

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: P641251

Luminaire Tested: GWS-SA5F-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

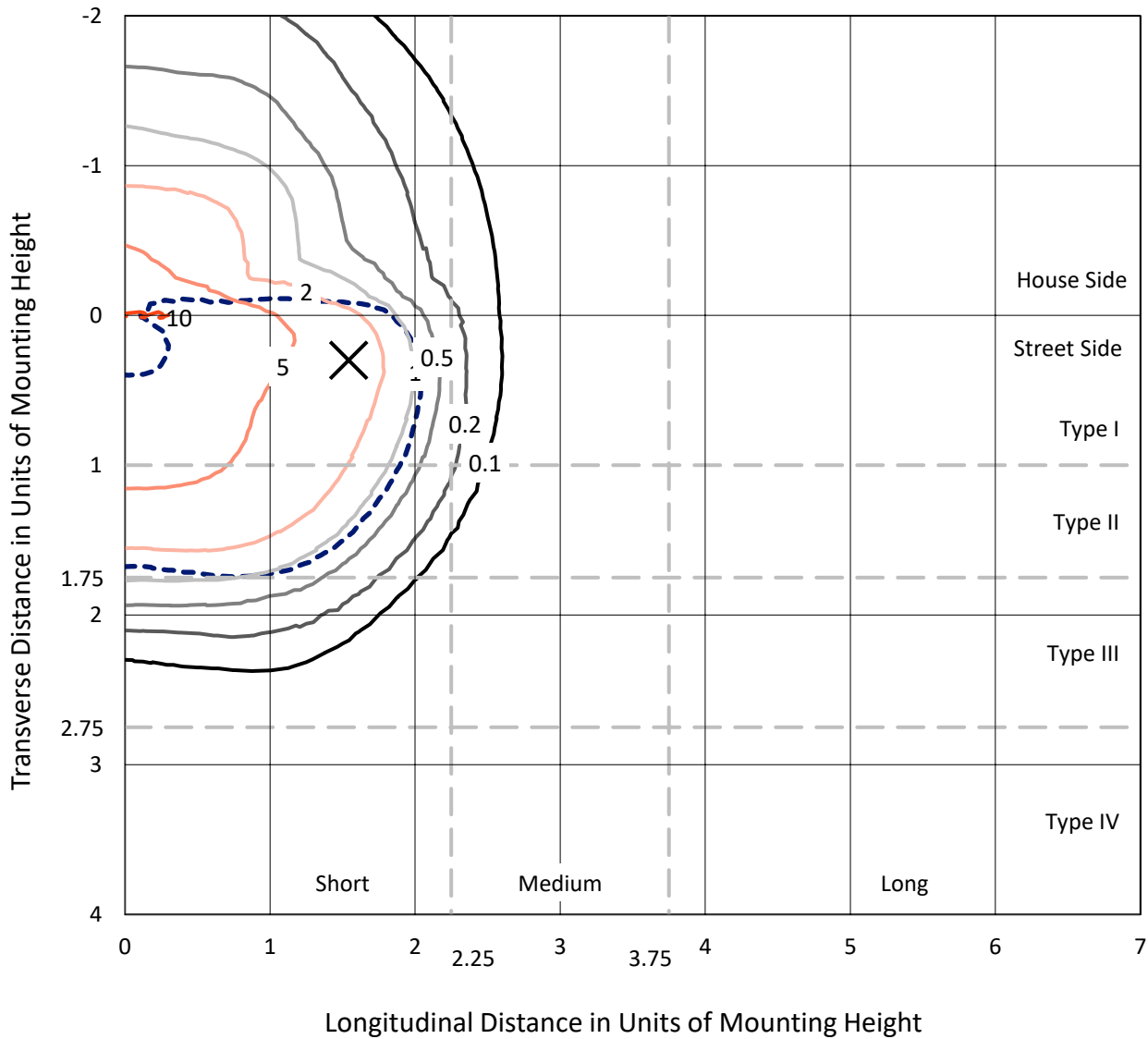
Lumens per Lamp: N/A  
Luminaire Lumens: 36593.4 lumens  
Efficiency: N/A  
Efficacy: 117.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

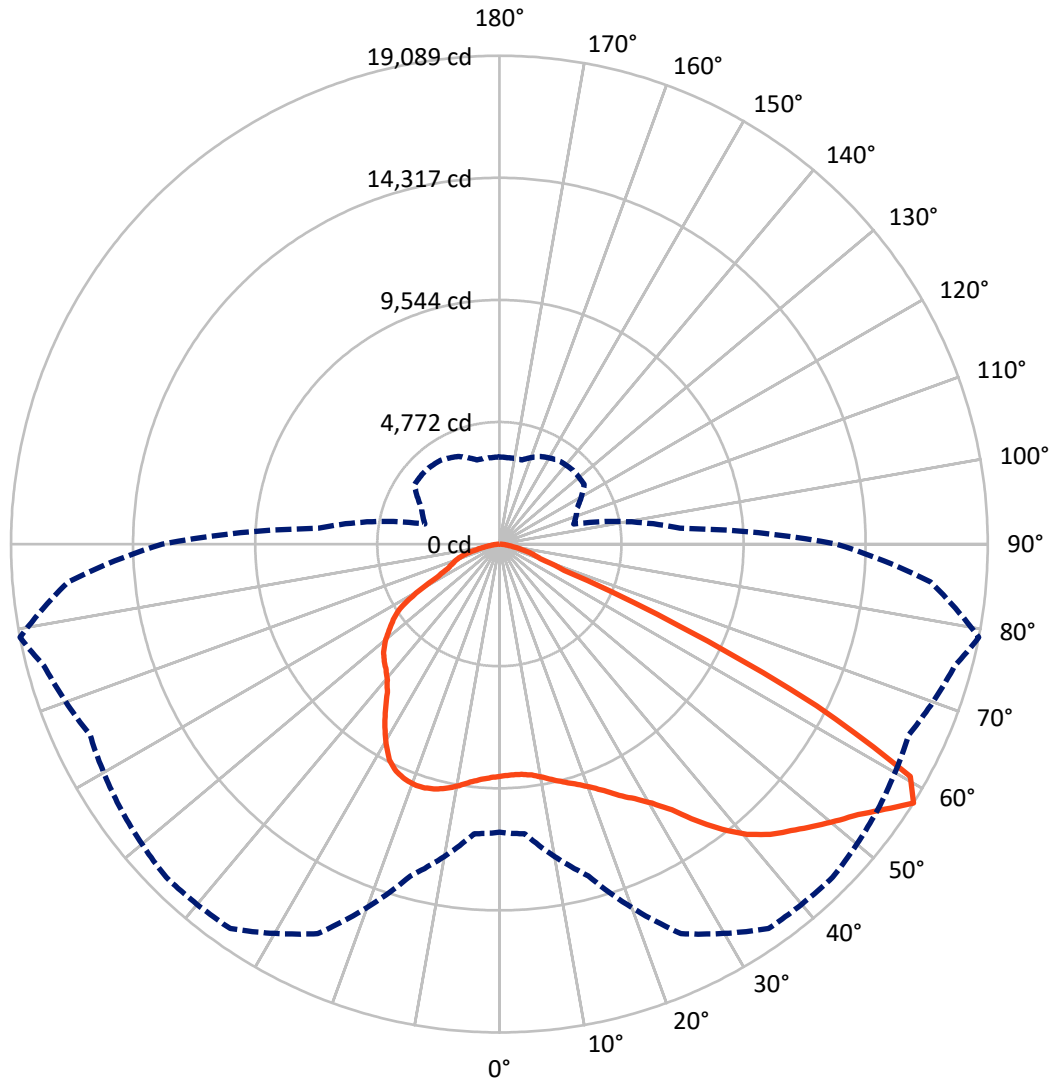
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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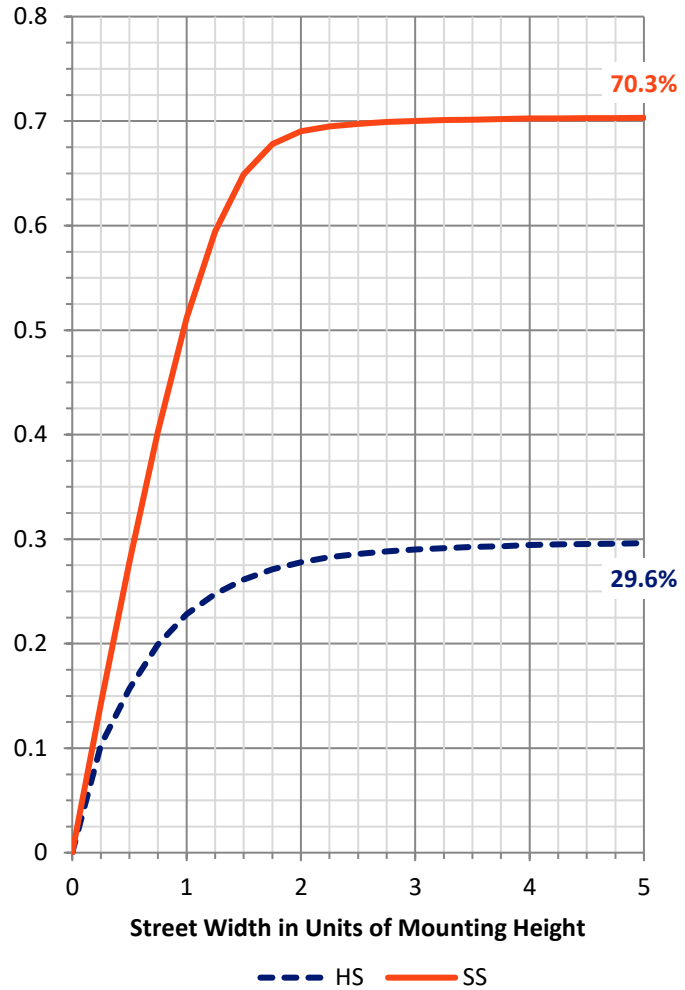
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10877.5	0.0	10877.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	25715.9	0.0	25715.9
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	36593.4	0.0	36593.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	839.8	2.3
10°-20°	2333.9	6.4
20°-30°	3956.1	10.8
30°-40°	6055.3	16.5
40°-50°	8074.2	22.1
50°-60°	9325.0	25.5
60°-70°	4845.6	13.2
70°-80°	1030.0	2.8
80°-90°	133.4	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°	36593.4	100.0
0°-180°	36593.4	100.0

**Coefficient of Utilization**



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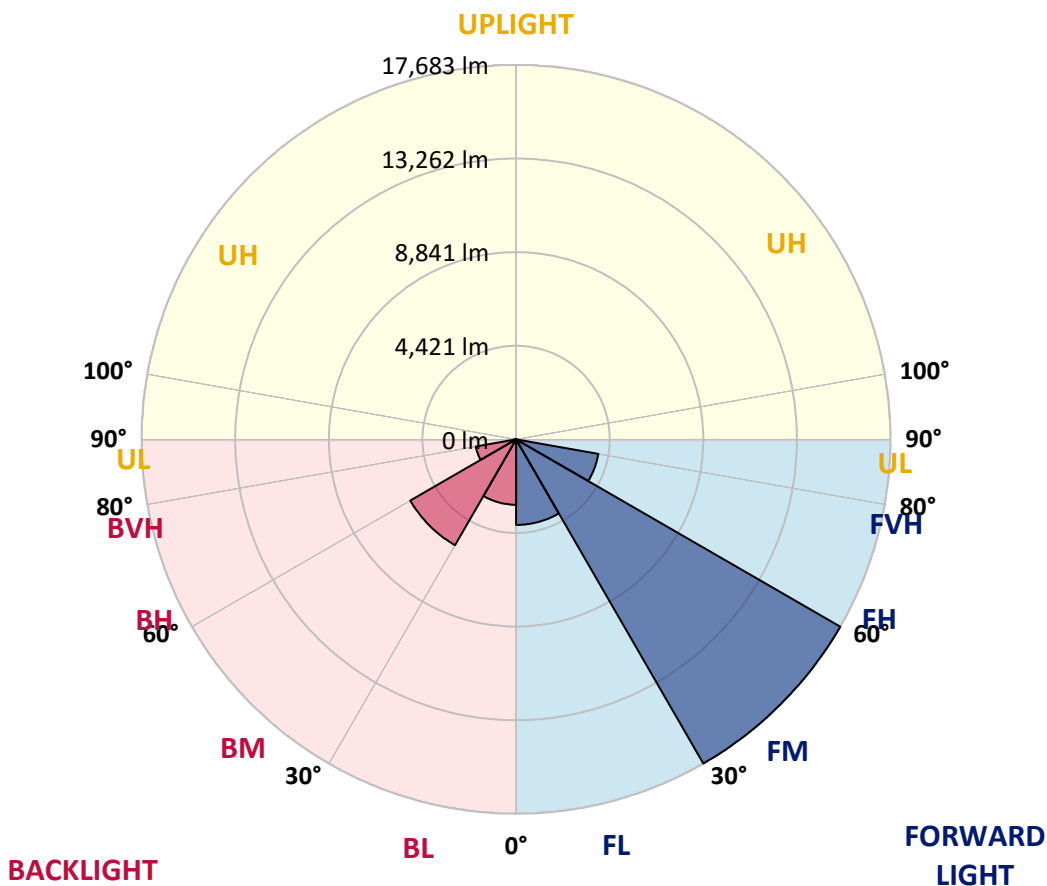
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4040.7	11.0			
FM (30°-60°)	17683.0	48.3			
FH (60°-80°)	3945.7	10.8			G2/5000
FVH (80°-90°)	46.5	0.1			G1/100
BL (0°-30°)	3089.1	8.4	B4/5000		
BM (30°-60°)	5771.5	15.8	B4/8500		
BH (60°-80°)	1930.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	86.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7
2.5°	8655.8	8637.8	8643.8	8667.8	8757.5	8823.3	8892.2	8955.0	9014.8	9032.8	9047.7
5°	8347.6	8314.7	8323.7	8362.6	8467.3	8578.0	8700.7	8850.3	8993.9	9041.8	9104.6
7.5°	8129.2	8123.2	8138.2	8198.0	8308.7	8413.4	8572.0	8784.5	9032.8	9113.6	9224.3
10°	7839.0	7827.0	7886.9	8009.5	8192.0	8359.6	8548.1	8799.4	9146.5	9266.2	9436.7
12.5°	7608.6	7602.6	7665.5	7836.0	8069.4	8335.7	8596.0	8877.2	9299.1	9463.6	9673.1
15°	7743.2	7716.3	7719.3	7839.0	8048.4	8362.6	8715.6	9017.8	9451.7	9661.1	9930.4
17.5°	8135.2	8087.3	8051.4	8072.4	8192.0	8518.2	8898.1	9206.3	9628.2	9873.5	10202.7
20°	8676.7	8649.8	8551.1	8485.3	8512.2	8799.4	9185.4	9472.6	9858.6	10133.8	10486.9
22.5°	9403.8	9338.0	9203.3	9098.6	9017.8	9242.2	9598.3	9846.6	10178.7	10465.9	10834.0
25°	10304.4	10208.6	9996.2	9831.6	9658.1	9888.5	10205.6	10394.1	10618.5	10884.8	11234.9
27.5°	11222.9	11142.1	10905.8	10684.4	10468.9	10612.6	10989.5	11097.3	11073.3	11267.8	11567.0
30°	12201.3	12099.6	11875.2	11635.8	11357.6	11450.3	11788.4	11842.3	11587.9	11749.5	11953.0
32.5°	13233.5	13134.8	12940.3	12662.1	12347.9	12383.8	12476.6	12527.4	12285.1	12377.8	12533.4
35°	14283.7	14191.0	13993.5	13718.2	13487.8	13269.4	13036.1	13239.5	13098.9	13278.4	13266.4
37.5°	15244.1	15151.4	15028.7	14816.3	14421.3	13990.5	13451.9	13703.3	13921.7	14149.1	14110.2
40°	15893.4	15830.6	15860.5	15827.6	15318.9	14466.2	13655.4	13930.7	14526.1	14915.0	14894.1
42.5°	16452.9	16390.1	16563.6	16689.3	16090.9	14906.0	13754.1	14017.4	14912.0	15519.4	15489.5
45°	16701.2	16683.3	16970.5	17368.4	16797.0	15372.8	14008.4	14196.9	15205.2	15983.2	15869.5
47.5°	16405.0	16467.9	17033.3	17706.5	17383.4	15926.3	14529.1	14576.9	15588.2	16485.8	16165.7
50°	15815.6	15953.2	16716.2	17715.5	17811.3	16551.6	15250.1	15130.4	16102.8	17021.4	16321.2
52.5°	14956.9	15100.5	16345.2	17646.7	18056.6	17275.7	16210.5	16040.0	16752.1	17556.9	16348.2
55°	12985.2	13179.7	15495.5	17491.1	18296.0	17933.9	17293.6	16946.6	17589.8	18293.0	16614.5
57.5°	11264.8	11366.5	13425.0	16800.0	18343.8	18418.6	18065.6	17652.7	18421.6	19088.8	16913.7
60°	8266.8	8290.8	10142.8	13900.7	16874.8	18137.4	18002.7	17389.4	18026.7	18451.5	15543.3
62.5°	4670.5	4673.5	6151.5	9278.1	12605.2	14783.4	14867.1	14325.6	13790.0	13915.7	10819.0
65°	1753.3	1917.9	2809.5	4559.8	7267.5	8727.6	9074.7	9200.3	8308.7	7755.2	5801.4
67.5°	1172.9	1211.8	1639.6	2345.7	3234.3	3734.0	4176.8	4188.8	3063.8	2731.7	2285.9
70°	894.6	933.5	1289.5	1678.5	1639.6	1513.9	1636.6	1591.7	1645.6	1690.5	1738.3
72.5°	667.2	706.1	999.3	1184.8	984.4	969.4	1098.1	1220.7	1334.4	1382.3	1457.1
75°	442.8	472.7	673.2	634.3	544.5	643.3	801.9	924.5	990.3	1047.2	1104.0
77.5°	281.2	302.2	359.0	290.2	302.2	377.0	466.7	577.5	640.3	697.1	727.1
80°	128.7	125.7	122.7	137.6	170.5	221.4	281.2	347.1	394.9	418.9	436.8
82.5°	50.9	56.8	62.8	74.8	92.8	119.7	158.6	203.5	242.4	248.3	263.3
85°	20.9	23.9	26.9	32.9	41.9	53.9	65.8	92.8	116.7	125.7	134.6
87.5°	0.0	0.0	0.0	0.0	3.0	6.0	9.0	15.0	26.9	29.9	32.9
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°	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7	9068.7
2.5°	9128.5	9089.6	9155.5	9200.3	9242.2	9197.3	9182.4	9143.5	9137.5	9137.5	9158.4
5°	9212.3	9185.4	9254.2	9281.1	9278.1	9179.4	9119.6	9041.8	9002.9	9002.9	9008.9
7.5°	9361.9	9346.9	9385.8	9344.0	9248.2	9047.7	8850.3	8685.7	8575.0	8518.2	8536.1
10°	9610.2	9592.3	9559.4	9403.8	9128.5	8712.6	8308.7	8009.5	7830.0	7728.3	7734.3
12.5°	9852.6	9822.7	9706.0	9361.9	8796.4	8135.2	7605.6	7270.5	7073.0	6953.4	6926.4
15°	10118.9	10041.1	9789.8	9146.5	8254.9	7429.1	6875.6	6513.5	6301.1	6229.3	6226.3
17.5°	10373.2	10235.6	9780.8	8763.5	7605.6	6690.1	6133.6	5909.2	5873.3	5906.2	5915.1
20°	10630.5	10409.1	9682.0	8233.9	6833.7	5954.0	5666.8	5759.6	5894.2	5984.0	6004.9
22.5°	10896.8	10552.7	9457.6	7551.8	6019.9	5457.4	5577.1	5780.5	5948.1	6067.7	6079.7
25°	11196.0	10687.4	9122.5	6717.0	5367.6	5319.7	5556.1	5771.5	5951.0	6088.7	6112.6
27.5°	11366.5	10690.3	8652.8	5858.3	5068.4	5265.9	5505.2	5708.7	5888.2	6037.8	6064.7
30°	11534.1	10609.6	7907.8	5161.2	4981.6	5203.1	5418.5	5607.0	5777.5	5924.1	5957.0
32.5°	11770.4	10534.8	7049.1	4760.2	4930.8	5143.2	5319.7	5487.3	5618.9	5684.8	5702.7
35°	12063.7	10439.0	6136.6	4586.7	4897.9	5095.3	5250.9	5340.7	5170.1	5134.2	5173.1
37.5°	12473.6	10349.3	5227.0	4511.9	4876.9	5077.4	5215.0	4984.6	4775.2	4691.4	4721.3
40°	12916.4	10298.4	4610.6	4452.1	4885.9	5095.3	5065.4	4724.3	4422.1	4245.6	4239.6
42.5°	13293.4	10220.6	4215.7	4413.2	4909.8	5164.2	4862.0	4494.0	4045.2	3940.4	3943.4
45°	13547.7	10023.1	4006.3	4371.3	4930.8	5179.1	4766.2	4176.8	3856.7	3790.8	3787.8
47.5°	13652.4	9664.1	3871.6	4305.5	4927.8	5056.4	4571.7	4045.2	3725.0	3707.1	3719.0
50°	13583.6	9074.7	3734.0	4176.8	4856.0	4927.8	4347.3	3928.5	3635.3	3734.0	3805.8
52.5°	13329.3	8311.7	3569.4	4000.3	4727.3	4781.2	4233.7	3856.7	3569.4	3701.1	3757.9
55°	13263.4	7692.4	3360.0	3769.9	4535.8	4520.9	4114.0	3820.8	3524.6	3473.7	3482.7
57.5°	13176.7	7088.0	3012.9	3357.0	4051.1	4075.1	4000.3	3778.9	3407.9	3392.9	3407.9
60°	11447.3	5433.4	2686.8	2896.2	3327.1	3455.7	3871.6	3701.1	3219.4	3156.5	3153.5
62.5°	7477.0	3291.2	2390.6	2525.2	2710.7	2860.3	3530.5	3476.7	3012.9	2974.0	3001.0
65°	4021.2	2345.7	2175.2	2256.0	2357.7	2471.4	2926.2	3096.7	2722.7	2585.1	2588.1
67.5°	2055.5	1995.7	2013.6	2070.4	2148.2	2205.1	2360.7	2510.3	2321.8	2205.1	2202.1
70°	1759.3	1807.2	1834.1	1867.0	1917.9	1908.9	1923.8	1950.8	1935.8	1879.0	1876.0
72.5°	1499.0	1573.8	1579.8	1585.7	1603.7	1561.8	1534.9	1490.0	1493.0	1502.0	1505.0
75°	1139.9	1211.8	1229.7	1220.7	1238.7	1184.8	1148.9	1104.0	1050.2	1041.2	1047.2
77.5°	742.0	798.9	825.8	819.8	828.8	786.9	768.9	721.1	658.2	634.3	634.3
80°	448.8	481.7	502.7	508.6	517.6	487.7	457.8	415.9	389.0	362.0	362.0
82.5°	272.3	293.2	308.2	308.2	317.1	284.2	260.3	230.4	218.4	194.5	194.5
85°	137.6	152.6	158.6	155.6	149.6	122.7	113.7	98.7	92.8	80.8	80.8
87.5°	32.9	41.9	41.9	29.9	29.9	15.0	9.0	3.0	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)