

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: P638242

Luminaire Tested: GWS-SA4E-740-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P638242  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4E-740-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

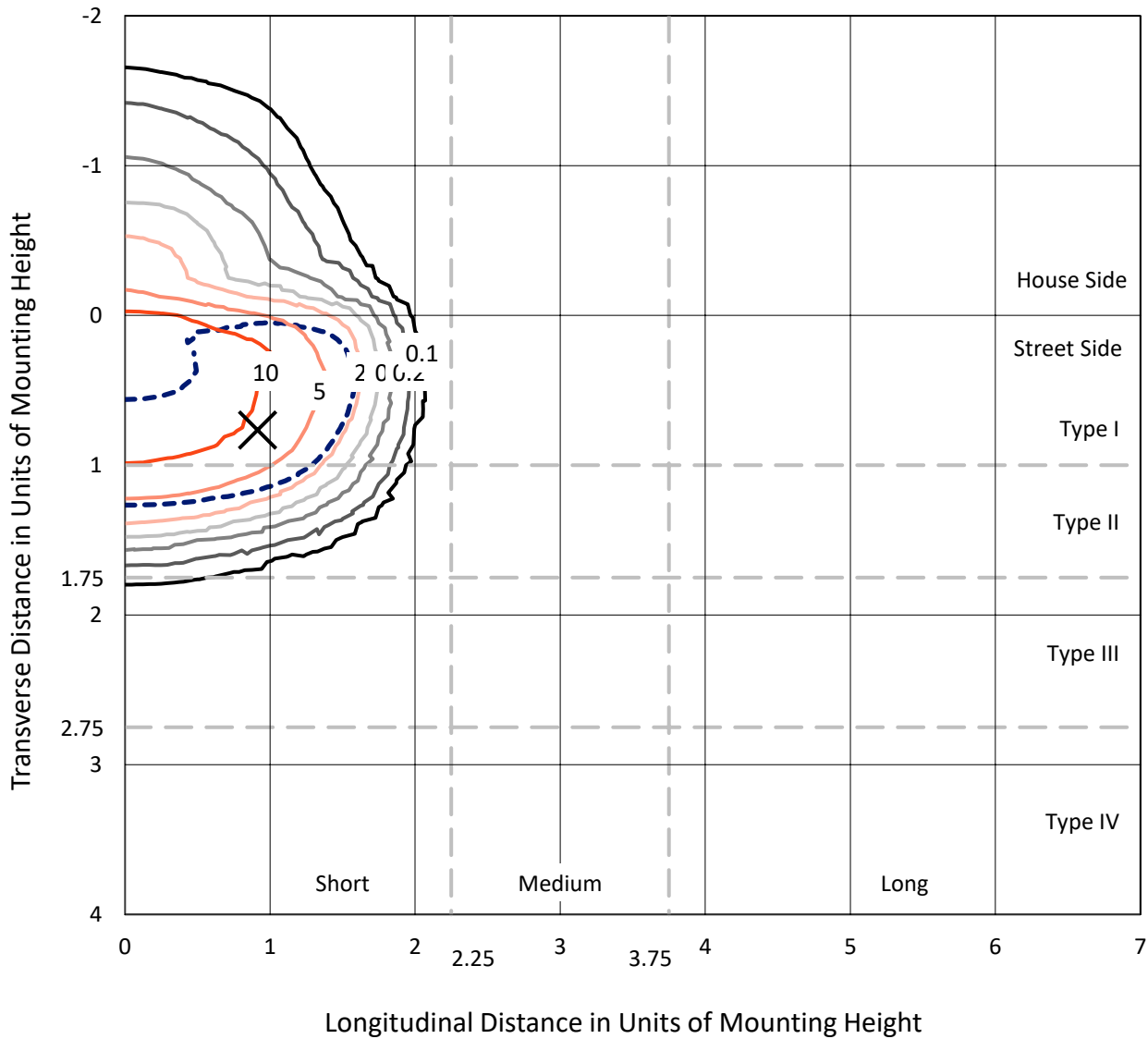
Lumens per Lamp: N/A  
Luminaire Lumens: 23048.2 lumens  
Efficiency: N/A  
Efficacy: 113.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 202.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

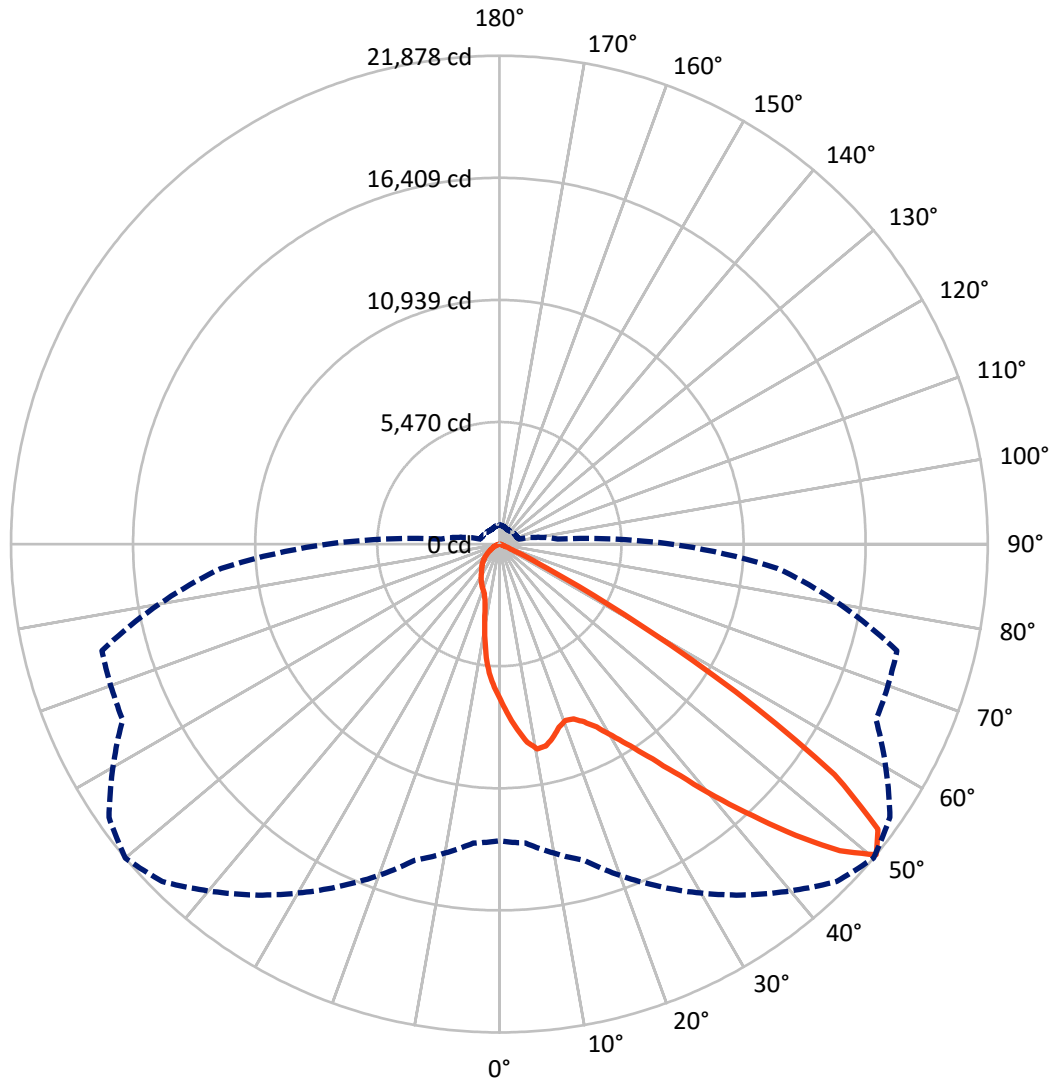
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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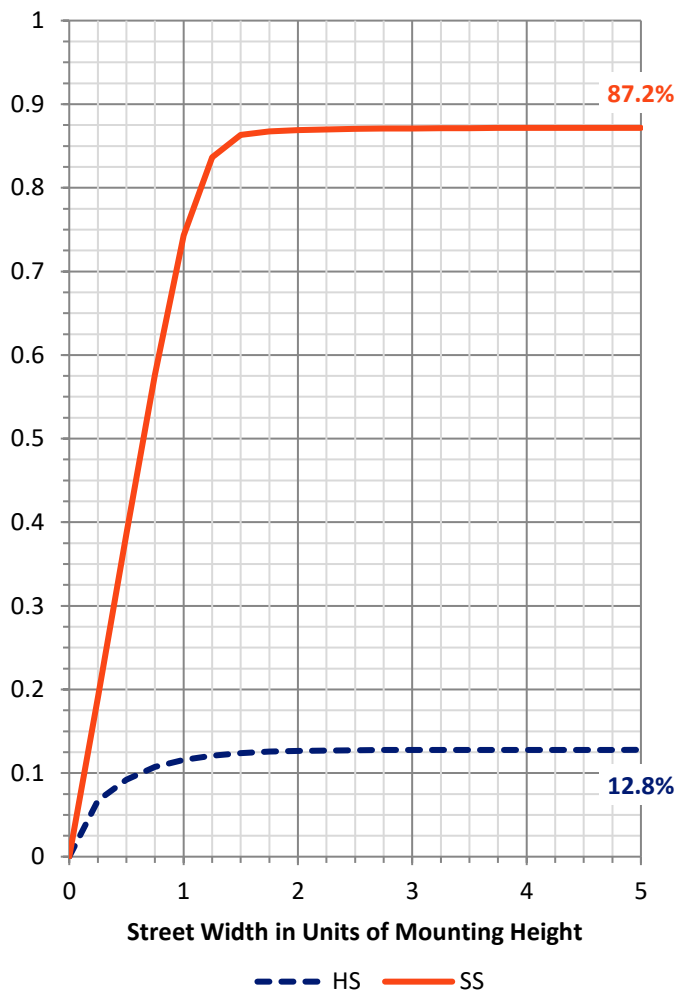
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2961.3	0.0	2961.3
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	20086.9	0.0	20086.9
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	23048.2	0.0	23048.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	647.7	2.8
10°-20°	1671.2	7.3
20°-30°	2758.2	12.0
30°-40°	4551.5	19.7
40°-50°	7201.6	31.2
50°-60°	5452.4	23.7
60°-70°	682.4	3.0
70°-80°	77.2	0.3
80°-90°	5.9	0.0
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°	23048.2	100.0
0°-180°	23048.2	100.0

**Coefficient of Utilization**



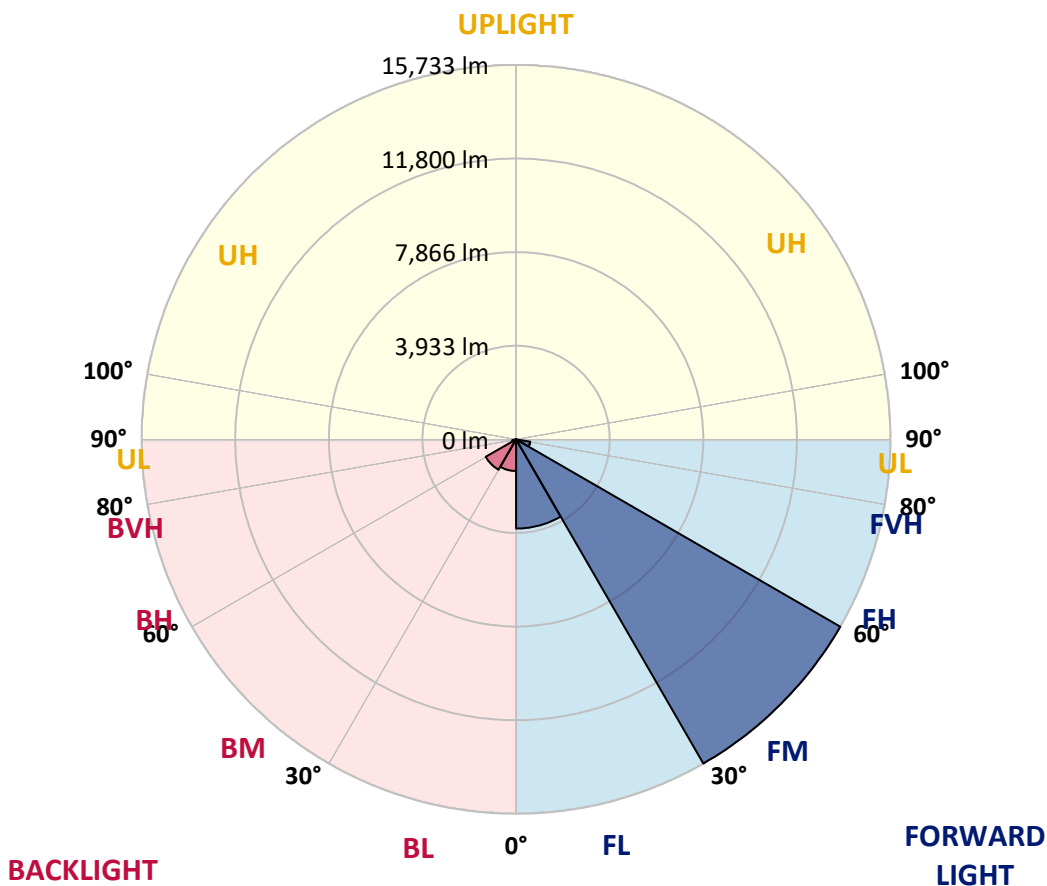
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3748.0	16.3			
FM (30°-60°)	15732.8	68.3			
FH (60°-80°)	603.3	2.6			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	1329.2	5.8	B3/2500		
BM (30°-60°)	1472.7	6.4	B2/2500		
BH (60°-80°)	156.3	0.7	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7
2.5°	7956.7	8020.3	8002.8	7919.4	7829.5	7765.9	7667.1	7636.4	7412.7	7256.9	7092.4
5°	8917.6	8937.3	8915.4	8814.5	8656.5	8505.1	8342.8	8248.5	7873.3	7535.5	7191.1
7.5°	9147.9	9123.8	9165.5	9215.9	9194.0	9128.2	8957.1	8854.0	8406.4	7855.8	7333.7
10°	8428.4	8373.5	8529.3	8790.3	9064.6	9373.9	9330.0	9338.8	8926.3	8259.4	7520.2
12.5°	7474.1	7452.1	7568.4	7871.2	8408.6	9110.6	9279.5	9562.5	9402.4	8696.0	7732.9
15°	7055.1	7066.1	7136.3	7327.1	7713.2	8586.3	8992.2	9503.3	9828.0	9119.4	7967.7
17.5°	7118.7	7158.2	7156.0	7219.6	7454.3	8154.1	8628.0	9316.8	10157.0	9606.4	8237.5
20°	7550.9	7590.4	7531.1	7482.9	7561.8	8044.5	8437.1	9128.2	10378.6	10097.8	8522.7
22.5°	8198.0	8244.1	8103.7	7965.5	7915.0	8224.3	8509.5	9051.4	10547.5	10547.5	8777.2
25°	8981.2	9044.8	8827.6	8581.9	8441.5	8603.9	8818.9	9224.7	10720.8	10951.2	8950.5
27.5°	9856.5	9858.7	9672.2	9395.8	9132.6	9152.3	9281.7	9615.2	10911.7	11385.5	9086.5
30°	10841.5	10848.1	10600.2	10268.9	9937.7	9847.7	9957.4	10209.7	11308.8	11931.8	9275.2
32.5°	12113.9	12144.6	11789.2	11302.2	10872.2	10703.3	10766.9	11032.3	11940.6	12616.2	9558.1
35°	13833.8	13866.7	13342.4	12699.6	12015.1	11760.7	11824.3	12091.9	12855.3	13588.1	10010.1
37.5°	15531.7	15575.6	15044.7	14445.8	13506.9	13085.7	13151.5	13406.0	14228.6	14930.6	10734.0
40°	16705.4	16764.6	16600.1	16196.4	15325.5	14772.7	14851.6	14943.8	15740.1	16536.4	11672.9
42.5°	17324.0	17407.4	17477.6	17683.8	17225.3	16762.4	16628.6	16635.2	17277.9	18173.0	12649.1
45°	17361.3	17442.5	17802.2	18598.6	18947.4	18850.8	18607.3	18442.8	18451.6	19263.3	13259.0
47.5°	16154.7	16306.1	16979.6	18539.3	19851.2	20651.9	20529.1	20138.6	18945.2	19335.7	13193.2
50°	13296.3	13445.5	14669.6	16913.8	19193.1	21371.5	21878.2	21353.9	18622.7	18434.0	12515.3
52.5°	9656.9	9672.2	10466.4	13087.9	16525.5	20044.2	21237.6	21187.2	18131.3	17341.5	11589.6
55°	4587.1	4532.3	5425.1	7386.3	11429.4	16211.8	18223.4	18793.8	17433.7	16551.8	10872.2
57.5°	1336.0	1362.3	1759.4	2882.6	5716.9	10361.1	12480.2	13542.0	14309.8	13607.8	8432.8
60°	598.9	601.1	669.1	877.5	1904.2	4819.7	6451.8	7765.9	8555.6	7928.2	4183.5
62.5°	434.4	436.6	462.9	495.8	647.2	1632.1	2419.7	3224.8	3284.0	2149.9	1059.6
65°	362.0	362.0	366.4	366.4	388.3	583.5	734.9	947.7	798.5	592.3	414.6
67.5°	291.8	294.0	298.3	298.3	291.8	291.8	315.9	346.6	370.7	458.5	381.7
70°	228.1	226.0	226.0	228.1	221.6	188.7	204.0	232.5	254.5	357.6	331.3
72.5°	177.7	179.9	177.7	168.9	153.6	111.9	120.7	151.4	162.3	223.8	223.8
75°	133.8	136.0	127.2	96.5	63.6	35.1	46.1	74.6	94.3	109.7	81.2
77.5°	17.5	17.5	13.2	13.2	11.0	13.2	13.2	17.5	26.3	26.3	19.7
80°	2.2	2.2	2.2	4.4	6.6	8.8	8.8	8.8	8.8	11.0	11.0
82.5°	2.2	2.2	2.2	2.2	6.6	6.6	8.8	8.8	8.8	8.8	8.8
85°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	8.8	8.8	8.8	8.8
87.5°	0.0	0.0	0.0	2.2	4.4	6.6	6.6	6.6	8.8	8.8	8.8
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°	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7	6982.7
2.5°	6993.7	6866.4	6712.9	6607.6	6458.4	6359.7	6219.3	6124.9	6043.8	5980.1	6015.2
5°	6995.9	6794.0	6480.3	6212.7	5920.9	5653.3	5365.9	5139.9	4935.9	4843.8	4894.2
7.5°	7039.7	6750.2	6269.7	5793.7	5234.3	4681.5	4163.7	3742.5	3534.1	3435.4	3466.1
10°	7125.3	6730.4	6035.0	5245.2	4337.0	3582.4	3080.0	2794.8	2678.6	2617.1	2628.1
12.5°	7204.3	6717.2	5730.1	4523.5	3422.2	2779.5	2518.4	2478.9	2503.1	2505.3	2503.1
15°	7311.7	6693.1	5352.7	3782.0	2737.8	2402.2	2408.7	2465.8	2522.8	2540.4	2536.0
17.5°	7425.8	6655.8	4865.7	3071.2	2323.2	2292.5	2369.2	2446.0	2503.1	2511.8	2514.0
20°	7544.3	6579.0	4310.7	2507.4	2130.1	2209.1	2294.7	2351.7	2393.4	2406.5	2410.9
22.5°	7599.1	6416.7	3670.1	2103.8	2000.7	2106.0	2169.6	2244.2	2257.4	2209.1	2217.9
25°	7570.6	6142.5	3044.9	1831.8	1871.3	1976.6	2070.9	2033.6	1978.8	1943.7	1954.6
27.5°	7480.7	5778.3	2432.9	1632.1	1733.1	1866.9	1877.8	1836.2	1827.4	1798.9	1807.6
30°	7384.1	5359.3	1956.8	1472.0	1592.7	1733.1	1700.2	1715.5	1717.7	1684.8	1695.8
32.5°	7324.9	4920.6	1557.6	1364.5	1502.7	1529.0	1594.9	1625.6	1627.8	1551.0	1564.1
35°	7344.7	4488.4	1318.4	1276.8	1419.4	1412.8	1504.9	1522.5	1395.2	1289.9	1300.9
37.5°	7504.8	4089.1	1182.4	1208.8	1274.6	1325.0	1395.2	1279.0	1250.4	1202.2	1208.8
40°	7803.1	3749.1	1101.3	1167.1	1175.8	1257.0	1149.5	1164.9	1167.1	1136.4	1142.9
42.5°	8152.0	3466.1	1053.0	1142.9	1121.0	1134.2	1026.7	1057.4	1090.3	1077.1	1079.3
45°	8327.5	3189.7	1011.3	1059.6	1066.2	941.1	917.0	949.9	991.6	998.2	1000.3
47.5°	8171.7	2926.5	967.4	938.9	982.8	857.8	829.2	840.2	888.5	914.8	919.2
50°	7695.7	2623.7	901.6	831.4	807.3	770.0	743.7	745.9	800.7	846.8	855.6
52.5°	7026.6	2307.8	794.1	704.2	649.3	677.9	684.4	671.3	721.7	767.8	776.6
55°	6377.2	1912.9	629.6	572.6	522.1	583.5	601.1	583.5	598.9	629.6	631.8
57.5°	4490.6	1081.5	482.6	473.8	432.2	500.2	528.7	502.4	476.0	495.8	500.2
60°	2081.9	566.0	370.7	370.7	359.8	430.0	478.2	440.9	390.5	399.3	405.8
62.5°	651.5	357.6	272.0	256.7	294.0	366.4	405.8	368.5	309.3	309.3	318.1
65°	368.5	307.1	215.0	197.4	239.1	294.0	318.1	278.6	226.0	221.6	221.6
67.5°	342.2	291.8	190.9	160.1	168.9	188.7	197.4	171.1	155.8	153.6	155.8
70°	283.0	243.5	153.6	109.7	103.1	100.9	105.3	98.7	94.3	96.5	103.1
72.5°	175.5	147.0	96.5	65.8	57.0	54.8	54.8	54.8	52.6	52.6	52.6
75°	63.6	54.8	43.9	32.9	28.5	26.3	26.3	28.5	26.3	24.1	21.9
77.5°	19.7	17.5	17.5	17.5	15.4	13.2	11.0	11.0	8.8	6.6	6.6
80°	11.0	11.0	11.0	11.0	8.8	8.8	6.6	4.4	2.2	2.2	0.0
82.5°	11.0	11.0	11.0	8.8	8.8	8.8	6.6	4.4	2.2	0.0	0.0
85°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	4.4	2.2	0.0	0.0
87.5°	8.8	8.8	8.8	8.8	8.8	8.8	6.6	4.4	2.2	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)