

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: P642618

Luminaire Tested: GWS-SA6D-730-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642618  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-730-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

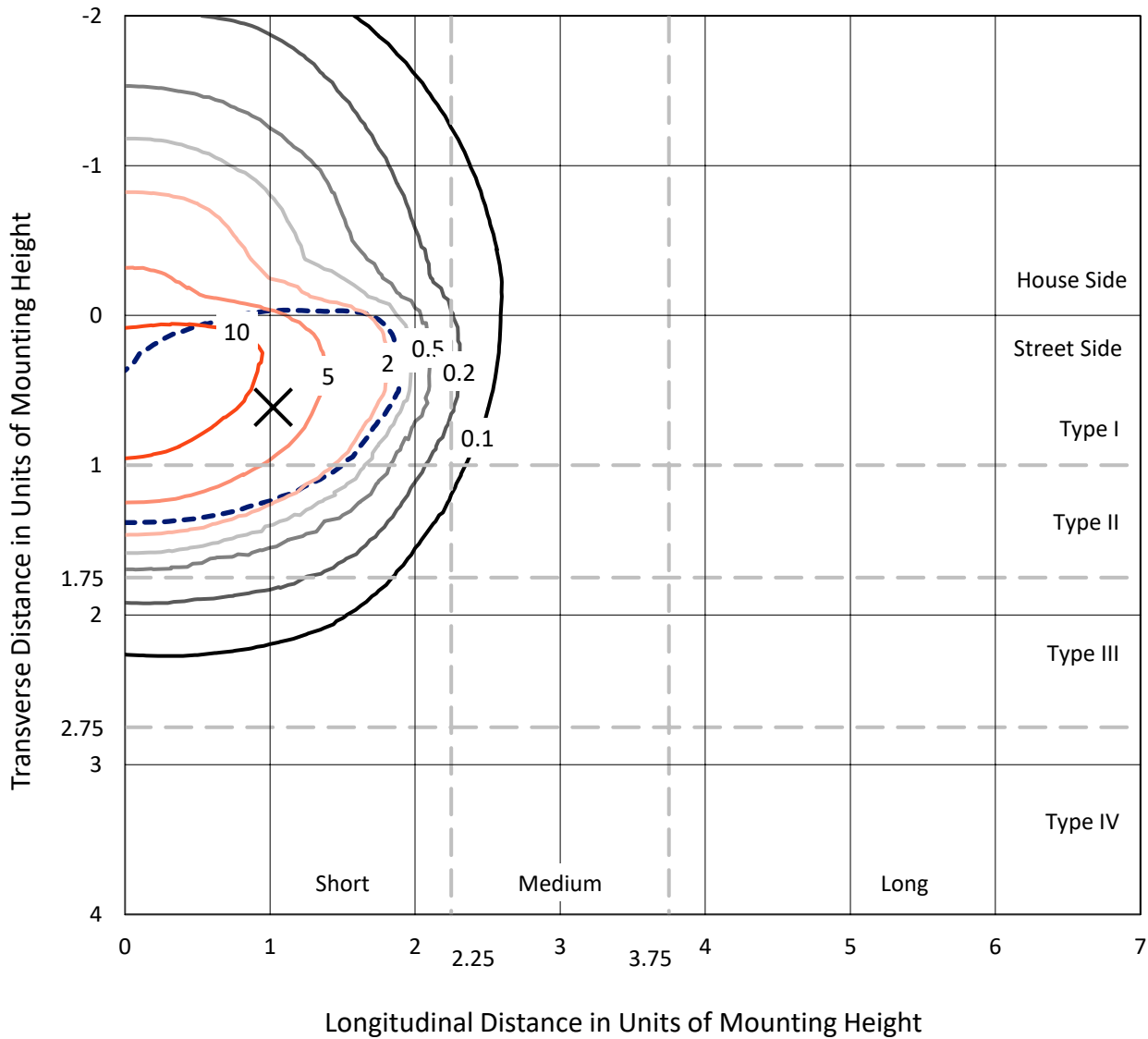
Lumens per Lamp: N/A  
Luminaire Lumens: 28708.8 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

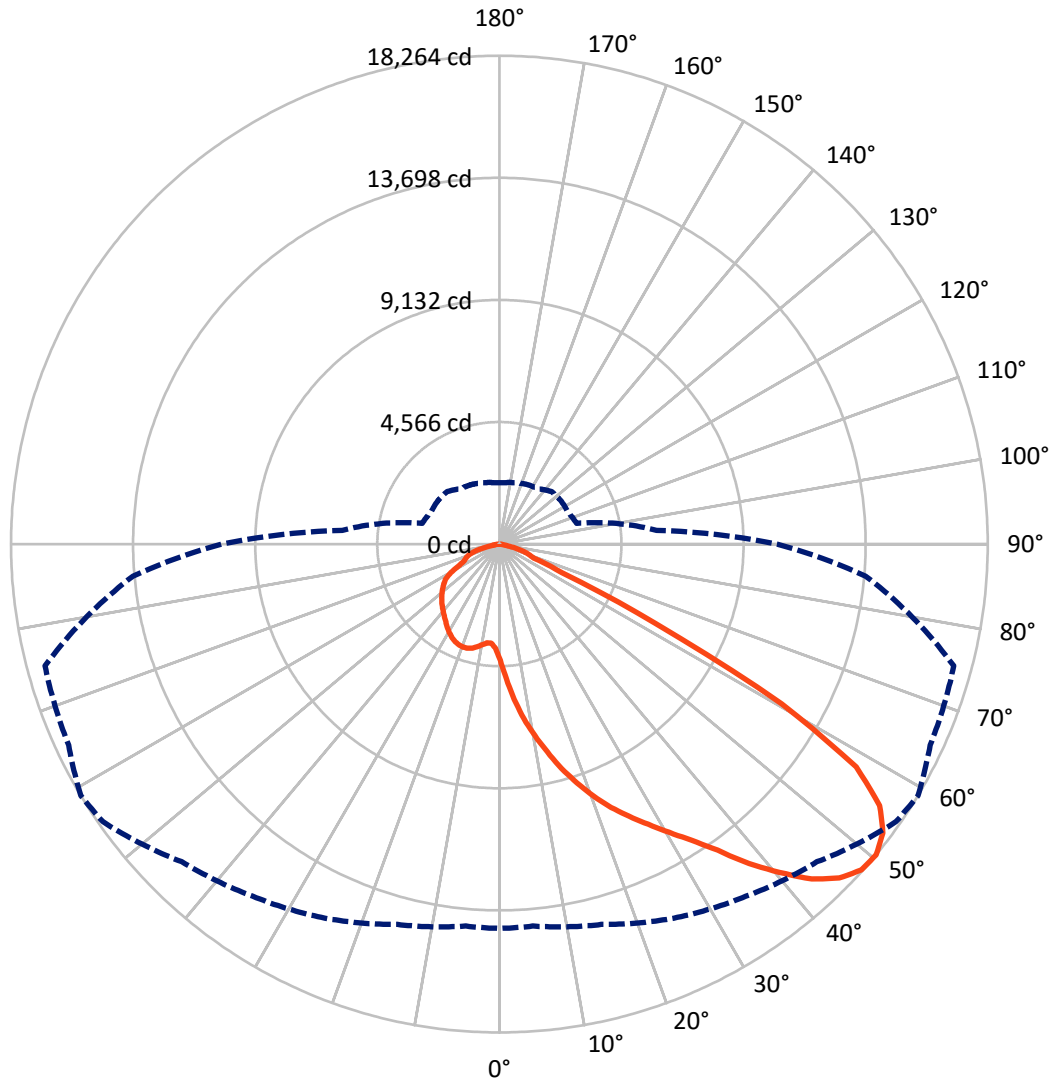
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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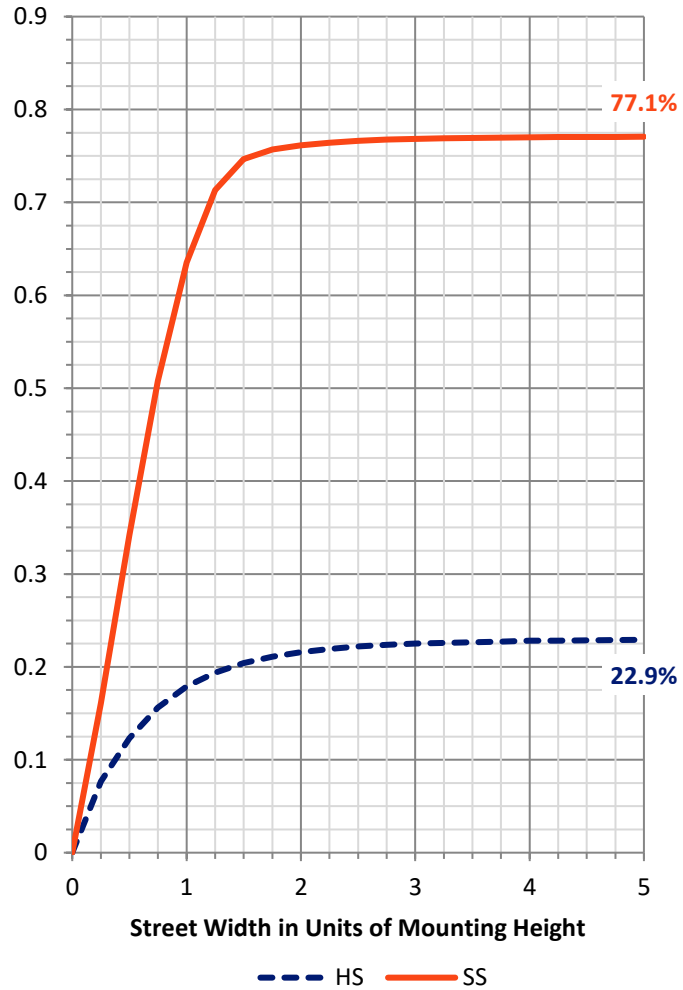
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6603.6	0.0	6603.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	22105.2	0.0	22105.2
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	28708.8	0.0	28708.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.9	1.7
10°-20°	1771.3	6.2
20°-30°	3354.2	11.7
30°-40°	5562.3	19.4
40°-50°	7598.4	26.5
50°-60°	6897.4	24.0
60°-70°	2296.9	8.0
70°-80°	669.9	2.3
80°-90°	70.4	0.2
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°	28708.8	100.0
0°-180°	28708.8	100.0

**Coefficient of Utilization**



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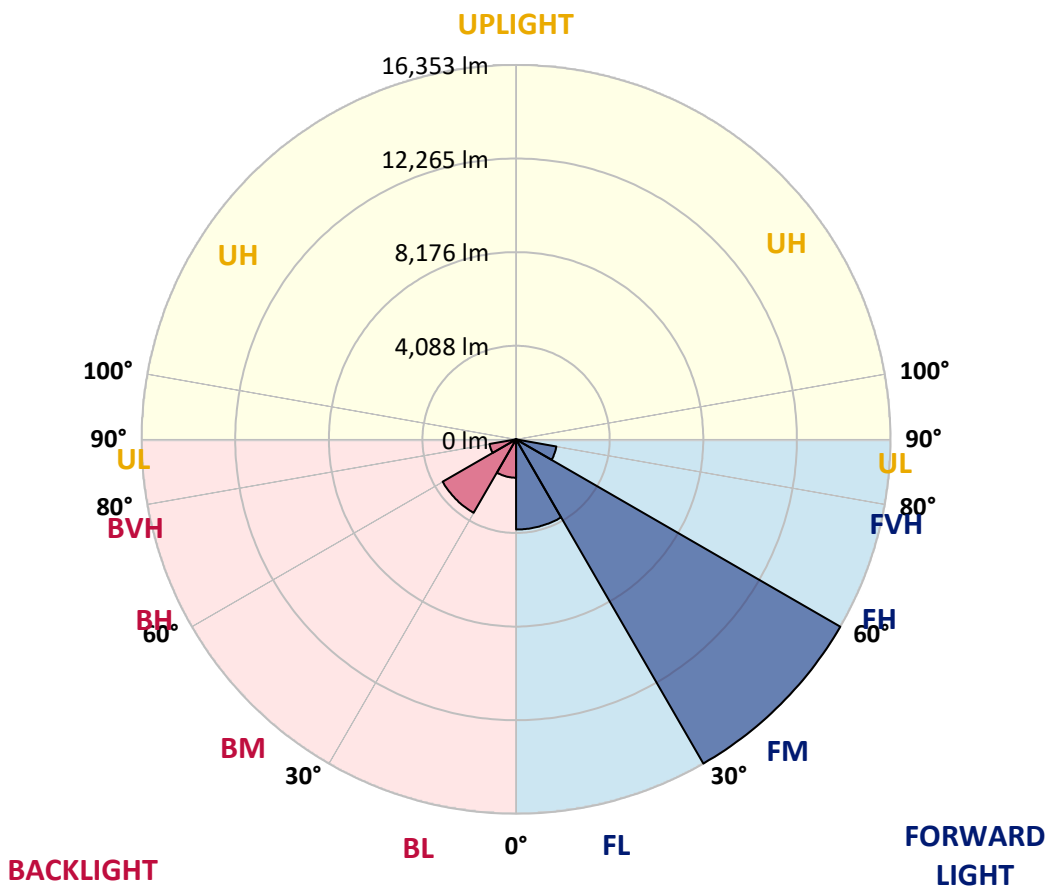
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3936.7	13.7			
FM (30°-60°)	16352.9	57.0			
FH (60°-80°)	1788.2	6.2			G1/1800
FVH (80°-90°)	27.5	0.1			G1/100
BL (0°-30°)	1676.8	5.8	B3/2500		
BM (30°-60°)	3705.2	12.9	B3/5000		
BH (60°-80°)	1178.7	4.1	B3/2500		G3/2500
BVH (80°-90°)	42.8	0.1			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°	59°	65°	75°	85°
0°	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6
2.5°	5635.8	5677.8	5612.4	5617.0	5453.4	5378.5	5168.1	5044.1	4962.3	4733.1	4525.0
5°	6772.3	6723.2	6671.7	6641.3	6498.7	6297.5	6035.6	5827.5	5635.8	5186.8	4754.1
7.5°	7469.1	7443.4	7408.3	7389.6	7249.3	7038.8	6776.9	6599.2	6320.9	5712.9	5032.4
10°	8060.8	8030.4	8009.3	8023.3	7908.8	7773.1	7487.8	7284.4	6971.0	6269.5	5369.2
12.5°	8519.1	8535.5	8542.5	8617.3	8568.2	8486.4	8191.7	7976.6	7628.1	6856.4	5764.4
15°	8881.6	8876.9	8958.7	9101.4	9180.9	9129.5	8893.3	8713.2	8287.6	7434.1	6190.0
17.5°	8965.8	8970.4	9099.1	9349.3	9608.8	9735.1	9601.8	9386.7	8965.8	8004.6	6631.9
20°	9033.6	9042.9	9176.2	9461.5	9840.4	10193.5	10214.5	10060.2	9697.7	8622.0	7080.9
22.5°	9461.5	9482.6	9517.6	9697.7	10039.1	10485.8	10731.3	10698.6	10394.6	9269.8	7565.0
25°	10586.3	10523.2	10352.5	10301.0	10432.0	10794.5	11213.0	11276.2	11126.5	9983.0	8086.5
27.5°	11975.4	11907.6	11655.0	11388.4	11105.5	11231.8	11678.4	11867.8	11870.2	10768.7	8610.3
30°	13235.8	13182.1	12976.3	12595.1	12106.3	11923.9	12253.7	12508.6	12660.6	11676.1	9206.6
32.5°	14313.9	14264.8	13986.5	13675.5	13198.4	12831.3	12950.5	13196.1	13551.5	12850.0	9947.9
35°	15221.2	15172.1	14905.5	14592.2	14150.2	13930.4	13888.3	14056.6	14517.3	14075.4	10799.1
37.5°	15957.8	15908.7	15630.4	15335.8	14999.1	15013.1	15076.2	15158.1	15422.3	15387.2	11708.8
40°	16434.9	16383.4	16184.7	15974.2	15761.4	15929.8	16243.1	16144.9	16285.2	16446.6	12546.0
42.5°	16647.7	16582.2	16467.6	16420.9	16355.4	16617.3	17220.6	17122.4	16954.0	17152.8	13168.0
45°	16434.9	16378.8	16376.4	16519.1	16671.1	17007.8	17896.4	17816.9	17391.3	17494.2	13539.8
47.5°	15782.5	15733.3	15866.6	16240.8	16615.0	17106.0	18198.1	18212.1	17702.3	17636.9	13780.7
50°	14372.3	14339.6	14725.5	15434.0	16079.4	16799.7	18102.2	18263.6	17777.2	17592.4	13750.3
52.5°	11505.4	11657.4	12496.9	13680.2	14933.6	16261.8	17746.8	17957.2	17417.1	17300.1	13586.6
55°	7876.0	7946.2	8785.7	10513.8	12501.6	15097.3	16930.6	17255.7	16991.4	17251.0	13757.3
57.5°	4078.3	4134.4	4796.2	6330.3	8479.4	11931.0	14664.7	15731.0	16133.2	17498.9	14288.2
60°	1674.4	1721.1	1994.7	2736.0	4277.1	6947.6	10553.6	12134.4	13079.2	15981.2	12688.6
62.5°	1216.0	1239.4	1370.4	1632.3	2240.3	3404.8	5972.5	6554.8	7218.9	10015.7	8056.1
65°	1024.3	1050.0	1155.2	1314.2	1634.6	2088.3	2551.3	2565.3	2827.2	4080.7	2986.2
67.5°	858.2	881.6	975.1	1110.8	1321.2	1482.6	1370.4	1372.7	1368.0	1480.3	1431.2
70°	668.8	687.5	781.1	926.0	1035.9	951.8	1071.0	1185.6	1136.5	1180.9	1248.8
72.5°	488.7	509.8	591.6	701.5	673.5	678.2	867.6	984.5	956.4	1005.5	1068.7
75°	353.1	367.1	409.2	350.8	369.5	446.7	610.3	673.5	701.5	743.6	799.8
77.5°	114.6	114.6	128.6	161.4	201.1	247.9	311.0	336.7	378.8	425.6	465.4
80°	58.5	60.8	72.5	88.9	112.2	142.6	182.4	194.1	215.1	240.9	257.2
82.5°	28.1	30.4	35.1	44.4	58.5	74.8	100.6	112.2	126.3	142.6	154.3
85°	7.0	7.0	9.4	14.0	18.7	28.1	37.4	44.4	56.1	67.8	74.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.3	7.0	9.4	11.7	14.0	18.7
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°	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6	4349.6
2.5°	4431.4	4300.5	4132.1	3989.5	3858.5	3757.9	3671.4	3629.3	3589.6	3561.5	3570.9
5°	4553.0	4328.5	4015.2	3797.7	3664.4	3596.6	3549.8	3526.4	3521.8	3503.1	3496.0
7.5°	4730.8	4410.4	3991.8	3772.0	3683.1	3648.0	3622.3	3608.3	3615.3	3596.6	3589.6
10°	4950.6	4546.0	4050.3	3856.2	3779.0	3753.3	3725.2	3706.5	3697.1	3669.1	3664.4
12.5°	5224.2	4714.4	4155.5	3963.7	3886.6	3842.1	3804.7	3772.0	3750.9	3715.9	3706.5
15°	5518.8	4901.5	4279.4	4069.0	3977.8	3912.3	3851.5	3802.4	3765.0	3718.2	3711.2
17.5°	5839.2	5097.9	4382.3	4141.5	4024.5	3938.0	3849.1	3776.7	3725.2	3664.4	3657.4
20°	6173.6	5296.7	4459.5	4176.5	4026.9	3910.0	3790.7	3694.8	3629.3	3568.5	3563.9
22.5°	6519.7	5479.1	4506.3	4167.2	3989.5	3844.5	3701.8	3594.3	3517.1	3444.6	3439.9
25°	6868.1	5654.5	4518.0	4129.8	3914.6	3746.3	3603.6	3477.3	3390.8	3309.0	3299.6
27.5°	7221.2	5801.8	4489.9	4054.9	3814.1	3631.7	3489.0	3365.1	3276.2	3194.4	3180.3
30°	7597.7	5928.1	4429.1	3956.7	3697.1	3510.1	3369.8	3276.2	3192.0	3110.2	3096.2
32.5°	8000.0	6038.0	4342.6	3837.5	3561.5	3388.5	3285.6	3201.4	3117.2	3044.7	3030.7
35°	8479.4	6110.5	4214.0	3683.1	3435.2	3299.6	3229.5	3131.2	3028.3	2948.8	2941.8
37.5°	8975.1	6166.6	4059.6	3535.8	3325.3	3248.2	3189.7	3056.4	2927.8	2831.9	2820.2
40°	9454.5	6213.4	3867.9	3397.8	3224.8	3210.7	3131.2	2965.2	2743.0	2635.5	2626.1
42.5°	9901.2	6227.4	3666.7	3250.5	3133.6	3126.6	3037.7	2780.5	2609.8	2541.9	2532.6
45°	10207.5	6215.7	3458.6	3112.5	3042.4	3005.0	2911.4	2647.2	2541.9	2481.1	2469.4
47.5°	10434.3	6154.9	3224.8	2967.5	2939.5	2888.0	2686.9	2563.0	2464.8	2404.0	2392.3
50°	10394.6	5902.3	2988.6	2827.2	2815.5	2771.1	2523.2	2457.8	2371.2	2305.7	2296.4
52.5°	10188.8	5423.0	2747.7	2672.9	2696.3	2609.8	2406.3	2331.5	2256.6	2181.8	2165.4
55°	10240.2	5076.9	2565.3	2523.2	2565.3	2368.9	2275.3	2195.8	2125.7	2053.2	2039.2
57.5°	10464.7	4735.4	2371.2	2361.9	2406.3	2184.1	2107.0	2006.4	1905.9	1847.4	1847.4
60°	8788.0	3451.6	2029.8	2053.2	2153.7	2034.5	1966.7	1863.8	1753.9	1702.4	1702.4
62.5°	5196.1	2165.4	1683.7	1658.0	1721.1	1796.0	1833.4	1749.2	1618.2	1550.4	1552.8
65°	2289.4	1576.1	1484.9	1463.9	1445.2	1496.6	1599.5	1606.5	1468.6	1389.1	1391.4
67.5°	1410.1	1426.5	1389.1	1372.7	1356.3	1347.0	1337.6	1342.3	1304.9	1232.4	1230.0
70°	1272.1	1316.6	1290.8	1276.8	1255.8	1239.4	1183.3	1092.1	1028.9	1010.2	1031.3
72.5°	1094.4	1155.2	1141.2	1134.2	1108.4	1068.7	993.9	905.0	830.2	783.4	792.7
75°	825.5	874.6	881.6	883.9	855.9	818.5	741.3	666.5	601.0	551.9	563.6
77.5°	474.7	502.8	509.8	516.8	495.8	481.7	430.3	376.5	341.4	290.0	304.0
80°	264.2	275.9	275.9	278.3	266.6	250.2	215.1	184.7	168.4	145.0	147.3
82.5°	159.0	163.7	166.0	168.4	161.4	145.0	119.3	98.2	88.9	77.2	74.8
85°	77.2	81.8	81.8	84.2	72.5	63.1	49.1	37.4	32.7	23.4	25.7
87.5°	18.7	21.0	21.0	18.7	16.4	11.7	7.0	2.3	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)