

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: P631422

Luminaire Tested: GWS-SA1F-760-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631422  
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-SA1F-760-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

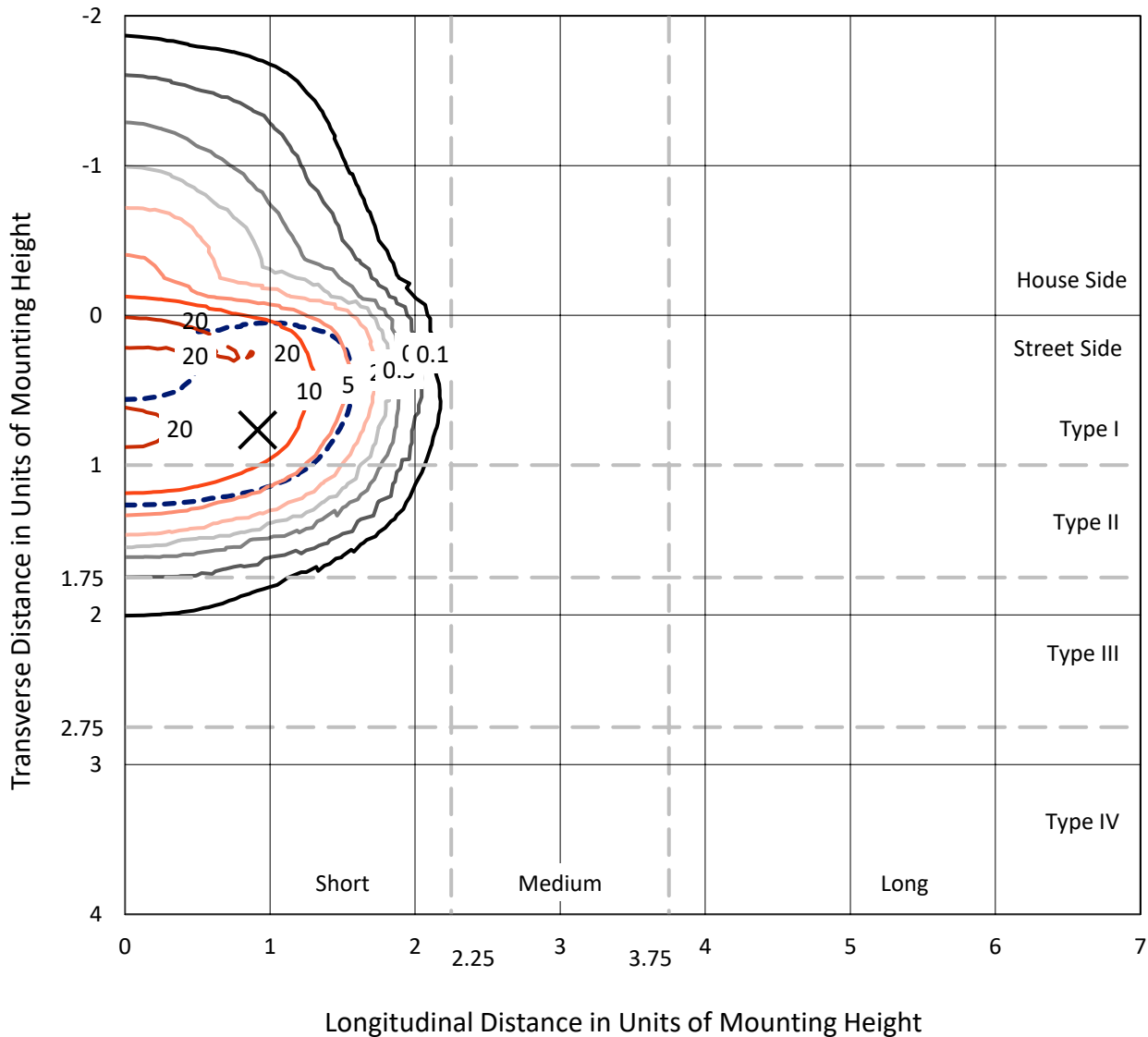
Lumens per Lamp: N/A  
Luminaire Lumens: 6401.6 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

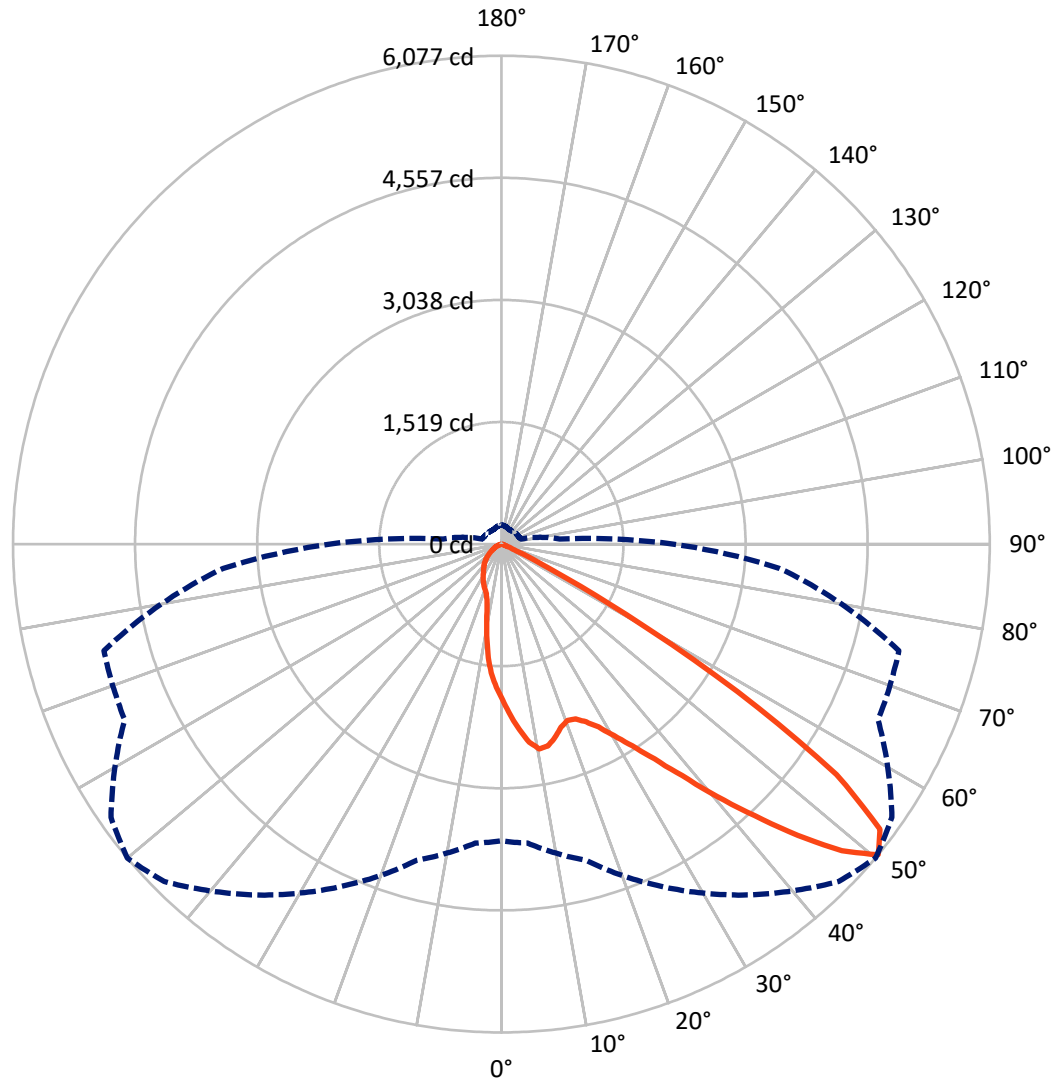
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 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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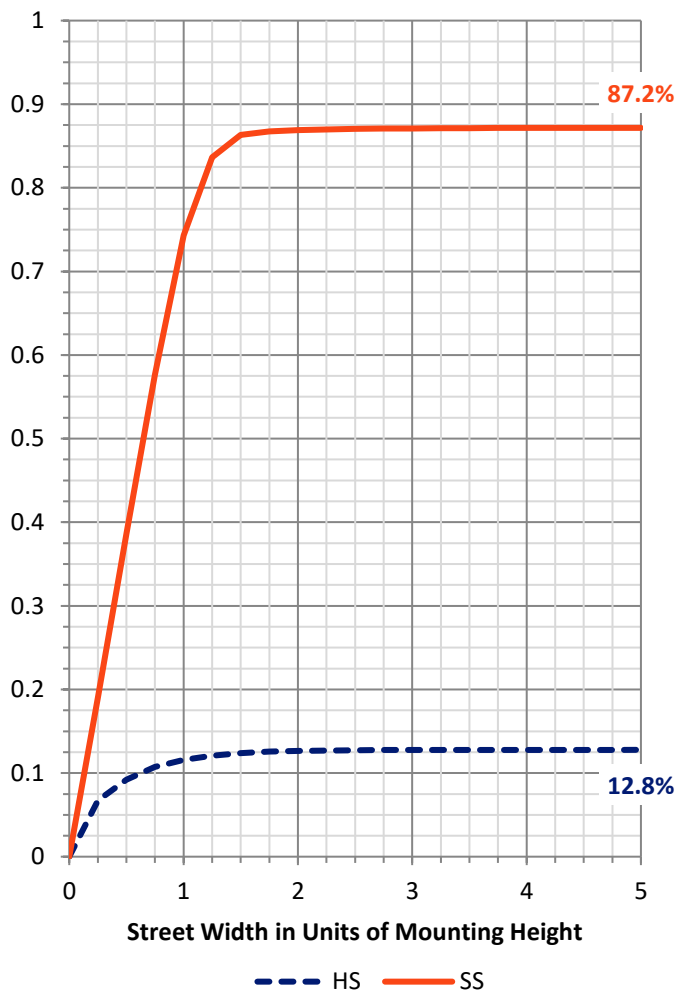
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	822.5	0.0	822.5
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5579.1	0.0	5579.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6401.6	0.0	6401.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.9	2.8
10°-20°	464.2	7.3
20°-30°	766.1	12.0
30°-40°	1264.2	19.7
40°-50°	2000.2	31.2
50°-60°	1514.4	23.7
60°-70°	189.5	3.0
70°-80°	21.4	0.3
80°-90°	1.6	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°	6401.6	100.0
0°-180°	6401.6	100.0

**Coefficient of Utilization**



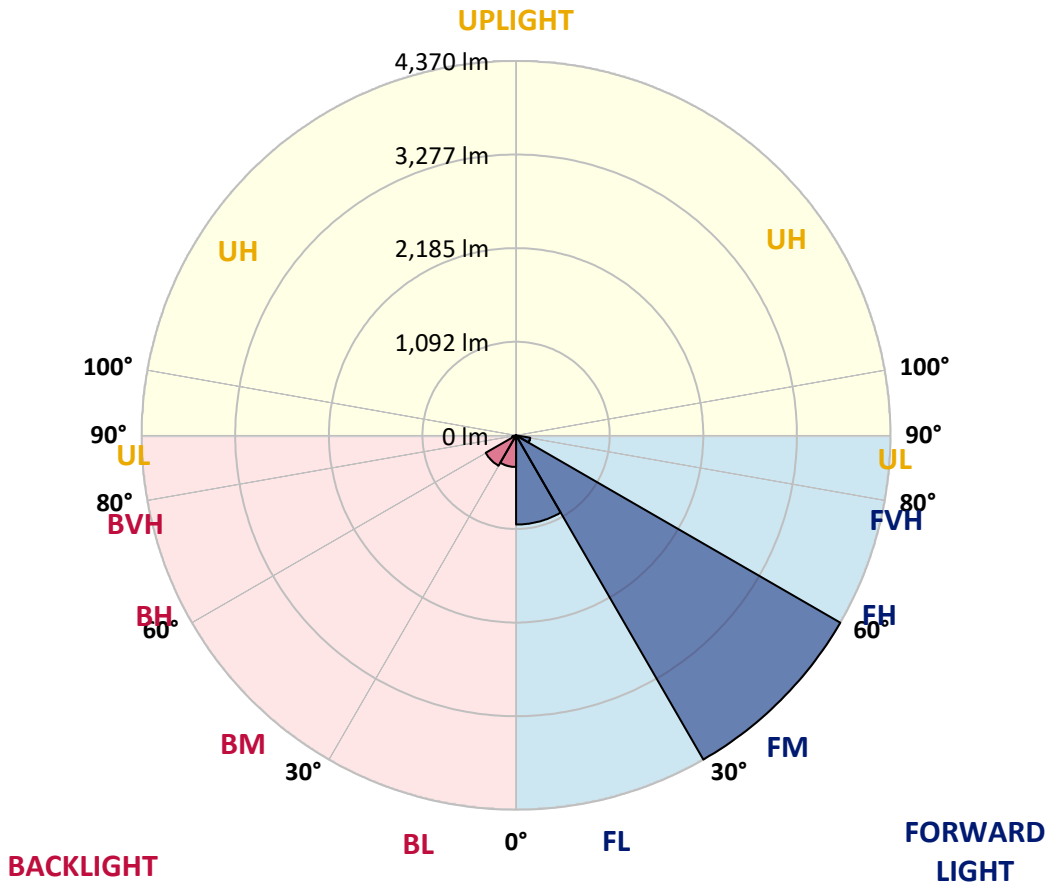
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1041.0	16.3			
FM (30°-60°)	4369.8	68.3			
FH (60°-80°)	167.6	2.6			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	369.2	5.8	B1/500		
BM (30°-60°)	409.1	6.4	B1/1000		
BH (60°-80°)	43.4	0.7	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	2210.0	2227.6	2222.8	2199.6	2174.6	2157.0	2129.5	2121.0	2058.9	2015.6	1969.9
5°	2476.8	2482.3	2476.2	2448.2	2404.3	2362.3	2317.2	2291.0	2186.8	2093.0	1997.3
7.5°	2540.8	2534.1	2545.7	2559.7	2553.6	2535.3	2487.8	2459.2	2334.9	2181.9	2036.9
10°	2341.0	2325.7	2369.0	2441.5	2517.7	2603.6	2591.4	2593.8	2479.3	2294.0	2088.7
12.5°	2075.9	2069.8	2102.1	2186.2	2335.5	2530.5	2577.4	2656.0	2611.5	2415.3	2147.8
15°	1959.5	1962.6	1982.1	2035.1	2142.3	2384.8	2497.6	2639.5	2729.7	2532.9	2213.0
17.5°	1977.2	1988.2	1987.6	2005.2	2070.4	2264.8	2396.4	2587.7	2821.1	2668.2	2288.0
20°	2097.2	2108.2	2091.8	2078.4	2100.3	2234.3	2343.4	2535.3	2882.6	2804.6	2367.2
22.5°	2277.0	2289.8	2250.8	2212.4	2198.4	2284.3	2363.5	2514.0	2929.6	2929.6	2437.8
25°	2494.5	2512.2	2451.9	2383.6	2344.6	2389.7	2449.4	2562.1	2977.7	3041.7	2486.0
27.5°	2737.6	2738.2	2686.4	2609.7	2536.6	2542.0	2578.0	2670.6	3030.7	3162.3	2523.8
30°	3011.2	3013.0	2944.2	2852.2	2760.2	2735.2	2765.7	2835.7	3141.0	3314.0	2576.2
32.5°	3364.6	3373.1	3274.4	3139.2	3019.7	2972.8	2990.5	3064.2	3316.5	3504.1	2654.8
35°	3842.3	3851.4	3705.8	3527.3	3337.2	3266.5	3284.2	3358.5	3570.6	3774.1	2780.3
37.5°	4313.9	4326.1	4178.6	4012.3	3751.5	3634.5	3652.8	3723.5	3952.0	4147.0	2981.3
40°	4639.9	4656.3	4610.6	4498.5	4256.6	4103.1	4125.0	4150.6	4371.8	4593.0	3242.1
42.5°	4811.7	4834.9	4854.4	4911.6	4784.3	4655.7	4618.6	4620.4	4798.9	5047.5	3513.3
45°	4822.1	4844.6	4944.5	5165.7	5262.6	5235.8	5168.2	5122.5	5124.9	5350.3	3682.7
47.5°	4487.0	4529.0	4716.1	5149.3	5513.6	5736.0	5701.9	5593.5	5262.0	5370.4	3664.4
50°	3693.0	3734.5	4074.4	4697.8	5330.8	5935.9	6076.6	5931.0	5172.4	5120.0	3476.1
52.5°	2682.2	2686.4	2907.0	3635.1	4589.9	5567.3	5898.7	5884.7	5035.9	4816.6	3219.0
55°	1274.1	1258.8	1506.8	2051.5	3174.5	4502.8	5061.5	5219.9	4842.2	4597.2	3019.7
57.5°	371.1	378.4	488.7	800.6	1587.9	2877.8	3466.4	3761.3	3974.5	3779.5	2342.2
60°	166.3	167.0	185.8	243.7	528.9	1338.7	1792.0	2157.0	2376.3	2202.0	1162.0
62.5°	120.6	121.3	128.6	137.7	179.7	453.3	672.1	895.7	912.1	597.1	294.3
65°	100.5	100.5	101.8	101.8	107.8	162.1	204.1	263.2	221.8	164.5	115.2
67.5°	81.0	81.6	82.9	82.9	81.0	81.0	87.7	96.3	103.0	127.3	106.0
70°	63.4	62.8	62.8	63.4	61.5	52.4	56.7	64.6	70.7	99.3	92.0
72.5°	49.4	50.0	49.4	46.9	42.7	31.1	33.5	42.0	45.1	62.1	62.1
75°	37.2	37.8	35.3	26.8	17.7	9.7	12.8	20.7	26.2	30.5	22.5
77.5°	4.9	4.9	3.7	3.7	3.0	3.7	3.7	4.9	7.3	7.3	5.5
80°	0.6	0.6	0.6	1.2	1.8	2.4	2.4	2.4	2.4	3.0	3.0
82.5°	0.6	0.6	0.6	0.6	1.8	1.8	2.4	2.4	2.4	2.4	2.4
85°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	2.4	2.4	2.4	2.4
87.5°	0.0	0.0	0.0	0.6	1.2	1.8	1.8	1.8	2.4	2.4	2.4
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°	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4	1939.4
2.5°	1942.5	1907.1	1864.5	1835.2	1793.8	1766.4	1727.4	1701.2	1678.6	1661.0	1670.7
5°	1943.1	1887.0	1799.9	1725.6	1644.5	1570.2	1490.4	1427.6	1370.9	1345.4	1359.4
7.5°	1955.3	1874.8	1741.4	1609.2	1453.8	1300.3	1156.5	1039.5	981.6	954.2	962.7
10°	1979.0	1869.4	1676.2	1456.9	1204.6	995.0	855.5	776.3	744.0	726.9	730.0
12.5°	2001.0	1865.7	1591.5	1256.4	950.5	772.0	699.5	688.5	695.2	695.8	695.2
15°	2030.8	1859.0	1486.7	1050.4	760.4	667.2	669.0	684.9	700.7	705.6	704.4
17.5°	2062.5	1848.6	1351.4	853.0	645.3	636.7	658.1	679.4	695.2	697.7	698.3
20°	2095.4	1827.3	1197.3	696.4	591.6	613.6	637.3	653.2	664.8	668.4	669.6
22.5°	2110.6	1782.2	1019.4	584.3	555.7	584.9	602.6	623.3	627.0	613.6	616.0
25°	2102.7	1706.1	845.7	508.8	519.7	549.0	575.2	564.8	549.6	539.8	542.9
27.5°	2077.7	1604.9	675.7	453.3	481.4	518.5	521.6	510.0	507.6	499.6	502.1
30°	2050.9	1488.5	543.5	408.8	442.4	481.4	472.2	476.5	477.1	467.9	471.0
32.5°	2034.5	1366.7	432.6	379.0	417.4	424.7	443.0	451.5	452.1	430.8	434.4
35°	2040.0	1246.6	366.2	354.6	394.2	392.4	418.0	422.9	387.5	358.3	361.3
37.5°	2084.4	1135.8	328.4	335.7	354.0	368.0	387.5	355.2	347.3	333.9	335.7
40°	2167.3	1041.3	305.9	324.2	326.6	349.1	319.3	323.5	324.2	315.6	317.4
42.5°	2264.2	962.7	292.5	317.4	311.4	315.0	285.2	293.7	302.8	299.2	299.8
45°	2312.9	885.9	280.9	294.3	296.1	261.4	254.7	263.8	275.4	277.2	277.8
47.5°	2269.7	812.8	268.7	260.8	273.0	238.2	230.3	233.4	246.8	254.1	255.3
50°	2137.5	728.7	250.4	230.9	224.2	213.9	206.6	207.2	222.4	235.2	237.6
52.5°	1951.6	641.0	220.6	195.6	180.4	188.3	190.1	186.4	200.5	213.3	215.7
55°	1771.3	531.3	174.9	159.0	145.0	162.1	167.0	162.1	166.3	174.9	175.5
57.5°	1247.3	300.4	134.0	131.6	120.0	138.9	146.8	139.5	132.2	137.7	138.9
60°	578.2	157.2	103.0	103.0	99.9	119.4	132.8	122.5	108.5	110.9	112.7
62.5°	181.0	99.3	75.6	71.3	81.6	101.8	112.7	102.4	85.9	85.9	88.3
65°	102.4	85.3	59.7	54.8	66.4	81.6	88.3	77.4	62.8	61.5	61.5
67.5°	95.1	81.0	53.0	44.5	46.9	52.4	54.8	47.5	43.3	42.7	43.3
70°	78.6	67.6	42.7	30.5	28.6	28.0	29.2	27.4	26.2	26.8	28.6
72.5°	48.7	40.8	26.8	18.3	15.8	15.2	15.2	15.2	14.6	14.6	14.6
75°	17.7	15.2	12.2	9.1	7.9	7.3	7.3	7.9	7.3	6.7	6.1
77.5°	5.5	4.9	4.9	4.9	4.3	3.7	3.0	3.0	2.4	1.8	1.8
80°	3.0	3.0	3.0	3.0	2.4	2.4	1.8	1.2	0.6	0.6	0.0
82.5°	3.0	3.0	3.0	2.4	2.4	2.4	1.8	1.2	0.6	0.0	0.0
85°	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	1.8	1.2	0.6	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)