

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: P642457

Luminaire Tested: GWS-SA6C-830-U-T3-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-830-U-T3-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

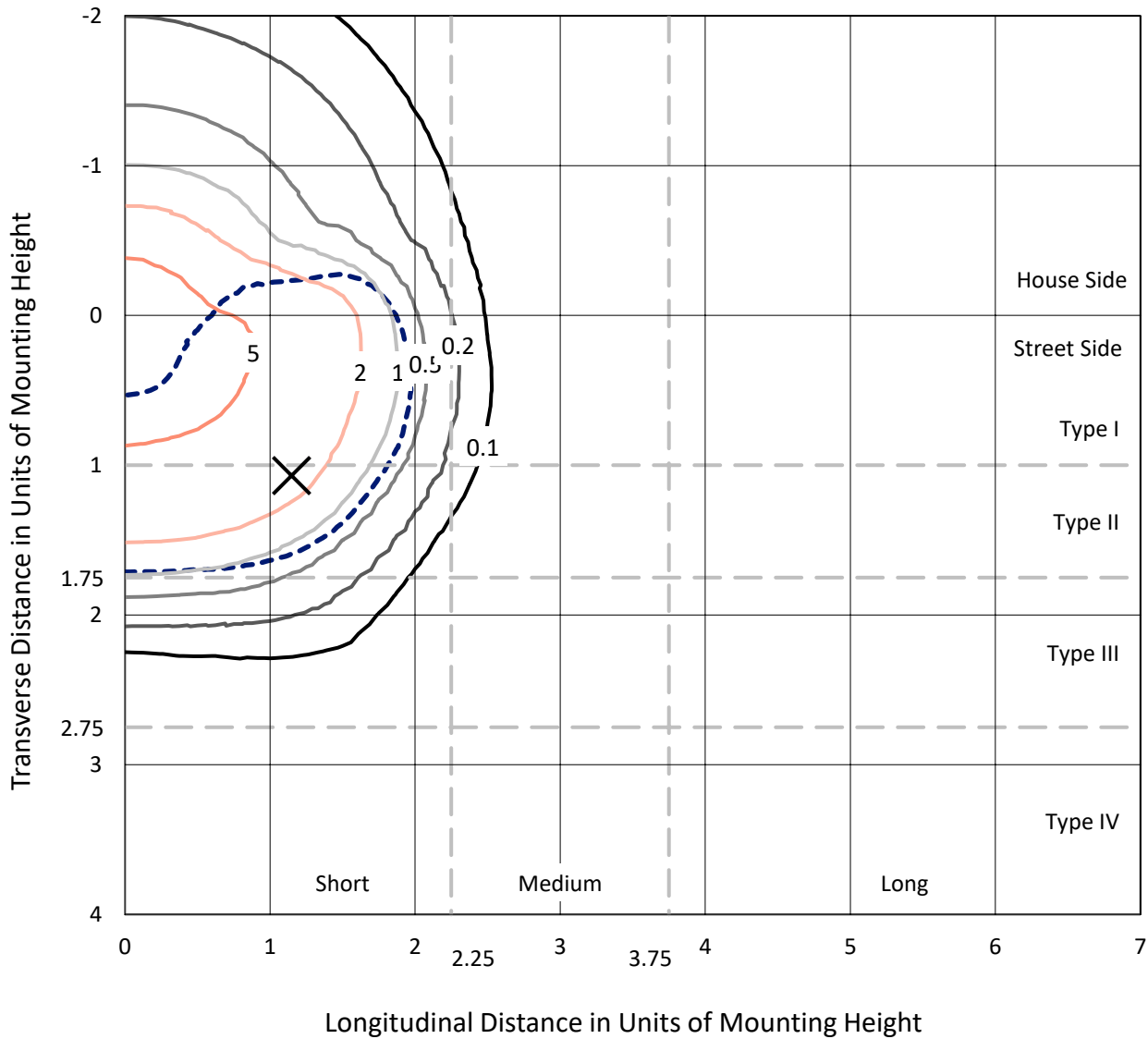
Lumens per Lamp: N/A  
Luminaire Lumens: 19252.1 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

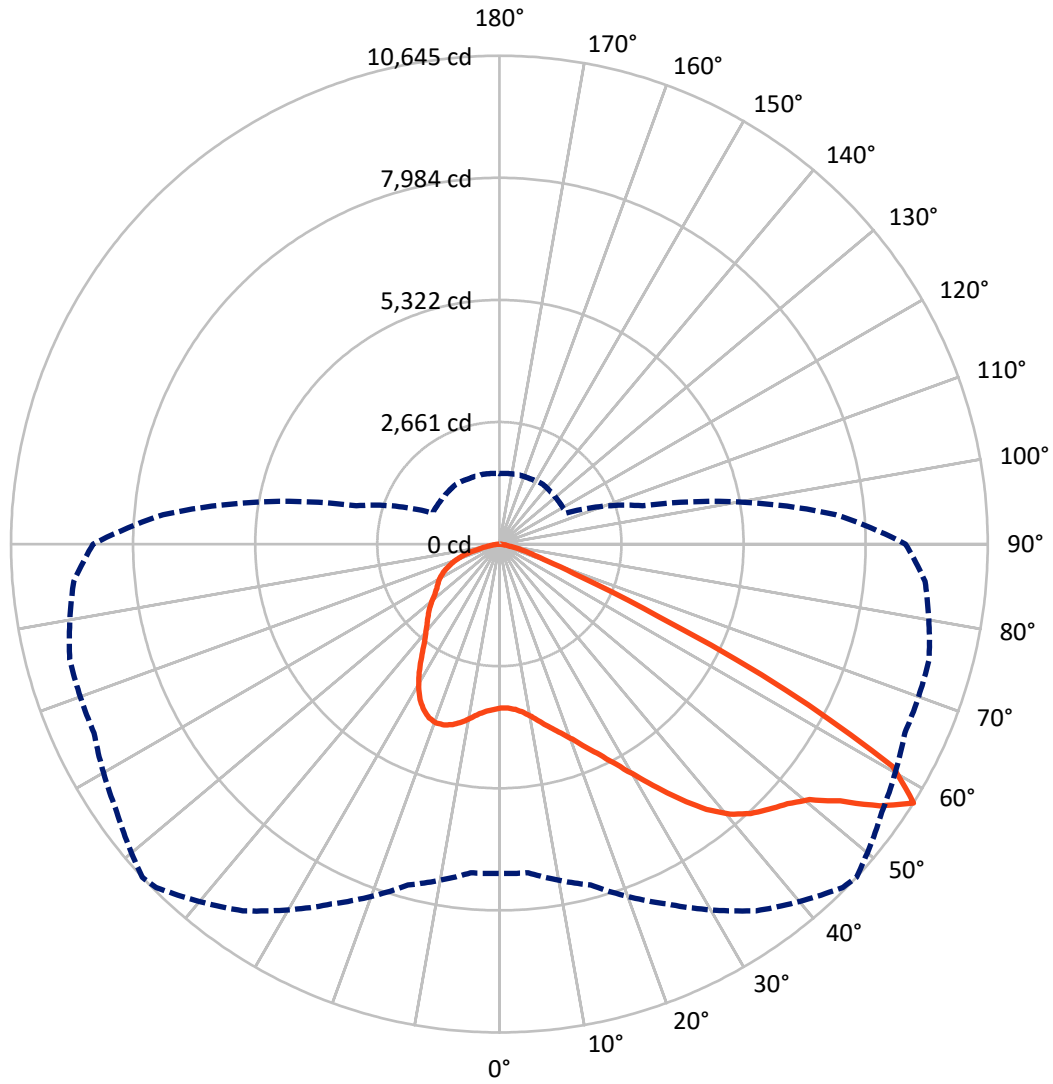
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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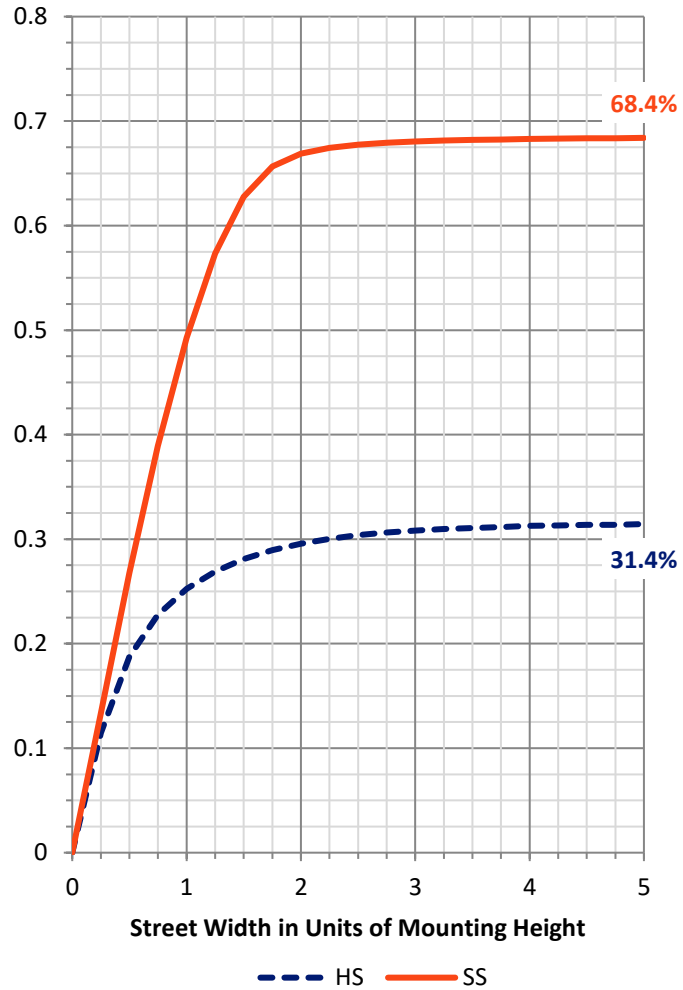
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6093.2	0.0	6093.2
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	13158.9	0.0	13158.9
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	19252.1	0.0	19252.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.1	1.8
10°-20°	1158.2	6.0
20°-30°	2085.5	10.8
30°-40°	3149.9	16.4
40°-50°	4241.8	22.0
50°-60°	5097.1	26.5
60°-70°	2482.4	12.9
70°-80°	611.6	3.2
80°-90°	73.5	0.4
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°	19252.1	100.0
0°-180°	19252.1	100.0

**Coefficient of Utilization**



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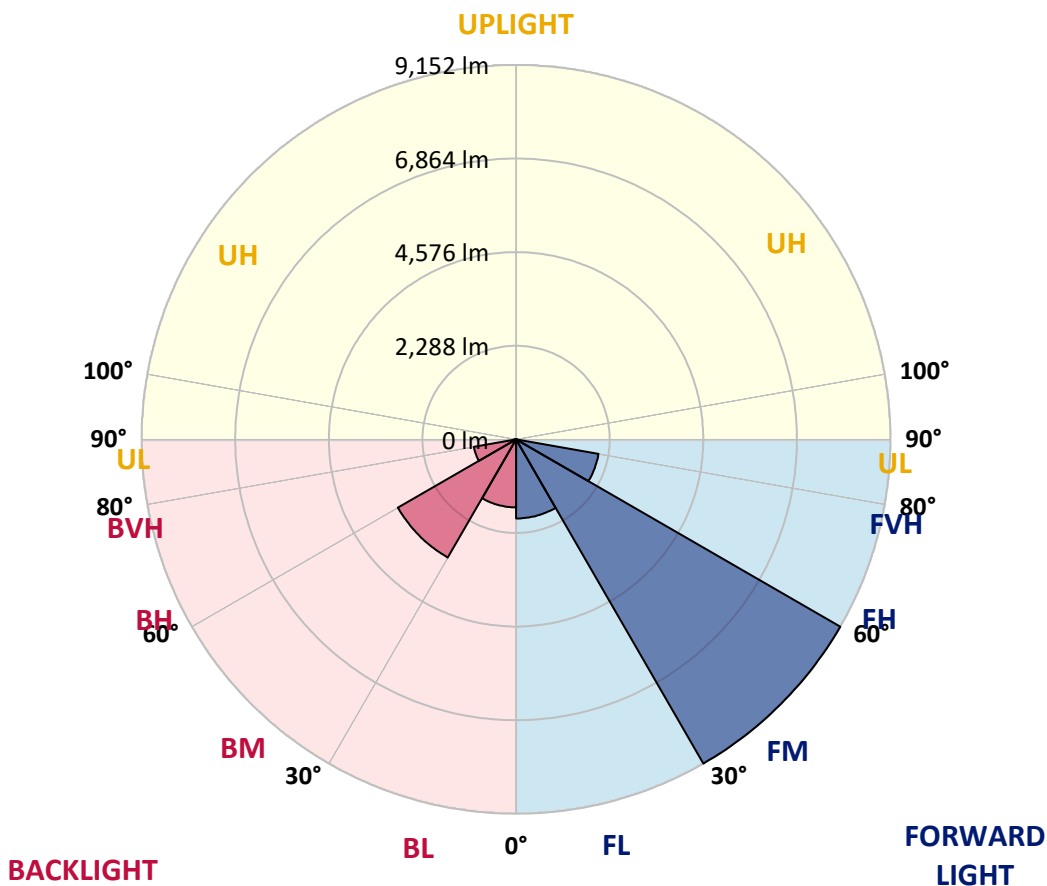
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1933.8	10.0			
FM (30°-60°)	9151.5	47.5			
FH (60°-80°)	2045.9	10.6			G2/5000
FVH (80°-90°)	27.6	0.1			G1/100
BL (0°-30°)	1662.1	8.6	B3/2500		
BM (30°-60°)	3337.2	17.3	B3/5000		
BH (60°-80°)	1048.0	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.9	0.2			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°	47°	55°	65°	75°	85°
0°	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3
2.5°	3563.9	3562.2	3562.2	3571.9	3571.9	3575.2	3580.0	3584.9	3586.5	3578.4	3560.6
5°	3602.7	3602.7	3602.7	3610.8	3610.8	3614.0	3620.5	3622.1	3620.5	3607.5	3589.7
7.5°	3664.1	3664.1	3665.7	3675.4	3683.5	3688.4	3699.7	3698.1	3693.2	3672.2	3649.6
10°	3764.4	3769.2	3774.1	3785.4	3801.6	3812.9	3821.0	3821.0	3814.5	3782.2	3753.1
12.5°	3906.7	3913.1	3918.0	3927.7	3940.6	3960.0	3977.8	3977.8	3969.7	3929.3	3885.6
15°	4073.2	4079.7	4078.1	4081.3	4105.6	4133.0	4147.6	4157.3	4160.5	4103.9	4036.0
17.5°	4264.0	4270.5	4264.0	4254.3	4257.6	4301.2	4327.1	4362.7	4383.7	4307.7	4199.3
20°	4437.0	4430.6	4430.6	4437.0	4446.7	4500.1	4538.9	4597.1	4623.0	4530.8	4362.7
22.5°	4619.8	4634.3	4627.8	4627.8	4666.7	4755.6	4802.5	4878.5	4906.0	4786.3	4559.9
25°	4855.8	4868.8	4865.5	4868.8	4914.1	5040.2	5087.1	5227.8	5255.2	5083.8	4778.2
27.5°	5114.6	5135.6	5145.3	5142.1	5214.8	5379.7	5438.0	5633.6	5683.7	5416.9	5011.1
30°	5450.9	5473.5	5481.6	5478.4	5564.1	5788.8	5855.1	6078.3	6149.4	5811.5	5307.0
32.5°	5840.6	5863.2	5887.5	5897.2	6007.1	6236.8	6332.2	6563.4	6665.3	6267.5	5664.3
35°	6227.1	6246.5	6293.4	6369.4	6519.7	6754.2	6838.3	7066.3	7164.9	6741.3	6096.1
37.5°	6653.9	6666.9	6707.3	6812.4	7029.1	7252.2	7336.3	7554.6	7565.9	7198.9	6584.4
40°	7121.3	7121.3	7113.2	7216.7	7443.0	7667.8	7740.6	7866.7	7800.4	7551.4	7059.8
42.5°	7517.4	7511.0	7517.4	7614.4	7782.6	7965.3	8028.4	8004.1	7920.1	7821.4	7489.9
45°	7874.8	7879.6	7937.8	8012.2	8099.5	8207.9	8245.1	8107.6	8031.6	8038.1	7834.4
47.5°	8117.3	8122.2	8258.0	8382.5	8435.9	8469.8	8453.7	8262.9	8224.0	8296.8	8099.5
50°	8149.7	8175.5	8410.0	8665.5	8798.1	8802.9	8757.7	8524.8	8513.5	8596.0	8241.8
52.5°	8156.1	8182.0	8474.7	8935.5	9279.9	9352.7	9301.0	9058.4	8940.4	8857.9	8416.5
55°	8131.9	8161.0	8484.4	9116.6	9776.4	10067.4	10072.3	9729.5	9352.7	9297.7	8914.5
57.5°	7179.5	7190.8	7692.1	8655.8	9757.0	10581.6	10644.7	10179.0	9748.9	9697.1	9313.9
60°	5001.4	5046.6	5591.6	6864.2	8196.6	9650.2	9854.0	9718.2	9430.3	9053.6	7991.2
62.5°	2504.7	2543.5	3090.1	4293.1	5653.0	6801.1	7019.4	7163.3	7231.2	6827.0	5441.2
65°	1078.5	1107.6	1447.2	2242.8	3200.0	3754.7	3830.7	4003.7	4427.3	3950.3	2931.6
67.5°	721.2	740.6	913.6	1368.0	1885.4	1921.0	1909.7	1946.9	2039.0	1683.3	1324.3
70°	553.0	569.2	685.6	1002.5	1355.0	1159.4	1097.9	996.1	1081.8	1102.8	1073.7
72.5°	401.0	414.0	501.3	684.0	848.9	740.6	730.9	782.6	899.1	931.4	913.6
75°	258.7	265.2	318.5	375.1	438.2	475.4	494.8	588.6	706.6	730.9	709.9
77.5°	173.0	177.9	208.6	240.9	249.0	250.6	257.1	299.1	380.0	425.3	420.4
80°	90.6	90.6	101.9	101.9	116.4	139.1	145.5	173.0	210.2	232.8	234.5
82.5°	35.6	37.2	43.7	48.5	58.2	71.1	76.0	90.6	110.0	126.1	140.7
85°	14.6	16.2	17.8	21.0	25.9	32.3	34.0	38.8	51.7	64.7	72.8
87.5°	0.0	0.0	1.6	1.6	3.2	4.9	4.9	6.5	8.1	14.6	19.4
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°	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3	3570.3
2.5°	3581.6	3560.6	3581.6	3588.1	3605.9	3612.4	3601.1	3599.4	3599.4	3583.3	3578.4
5°	3605.9	3586.5	3607.5	3617.2	3643.1	3659.3	3662.5	3675.4	3683.5	3677.1	3675.4
7.5°	3665.7	3641.5	3664.1	3678.7	3712.6	3738.5	3749.8	3778.9	3799.9	3796.7	3795.1
10°	3770.8	3738.5	3764.4	3788.6	3825.8	3856.5	3858.2	3874.3	3895.3	3888.9	3885.6
12.5°	3892.1	3861.4	3890.5	3914.8	3958.4	3971.3	3950.3	3943.9	3947.1	3939.0	3932.5
15°	4040.9	3997.2	4023.1	4050.6	4074.8	4060.3	4015.0	3997.2	3995.6	3984.3	3977.8
17.5°	4189.6	4134.7	4154.1	4168.6	4157.3	4112.0	4055.4	4024.7	4010.2	3987.5	3981.0
20°	4336.8	4267.3	4264.0	4252.7	4201.0	4118.5	4042.5	3981.0	3943.9	3913.1	3901.8
22.5°	4505.0	4407.9	4359.4	4307.7	4194.5	4060.3	3945.5	3858.2	3798.3	3759.5	3746.6
25°	4686.1	4548.6	4448.4	4344.9	4129.8	3935.8	3775.7	3656.0	3584.9	3542.8	3528.3
27.5°	4865.5	4676.4	4526.0	4349.7	4000.5	3756.3	3541.2	3379.5	3308.4	3274.4	3263.1
30°	5108.1	4846.1	4618.1	4286.7	3830.7	3507.3	3238.8	3075.5	3028.6	3004.4	2994.7
32.5°	5387.8	5061.2	4741.0	4154.1	3614.0	3216.2	2933.2	2820.0	2787.7	2740.8	2739.2
35°	5756.5	5368.4	4857.5	3958.4	3340.7	2904.1	2698.8	2617.9	2559.7	2485.3	2478.9
37.5°	6186.6	5751.7	4920.5	3709.4	3022.2	2647.0	2524.1	2433.6	2339.8	2241.2	2228.2
40°	6631.3	6199.6	4925.4	3415.1	2710.1	2477.2	2373.8	2255.7	2139.3	2029.3	2014.8
42.5°	7098.6	6616.8	4839.7	3075.5	2454.6	2330.1	2225.0	2076.2	1945.2	1870.9	1862.8
45°	7515.8	6953.1	4645.6	2718.2	2265.4	2207.2	2073.0	1912.9	1843.4	1790.0	1778.7
47.5°	7844.1	7176.2	4383.7	2398.0	2111.8	2081.1	1906.4	1824.0	1770.6	1722.1	1710.8
50°	8005.8	7226.4	4042.5	2137.7	1969.5	1932.3	1812.7	1749.6	1714.0	1675.2	1665.5
52.5°	8206.3	7283.0	3748.2	1919.4	1830.4	1780.3	1735.0	1684.9	1659.0	1634.8	1626.7
55°	8667.1	7496.4	3593.0	1744.7	1697.8	1675.2	1668.7	1626.7	1618.6	1602.4	1587.9
57.5°	8854.7	7359.0	3225.9	1602.4	1592.7	1596.0	1612.1	1573.3	1565.3	1545.8	1536.1
60°	7121.3	5562.5	2184.6	1479.6	1505.4	1526.4	1542.6	1503.8	1492.5	1489.3	1476.3
62.5°	4563.2	3421.6	1524.8	1364.7	1403.6	1429.4	1439.1	1401.9	1393.9	1419.7	1421.3
65°	2375.4	1864.4	1237.0	1241.9	1274.2	1313.0	1332.4	1319.5	1316.2	1343.7	1345.3
67.5°	1212.7	1140.0	1078.5	1096.3	1122.2	1172.3	1217.6	1274.2	1293.6	1296.8	1298.4
70°	1033.3	1000.9	970.2	981.5	1009.0	1036.5	1080.2	1107.6	1075.3	1067.2	1064.0
72.5°	879.6	855.4	840.8	853.8	868.3	863.5	850.5	863.5	868.3	869.9	871.6
75°	684.0	666.2	654.9	656.5	656.5	638.7	614.5	599.9	583.7	570.8	570.8
77.5°	418.8	422.0	433.4	431.7	430.1	423.7	399.4	386.5	347.7	336.3	336.3
80°	239.3	244.2	255.5	258.7	258.7	250.6	226.4	211.8	194.0	186.0	184.3
82.5°	145.5	152.0	158.5	161.7	163.3	153.6	132.6	121.3	111.6	103.5	103.5
85°	76.0	79.2	85.7	87.3	82.5	72.8	61.4	56.6	46.9	45.3	45.3
87.5°	21.0	22.6	25.9	21.0	19.4	14.6	8.1	6.5	3.2	1.6	1.6
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)