374.4	100.0

**Coefficient of Utilization**



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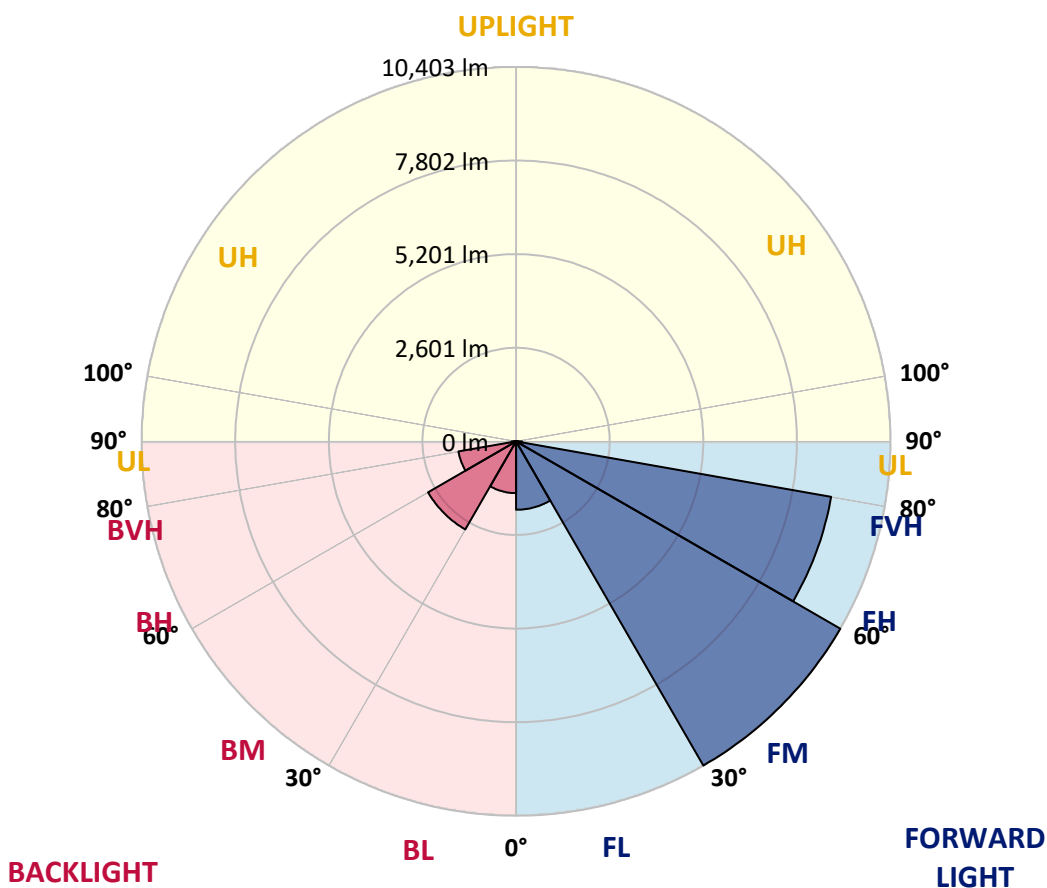
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1901.4	6.9			
FM (30°-60°)	10402.7	38.0			
FH (60°-80°)	8888.9	32.5			G4/12000
FVH (80°-90°)	162.8	0.6			G2/225
BL (0°-30°)	1439.5	5.3	B3/2500		
BM (30°-60°)	2825.3	10.3	B3/5000		
BH (60°-80°)	1624.4	5.9	B3/2500		G3/2500
BVH (80°-90°)	129.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4
2.5°	3345.5	3341.6	3339.6	3351.4	3347.5	3345.5	3345.5	3343.5	3339.6	3323.9	3302.4
5°	3437.7	3429.8	3422.0	3431.8	3423.9	3416.1	3414.1	3410.2	3396.5	3372.9	3339.6
7.5°	3533.8	3525.9	3527.9	3533.8	3527.9	3523.9	3518.1	3514.1	3492.6	3455.3	3410.2
10°	3669.1	3669.1	3673.0	3678.9	3680.8	3674.9	3663.2	3657.3	3631.8	3584.7	3522.0
12.5°	3865.2	3861.2	3861.2	3857.3	3863.2	3857.3	3845.6	3835.7	3804.4	3743.6	3653.4
15°	4124.0	4108.3	4094.6	4069.1	4061.3	4039.7	4043.6	4037.7	4008.3	3926.0	3812.2
17.5°	4400.5	4398.6	4377.0	4326.0	4275.0	4239.7	4247.6	4245.6	4229.9	4118.1	3973.0
20°	4643.7	4653.5	4633.9	4594.7	4526.0	4459.4	4455.4	4465.2	4445.6	4333.8	4131.9
22.5°	4916.3	4908.4	4888.8	4837.8	4786.8	4716.2	4692.7	4684.9	4677.0	4549.6	4294.6
25°	5175.1	5198.7	5173.2	5126.1	5047.7	4971.2	4951.6	4959.4	4937.8	4769.2	4469.2
27.5°	5502.6	5512.4	5496.7	5432.0	5365.3	5257.5	5220.2	5220.2	5212.4	4975.1	4606.4
30°	5851.7	5879.1	5851.7	5798.7	5730.1	5575.2	5494.8	5486.9	5463.4	5186.9	4767.2
32.5°	6202.7	6222.3	6202.7	6151.7	6073.3	5938.0	5822.3	5804.6	5773.2	5418.3	4932.0
35°	6514.5	6532.1	6528.2	6540.0	6475.3	6304.7	6234.1	6226.2	6143.9	5720.3	5155.5
37.5°	6855.7	6877.3	6847.9	6871.4	6845.9	6685.1	6663.5	6624.3	6506.7	6004.6	5390.8
40°	7244.0	7263.6	7216.5	7226.3	7196.9	7106.7	6996.9	6944.0	6769.4	6312.5	5761.5
42.5°	7659.7	7704.8	7726.4	7708.8	7640.1	7589.1	7397.0	7330.3	7185.2	6867.5	6371.3
45°	8261.8	8328.4	8359.8	8314.7	8285.3	8212.7	7977.4	7897.0	7820.5	7649.9	7222.4
47.5°	8910.9	8971.6	9071.7	9091.3	9114.8	9059.9	8728.5	8650.0	8663.8	8644.2	8269.6
50°	9428.6	9479.6	9705.1	9946.3	10146.3	10162.0	9738.4	9654.1	9728.6	9791.4	9530.5
52.5°	9805.1	9850.2	10148.3	10646.4	11099.4	11434.7	10977.8	10881.7	10942.5	11083.7	10964.0
55°	10111.0	10173.8	10485.6	11250.3	12166.1	12695.6	12403.4	12281.8	12256.3	12430.9	12499.5
57.5°	10271.8	10291.4	10728.7	11723.0	12948.6	13933.0	14060.5	13923.2	13680.0	13776.1	14133.0
60°	9905.1	9938.4	10536.5	11844.5	13566.3	15160.6	15799.9	15686.2	15168.5	15221.4	15615.6
62.5°	8891.2	8938.3	9658.0	11266.0	13617.3	15980.3	17406.0	17333.4	16639.2	16352.9	16470.6
65°	7132.2	7147.9	7893.1	9834.5	12603.4	16082.3	18525.7	18508.1	17666.8	16996.1	16492.1
67.5°	4067.1	4039.7	5035.9	7014.6	10401.2	14756.6	18598.3	18702.2	18000.2	16890.2	15119.4
70°	1763.0	1766.9	2225.8	3461.2	6732.2	11926.9	17274.6	17453.0	17035.3	15127.3	12028.9
72.5°	815.8	827.5	1025.6	1498.2	2874.8	7398.9	14086.0	14246.8	13887.9	12107.3	8752.0
75°	576.5	586.3	684.4	858.9	1321.7	2882.7	9422.7	9760.0	9934.5	9056.0	5767.3
77.5°	437.3	451.0	500.1	596.1	815.8	1021.7	4508.4	5312.4	6328.2	5634.0	2970.9
80°	278.5	278.5	331.4	398.1	498.1	531.4	1302.1	1543.3	3096.4	2321.8	1166.8
82.5°	188.3	194.1	225.5	253.0	286.3	302.0	558.9	596.1	894.2	790.3	480.4
85°	100.0	103.9	117.7	115.7	137.3	119.6	235.3	233.4	327.5	358.9	182.4
87.5°	0.0	0.0	2.0	2.0	3.9	5.9	25.5	27.5	68.6	109.8	60.8
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°	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4	3298.4
2.5°	3314.1	3290.6	3302.4	3298.4	3310.2	3310.2	3288.6	3282.7	3284.7	3261.2	3253.3
5°	3343.5	3316.1	3322.0	3314.1	3325.9	3335.7	3325.9	3325.9	3337.6	3320.0	3310.2
7.5°	3410.2	3378.8	3378.8	3369.0	3382.8	3390.6	3382.8	3394.5	3416.1	3398.4	3388.6
10°	3516.1	3478.8	3480.8	3469.0	3474.9	3471.0	3439.6	3429.8	3435.7	3420.0	3412.2
12.5°	3653.4	3602.4	3602.4	3578.9	3565.1	3523.9	3459.2	3435.7	3439.6	3425.9	3420.0
15°	3784.8	3737.7	3727.9	3680.8	3618.1	3541.6	3482.8	3467.1	3471.0	3457.3	3447.5
17.5°	3939.7	3878.9	3843.6	3757.3	3641.6	3563.2	3504.3	3467.1	3435.7	3404.3	3396.5
20°	4082.8	4006.4	3941.6	3808.3	3667.1	3559.2	3449.4	3357.3	3280.8	3239.6	3229.8
22.5°	4229.9	4131.9	4018.1	3843.6	3665.1	3488.6	3286.7	3147.4	3033.7	2972.9	2984.7
25°	4369.1	4245.6	4090.7	3876.9	3602.4	3331.8	3057.2	2849.4	2719.9	2672.9	2659.1
27.5°	4484.8	4331.9	4157.4	3861.2	3473.0	3106.2	2743.5	2512.1	2386.6	2333.6	2319.9
30°	4614.3	4441.7	4253.4	3788.7	3269.0	2790.5	2388.5	2200.3	2110.1	2059.1	2061.0
32.5°	4763.3	4582.9	4388.8	3649.5	3008.2	2449.3	2096.3	1966.9	1894.3	1843.4	1835.5
35°	4963.3	4784.9	4479.0	3439.6	2676.8	2135.5	1896.3	1790.4	1700.2	1633.5	1619.8
37.5°	5210.4	5088.8	4488.8	3159.2	2321.8	1919.8	1753.1	1639.4	1529.6	1441.3	1431.5
40°	5634.0	5494.8	4408.4	2808.2	2019.8	1780.6	1633.5	1502.1	1374.7	1276.6	1262.9
42.5°	6238.0	5951.7	4235.8	2412.0	1792.4	1670.8	1519.8	1353.1	1223.7	1155.0	1145.2
45°	7006.7	6461.5	3976.9	2039.5	1623.7	1562.9	1400.2	1225.6	1157.0	1108.0	1098.2
47.5°	7948.0	7055.7	3678.9	1749.2	1492.3	1464.9	1278.6	1182.5	1121.7	1080.5	1070.7
50°	9073.6	7812.7	3433.7	1521.7	1374.7	1351.1	1239.4	1157.0	1108.0	1074.6	1066.8
52.5°	10358.1	8654.0	3314.1	1359.0	1272.7	1249.2	1225.6	1151.1	1109.9	1084.4	1074.6
55°	11691.6	9540.3	3202.3	1233.5	1186.4	1200.1	1227.6	1170.7	1139.4	1106.0	1096.2
57.5°	12980.0	10371.8	2927.8	1135.4	1123.7	1176.6	1237.4	1190.3	1153.1	1119.7	1108.0
60°	13868.3	10826.8	2463.0	1057.0	1076.6	1147.2	1211.9	1160.9	1113.9	1100.1	1094.2
62.5°	14107.5	10771.9	1912.0	976.6	1019.7	1082.5	1145.2	1111.9	1062.9	1084.4	1086.4
65°	13548.7	10183.6	1435.5	898.1	945.2	998.2	1076.6	1062.9	1045.2	1104.1	1106.0
67.5°	11966.1	8738.3	1094.2	829.5	868.7	933.4	1055.0	1111.9	1115.8	1190.3	1182.5
70°	9054.0	6528.2	857.0	764.8	809.9	933.4	1123.7	1149.2	1102.1	1170.7	1155.0
72.5°	6259.6	4308.4	729.5	707.9	737.3	890.3	1121.7	1121.7	1070.7	1070.7	1041.3
75°	3888.7	2533.6	635.4	635.4	635.4	778.5	1090.3	1033.5	943.2	902.1	878.5
77.5°	1919.8	1231.5	533.4	553.0	531.4	651.1	890.3	845.2	790.3	747.1	731.5
80°	819.7	615.8	431.4	453.0	427.5	490.3	706.0	696.2	643.2	586.3	568.7
82.5°	376.5	317.7	345.1	354.9	311.8	368.7	515.7	515.7	486.3	407.9	378.5
85°	160.8	168.6	239.2	239.2	196.1	207.9	276.5	262.8	235.3	192.2	176.5
87.5°	54.9	82.4	121.6	105.9	41.2	17.6	9.8	3.9	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)