

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: P638709

Luminaire Tested: GWS-SA4F-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4F-735-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

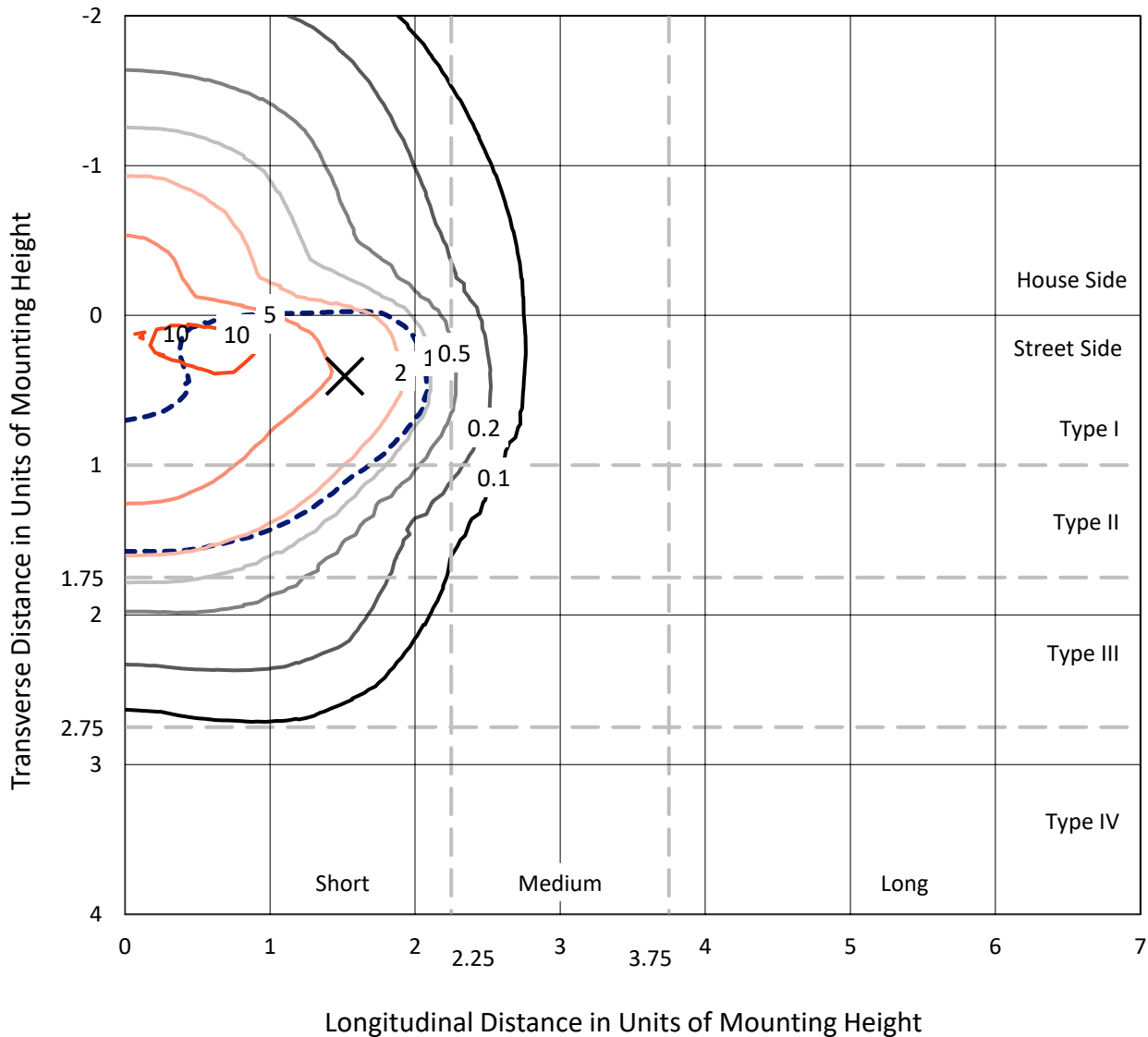
Lumens per Lamp: N/A  
Luminaire Lumens: 27978.2 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 225.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

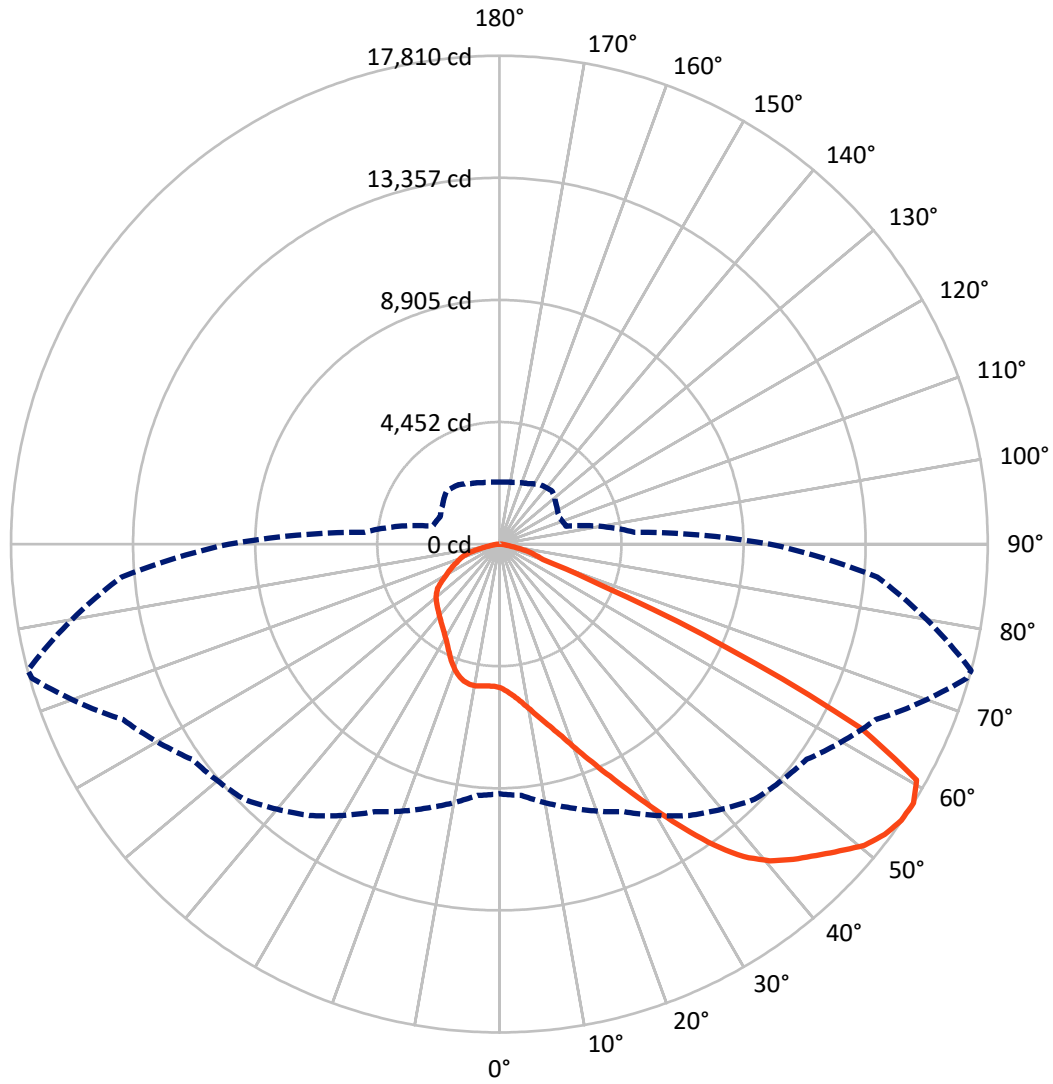
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P638709  
CATALOG NUMBER: GWS-SA4F-735-U-T2-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P638709

CATALOG NUMBER: GWS-SA4F-735-U-T2-W-GRSWH

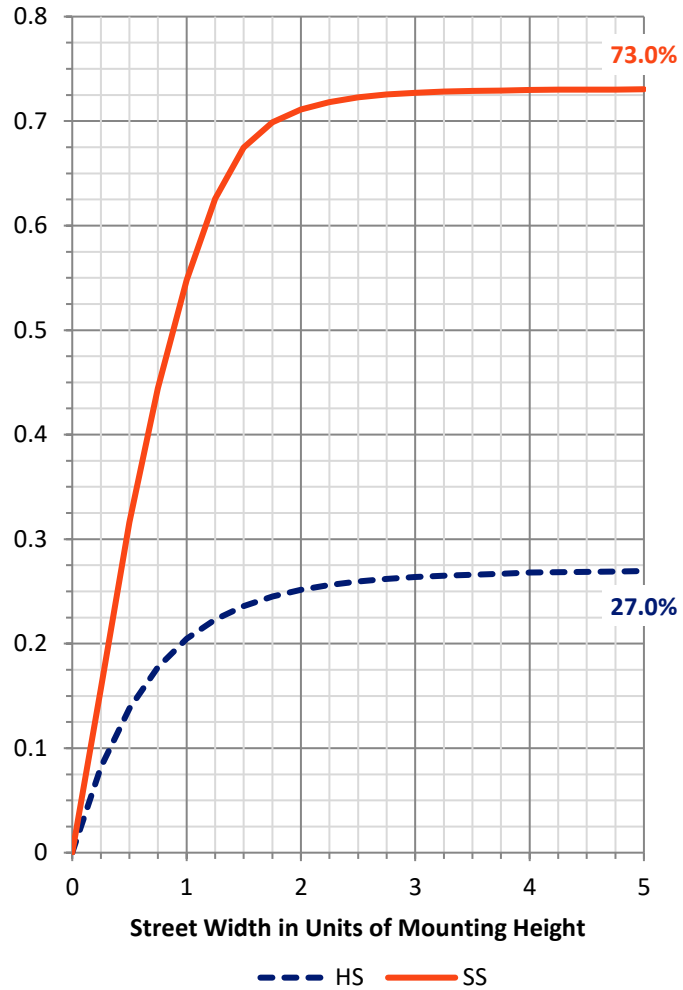
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7568.7	0.0	7568.7
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	20409.5	0.0	20409.5
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	27978.2	0.0	27978.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	524.3	1.9
10°-20°	1669.4	6.0
20°-30°	2960.6	10.6
30°-40°	4532.1	16.2
40°-50°	6310.6	22.6
50°-60°	7230.7	25.8
60°-70°	3715.3	13.3
70°-80°	935.4	3.3
80°-90°	100.0	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°	27978.2	100.0
0°-180°	27978.2	100.0

**Coefficient of Utilization**



REPORT NUMBER: P638709

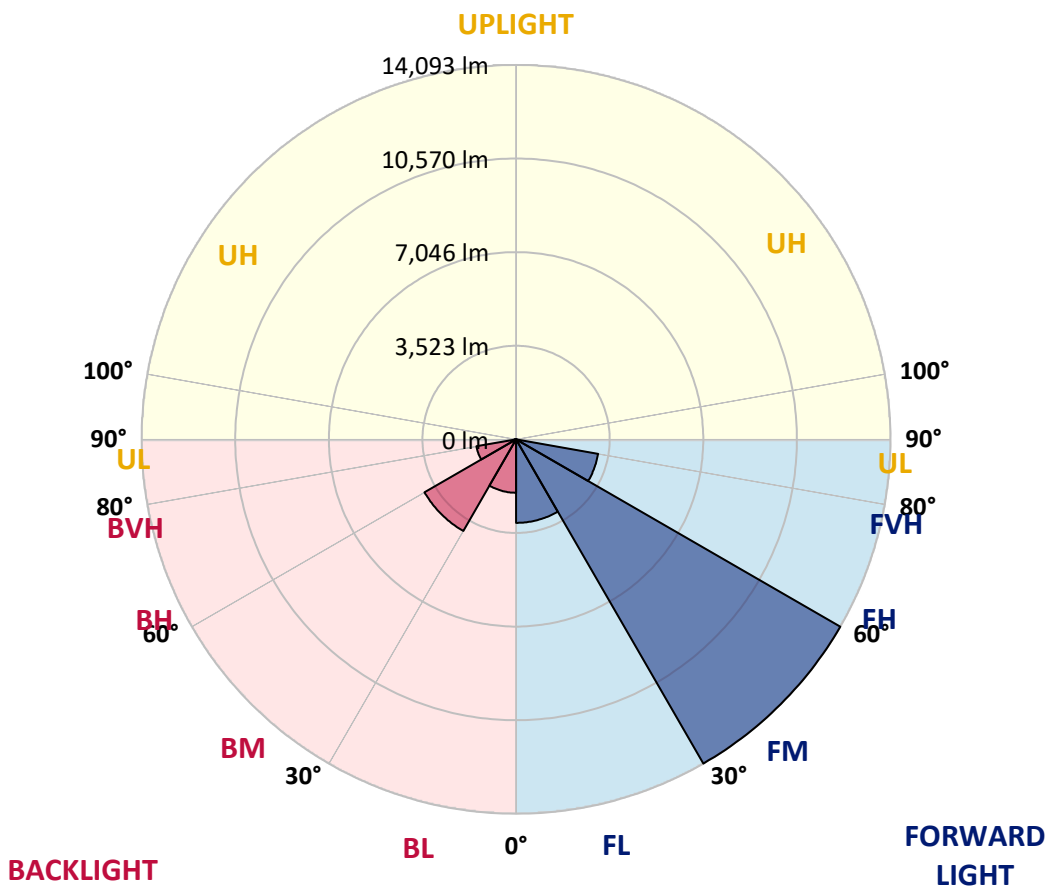
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3143.5	11.2			
FM (30°-60°)	14092.9	50.4			
FH (60°-80°)	3136.1	11.2			G2/5000
FVH (80°-90°)	37.0	0.1			G1/100
BL (0°-30°)	2010.7	7.2	B3/2500		
BM (30°-60°)	3980.4	14.2	B3/5000		
BH (60°-80°)	1514.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	63.0	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





REPORT NUMBER: P638709

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6
2.5°	5629.4	5643.8	5629.4	5653.4	5605.3	5583.7	5530.7	5451.3	5388.8	5379.2	5309.4
5°	6067.2	6098.5	6079.2	6069.6	6004.7	5956.5	5877.2	5718.4	5588.5	5569.2	5432.1
7.5°	6348.7	6370.3	6370.3	6377.5	6353.5	6298.2	6214.0	6026.3	5843.5	5814.6	5607.7
10°	6442.5	6459.3	6490.6	6550.8	6598.9	6615.7	6560.4	6380.0	6156.2	6127.4	5838.7
12.5°	6464.2	6483.4	6531.5	6642.2	6774.5	6894.8	6904.4	6772.1	6521.9	6490.6	6105.7
15°	6505.1	6524.3	6589.3	6726.4	6921.2	7152.2	7294.1	7202.7	6926.1	6892.4	6408.8
17.5°	6500.2	6521.9	6618.1	6801.0	7063.2	7397.6	7671.8	7710.3	7424.0	7366.3	6752.8
20°	6488.2	6507.5	6610.9	6834.6	7159.4	7618.9	8114.5	8314.1	8006.2	7953.3	7154.6
22.5°	6584.4	6606.1	6685.5	6870.7	7209.9	7789.7	8523.4	9004.6	8696.7	8622.1	7616.5
25°	6801.0	6832.2	6880.3	7007.8	7301.3	7941.3	8942.0	9786.4	9471.3	9382.3	8119.3
27.5°	7135.3	7173.8	7241.2	7301.3	7505.8	8133.7	9358.2	10662.1	10347.0	10253.2	8650.9
30°	7544.3	7594.8	7681.4	7722.3	7861.9	8417.6	9810.5	11564.3	11381.4	11251.5	9250.0
32.5°	8109.7	8179.4	8261.2	8273.3	8357.5	8848.2	10258.0	12459.2	12456.8	12365.4	9930.8
35°	8845.8	8920.4	8937.2	8954.1	8995.0	9440.0	10799.3	13274.7	13589.9	13484.0	10671.7
37.5°	9649.3	9757.6	9784.0	9709.5	9767.2	10152.1	11407.9	13929.1	14576.2	14463.2	11388.7
40°	10508.2	10551.5	10623.6	10505.8	10577.9	10967.7	12004.5	14347.7	15312.4	15192.1	11954.0
42.5°	11124.0	11203.4	11311.7	11268.4	11309.3	11665.3	12423.1	14549.8	15836.8	15716.5	12360.6
45°	11792.8	11816.9	11886.6	11877.0	11901.1	12233.1	12723.8	14638.8	16305.9	16197.7	12707.0
47.5°	12375.0	12411.1	12456.8	12403.9	12350.9	12567.5	12969.2	14715.8	16847.2	16717.3	13070.2
50°	12935.5	12966.8	13022.1	12868.2	12670.9	12726.2	13089.5	14821.6	17354.8	17263.4	13356.5
52.5°	13039.0	13072.7	13332.5	13363.7	13111.1	12916.3	13301.2	15055.0	17653.1	17595.4	13460.0
55°	11737.5	11797.6	12314.9	12909.1	13532.1	13469.6	13640.4	15177.6	17771.0	17785.4	13645.2
57.5°	9110.4	9197.0	9952.4	10768.0	12079.1	13164.1	13683.7	15146.4	17730.1	17809.5	13835.3
60°	5975.8	6026.3	6921.2	7835.4	9194.6	10695.8	12247.5	14583.4	17366.8	17479.9	13787.1
62.5°	3608.6	3666.3	4385.6	5078.5	5879.6	6882.7	8306.9	11720.6	14557.0	14809.6	11042.2
65°	2518.8	2595.8	3226.1	3796.2	4072.9	3866.0	4207.6	6545.9	9069.5	9175.4	6748.0
67.5°	1825.9	1878.9	2396.1	3074.5	3380.0	2730.5	2080.9	2898.9	3950.2	3988.7	2783.4
70°	1195.6	1255.8	1724.9	2340.8	2759.4	2213.3	1556.5	1568.5	1662.3	1681.6	1616.6
72.5°	656.8	692.8	1065.7	1554.1	1631.1	1323.1	1214.9	1303.9	1368.9	1368.9	1385.7
75°	339.2	370.5	435.4	512.4	618.3	724.1	875.7	1008.0	1077.8	1082.6	1075.4
77.5°	173.2	185.2	233.4	252.6	276.7	322.4	418.6	536.5	599.0	623.1	618.3
80°	81.8	86.6	98.6	115.5	141.9	180.4	226.1	269.4	307.9	312.7	339.2
82.5°	43.3	48.1	52.9	62.5	77.0	96.2	132.3	158.8	182.8	187.6	209.3
85°	16.8	19.2	21.7	24.1	33.7	40.9	55.3	74.6	91.4	91.4	108.3
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	9.6	12.0	16.8	16.8	28.9
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°	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6	5239.6
2.5°	5292.6	5222.8	5191.5	5141.0	5100.1	5054.4	5018.3	4991.9	4975.0	4965.4	4955.8
5°	5379.2	5273.3	5189.1	5088.1	5018.3	4951.0	4895.6	4857.1	4837.9	4823.5	4813.8
7.5°	5513.9	5372.0	5213.2	5056.8	4934.1	4825.9	4756.1	4715.2	4688.7	4679.1	4671.9
10°	5699.1	5501.9	5239.6	4991.9	4809.0	4691.1	4643.0	4623.8	4626.2	4621.4	4619.0
12.5°	5908.4	5639.0	5232.4	4876.4	4674.3	4604.5	4606.9	4638.2	4674.3	4683.9	4686.3
15°	6134.6	5773.7	5162.7	4727.2	4568.5	4575.7	4638.2	4712.8	4780.2	4806.6	4811.4
17.5°	6380.0	5886.8	5035.2	4563.6	4481.8	4558.8	4674.3	4797.0	4895.6	4938.9	4951.0
20°	6654.2	5983.0	4854.7	4402.5	4400.1	4527.6	4696.0	4857.1	4982.2	5040.0	5049.6
22.5°	6945.3	6043.2	4633.4	4253.3	4315.9	4486.7	4679.1	4847.5	4979.8	5037.6	5049.6
25°	7238.8	6062.4	4390.4	4116.2	4229.2	4421.7	4597.3	4732.0	4857.1	4907.7	4917.3
27.5°	7513.0	6007.1	4159.5	3998.3	4149.9	4325.5	4443.4	4515.5	4602.1	4640.6	4647.8
30°	7792.1	5896.4	3964.6	3904.5	4060.8	4193.2	4246.1	4250.9	4284.6	4284.6	4289.4
32.5°	8073.6	5732.8	3793.8	3813.1	3950.2	4036.8	4044.0	3988.7	3947.8	3880.4	3878.0
35°	8398.3	5566.8	3654.3	3709.6	3820.3	3873.2	3851.5	3745.7	3647.1	3536.4	3531.6
37.5°	8699.1	5396.0	3536.4	3603.8	3673.5	3712.0	3661.5	3534.0	3452.2	3339.1	3322.3
40°	8946.9	5242.1	3423.3	3493.1	3526.8	3560.5	3478.7	3375.2	3387.2	3324.7	3322.3
42.5°	9091.2	5092.9	3317.5	3370.4	3392.1	3416.1	3343.9	3267.0	3331.9	3283.8	3286.2
45°	9197.0	4963.0	3221.3	3240.5	3293.4	3329.5	3262.1	3175.5	3190.0	3004.7	2961.4
47.5°	9317.3	4890.8	3129.8	3110.6	3204.4	3267.0	3163.5	3038.4	2951.8	2769.0	2752.1
50°	9444.8	4864.4	3033.6	2980.7	3093.7	3153.9	3033.6	2877.2	2764.2	2665.5	2655.9
52.5°	9488.1	4861.9	2913.3	2824.3	2937.4	3021.6	2920.5	2761.8	2627.0	2530.8	2526.0
55°	9658.9	4931.7	2759.4	2610.2	2716.1	2889.3	2814.7	2586.1	2477.9	2434.6	2429.8
57.5°	9858.6	4943.7	2516.4	2376.8	2523.6	2728.1	2634.3	2437.0	2319.1	2266.2	2261.4
60°	9776.8	4647.8	2256.6	2198.8	2360.0	2576.5	2489.9	2319.1	2182.0	2131.5	2126.7
62.5°	7450.5	3281.4	2066.5	2044.9	2184.4	2357.6	2340.8	2162.7	2032.8	1996.7	1991.9
65°	4481.8	2304.7	1883.7	1881.3	1979.9	2145.9	2167.5	2023.2	1886.1	1835.6	1835.6
67.5°	2215.7	1763.4	1676.8	1664.8	1727.3	1845.2	1936.6	1818.7	1703.2	1655.1	1647.9
70°	1566.1	1554.1	1525.2	1491.5	1503.6	1551.7	1590.2	1491.5	1368.9	1320.7	1311.1
72.5°	1354.4	1356.8	1337.6	1311.1	1301.5	1267.8	1234.1	1162.0	1087.4	1036.9	1041.7
75°	1051.3	1056.1	1068.1	1058.5	1032.1	996.0	959.9	868.5	808.3	760.2	750.6
77.5°	613.5	637.5	676.0	666.4	671.2	620.7	606.2	517.2	461.9	428.2	421.0
80°	346.4	360.9	377.7	389.7	375.3	353.6	322.4	274.3	257.4	233.4	228.5
82.5°	209.3	223.7	230.9	240.6	235.8	206.9	182.8	151.6	137.1	125.1	122.7
85°	105.9	115.5	122.7	127.5	113.1	93.8	84.2	67.4	57.7	50.5	50.5
87.5°	26.5	28.9	33.7	28.9	26.5	12.0	9.6	2.4	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)