

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: P631257

Luminaire Tested: GWS-SA1F-735-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631257  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

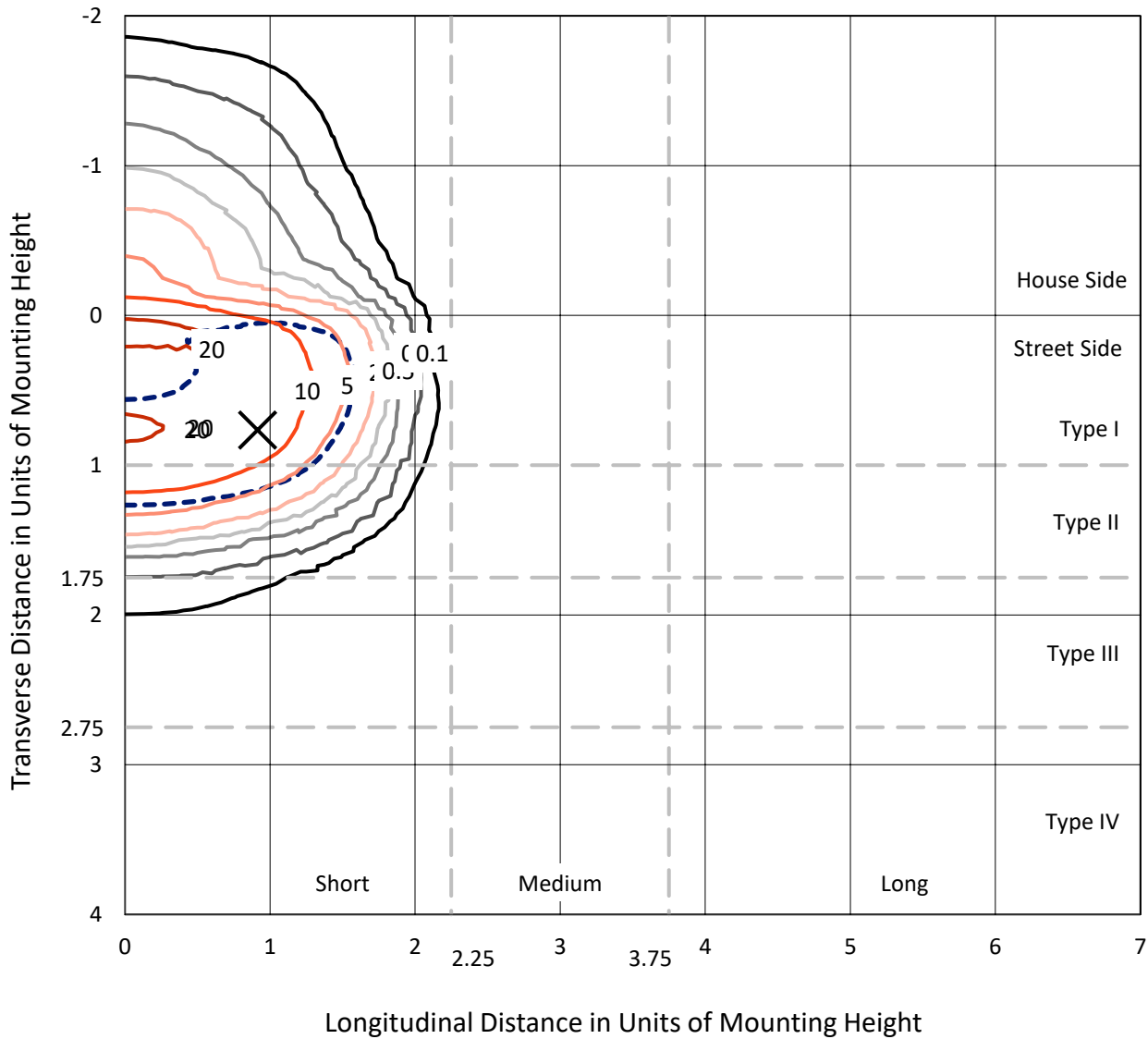
Lumens per Lamp: N/A  
Luminaire Lumens: 6258.2 lumens  
Efficiency: N/A  
Efficacy: 93.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

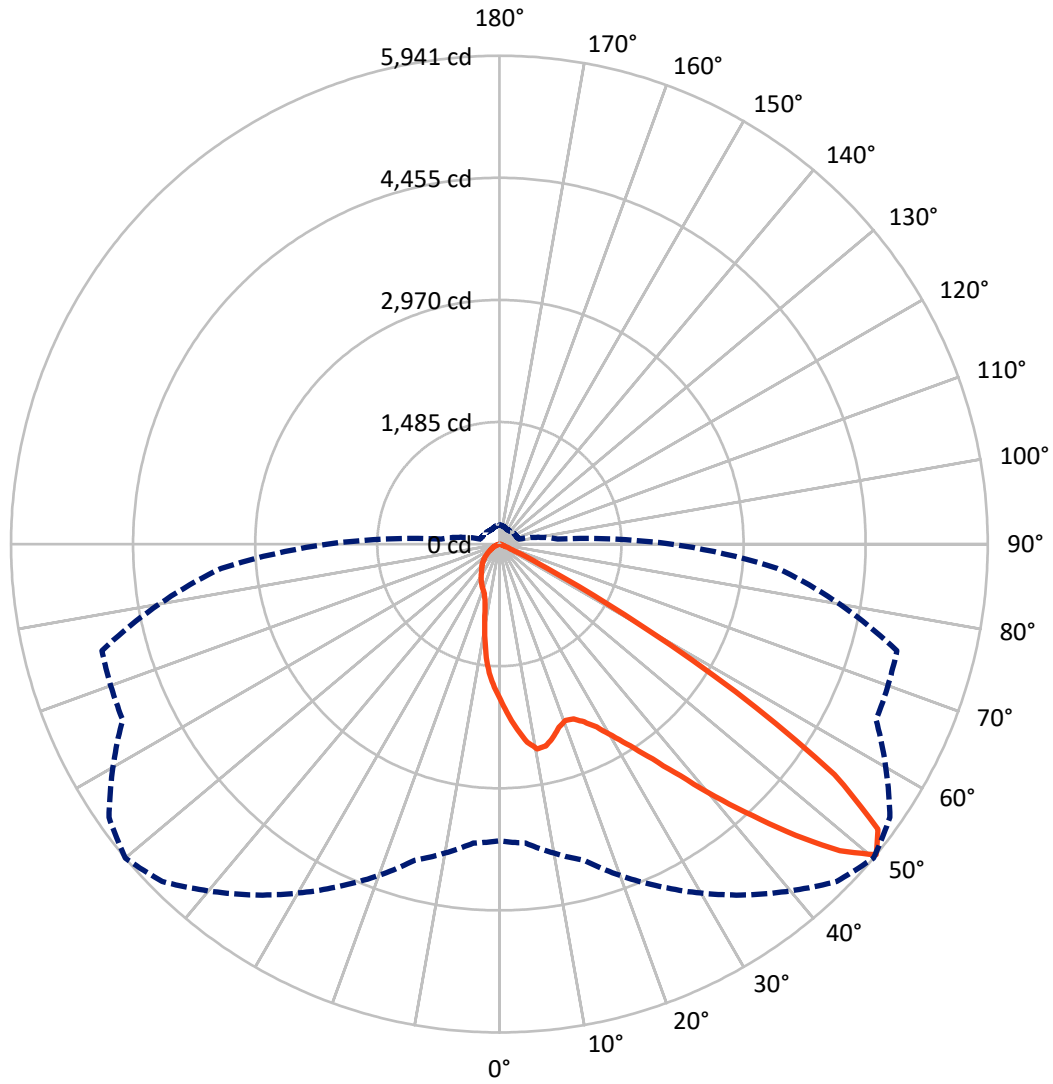
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.3 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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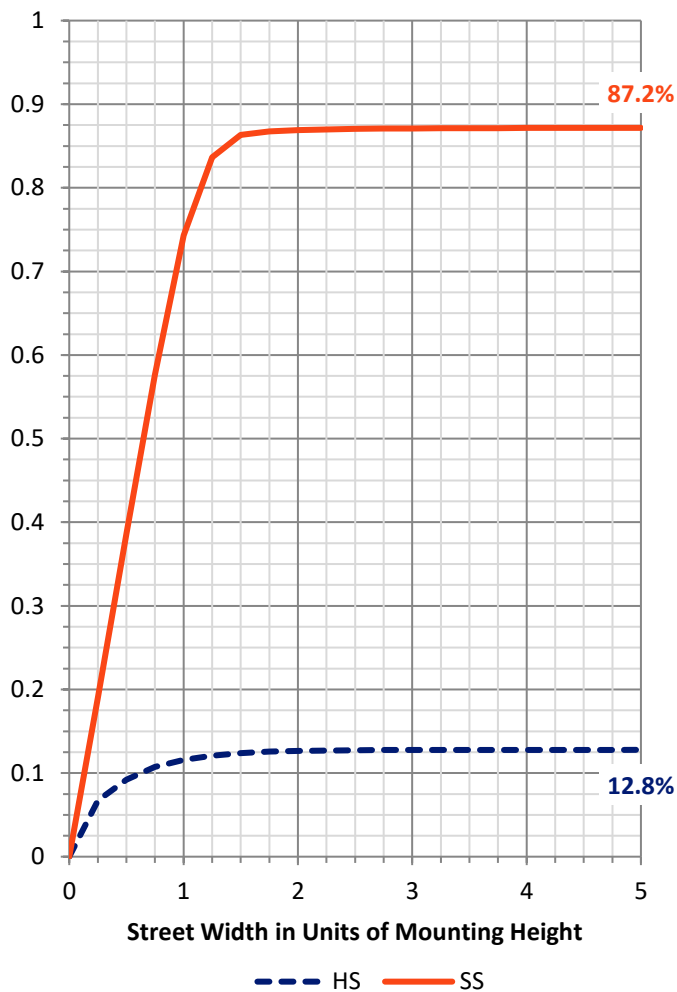
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	804.1	0.0	804.1
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	5454.1	0.0	5454.1
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	6258.2	0.0	6258.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.9	2.8
10°-20°	453.8	7.3
20°-30°	748.9	12.0
30°-40°	1235.9	19.7
40°-50°	1955.4	31.2
50°-60°	1480.5	23.7
60°-70°	185.3	3.0
70°-80°	21.0	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°	6258.2	100.0
0°-180°	6258.2	100.0

**Coefficient of Utilization**



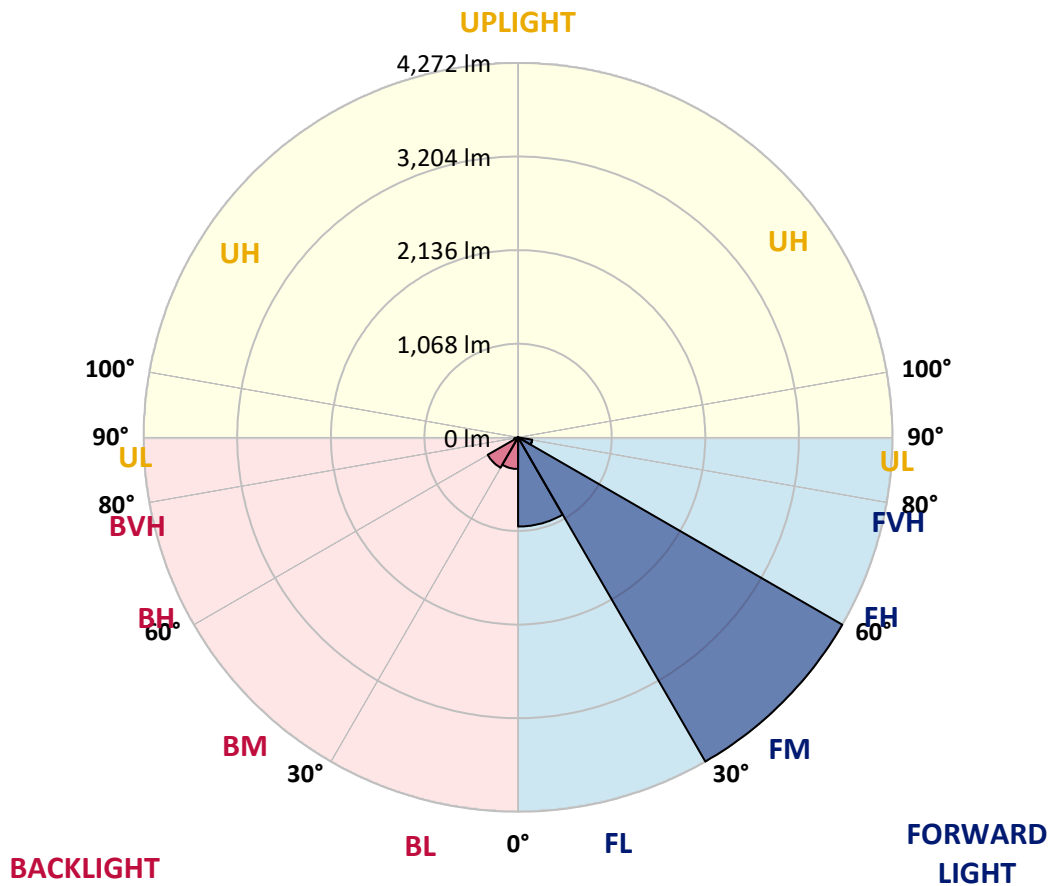
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.7	16.3			
FM (30°-60°)	4271.9	68.3			
FH (60°-80°)	163.8	2.6			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	360.9	5.8	B1/500		
BM (30°-60°)	399.9	6.4	B1/1000		
BH (60°-80°)	42.4	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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	2160.5	2177.7	2173.0	2150.3	2125.9	2108.6	2081.8	2073.5	2012.7	1970.4	1925.8
5°	2421.4	2426.7	2420.8	2393.4	2350.5	2309.4	2265.3	2239.7	2137.8	2046.1	1952.6
7.5°	2483.9	2477.3	2488.7	2502.4	2496.4	2478.5	2432.1	2404.1	2282.6	2133.1	1991.3
10°	2288.5	2273.6	2315.9	2386.8	2461.3	2545.3	2533.3	2535.7	2423.7	2242.7	2041.9
12.5°	2029.4	2023.5	2055.0	2137.2	2283.2	2473.8	2519.6	2596.5	2553.0	2361.2	2099.7
15°	1915.6	1918.6	1937.7	1989.5	2094.3	2331.4	2441.6	2580.4	2668.6	2476.2	2163.4
17.5°	1932.9	1943.6	1943.0	1960.3	2024.1	2214.1	2342.7	2529.8	2757.9	2608.4	2236.7
20°	2050.3	2061.0	2044.9	2031.8	2053.2	2184.3	2290.9	2478.5	2818.1	2741.8	2314.1
22.5°	2226.0	2238.5	2200.4	2162.8	2149.1	2233.1	2310.6	2457.7	2863.9	2863.9	2383.2
25°	2438.6	2455.9	2396.9	2330.2	2292.1	2336.2	2394.6	2504.8	2911.0	2973.5	2430.3
27.5°	2676.3	2676.9	2626.3	2551.2	2479.7	2485.1	2520.2	2610.8	2962.8	3091.5	2467.2
30°	2943.8	2945.5	2878.2	2788.3	2698.3	2673.9	2703.7	2772.2	3070.6	3239.8	2518.5
32.5°	3289.2	3297.6	3201.1	3068.8	2952.1	2906.2	2923.5	2995.6	3242.2	3425.6	2595.3
35°	3756.2	3765.2	3622.8	3448.3	3262.4	3193.3	3210.6	3283.3	3490.6	3689.5	2718.0
37.5°	4217.3	4229.2	4085.0	3922.4	3667.5	3553.1	3571.0	3640.1	3863.5	4054.1	2914.6
40°	4536.0	4552.0	4507.4	4397.8	4161.3	4011.2	4032.6	4057.6	4273.9	4490.1	3169.5
42.5°	4703.9	4726.6	4745.6	4801.6	4677.1	4551.4	4515.1	4516.9	4691.4	4934.4	3434.6
45°	4714.1	4736.1	4833.8	5050.0	5144.7	5118.5	5052.4	5007.7	5010.1	5230.5	3600.2
47.5°	4386.4	4427.5	4610.4	5033.9	5390.1	5607.5	5574.2	5468.2	5144.1	5250.1	3582.3
50°	3610.3	3650.8	3983.2	4592.5	5211.4	5802.9	5940.5	5798.2	5056.6	5005.3	3398.2
52.5°	2622.1	2626.3	2841.9	3553.7	4487.1	5442.5	5766.6	5752.9	4923.1	4708.7	3146.9
55°	1245.5	1230.6	1473.1	2005.6	3103.4	4401.9	4948.1	5103.0	4733.7	4494.3	2952.1
57.5°	362.8	369.9	477.7	782.7	1552.3	2813.3	3388.7	3677.0	3885.5	3694.9	2289.7
60°	162.6	163.2	181.7	238.3	517.0	1308.7	1751.8	2108.6	2323.1	2152.7	1135.9
62.5°	117.9	118.5	125.7	134.6	175.7	443.2	657.0	875.6	891.7	583.7	287.7
65°	98.3	98.3	99.5	99.5	105.4	158.4	199.5	257.3	216.8	160.8	112.6
67.5°	79.2	79.8	81.0	81.0	79.2	79.2	85.8	94.1	100.7	124.5	103.6
70°	61.9	61.4	61.4	61.9	60.2	51.2	55.4	63.1	69.1	97.1	89.9
72.5°	48.2	48.8	48.2	45.9	41.7	30.4	32.8	41.1	44.1	60.8	60.8
75°	36.3	36.9	34.5	26.2	17.3	9.5	12.5	20.3	25.6	29.8	22.0
77.5°	4.8	4.8	3.6	3.6	3.0	3.6	3.6	4.8	7.1	7.1	5.4
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°	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0	1896.0
2.5°	1899.0	1864.4	1822.7	1794.1	1753.6	1726.8	1688.7	1663.1	1641.0	1623.8	1633.3
5°	1899.6	1844.8	1759.6	1686.9	1607.7	1535.0	1457.0	1395.6	1340.2	1315.2	1328.9
7.5°	1911.5	1832.8	1702.4	1573.1	1421.2	1271.1	1130.6	1016.2	959.6	932.8	941.1
10°	1934.7	1827.5	1638.7	1424.2	1177.6	972.7	836.3	758.9	727.3	710.6	713.6
12.5°	1956.1	1823.9	1555.9	1228.3	929.2	754.7	683.8	673.1	679.6	680.2	679.6
15°	1985.3	1817.4	1453.4	1026.9	743.4	652.2	654.0	669.5	685.0	689.8	688.6
17.5°	2016.3	1807.2	1321.2	833.9	630.8	622.5	643.3	664.2	679.6	682.0	682.6
20°	2048.5	1786.4	1170.5	680.8	578.4	599.8	623.1	638.5	649.9	653.4	654.6
22.5°	2063.4	1742.3	996.5	571.2	543.2	571.8	589.1	609.4	612.9	599.8	602.2
25°	2055.6	1667.8	826.8	497.4	508.1	536.7	562.3	552.2	537.3	527.8	530.7
27.5°	2031.2	1569.0	660.6	443.2	470.6	506.9	509.9	498.6	496.2	488.4	490.8
30°	2005.0	1455.2	531.3	399.7	432.4	470.6	461.6	465.8	466.4	457.5	460.4
32.5°	1988.9	1336.1	422.9	370.5	408.0	415.2	433.0	441.4	442.0	421.1	424.7
35°	1994.3	1218.7	358.0	346.7	385.4	383.6	408.6	413.4	378.8	350.2	353.2
37.5°	2037.8	1110.3	321.1	328.2	346.1	359.8	378.8	347.3	339.5	326.4	328.2
40°	2118.8	1018.0	299.0	316.9	319.3	341.3	312.1	316.3	316.9	308.6	310.3
42.5°	2213.5	941.1	285.9	310.3	304.4	308.0	278.8	287.1	296.0	292.5	293.1
45°	2261.1	866.1	274.6	287.7	289.5	255.5	249.0	257.9	269.2	271.0	271.6
47.5°	2218.8	794.6	262.7	254.9	266.9	232.9	225.2	228.1	241.2	248.4	249.6
50°	2089.6	712.4	244.8	225.8	219.2	209.1	201.9	202.5	217.4	229.9	232.3
52.5°	1907.9	626.6	215.6	191.2	176.3	184.1	185.8	182.3	196.0	208.5	210.9
55°	1731.6	519.4	171.0	155.5	141.8	158.4	163.2	158.4	162.6	171.0	171.6
57.5°	1219.3	293.7	131.0	128.7	117.3	135.8	143.6	136.4	129.3	134.6	135.8
60°	565.3	153.7	100.7	100.7	97.7	116.7	129.9	119.7	106.0	108.4	110.2
62.5°	176.9	97.1	73.9	69.7	79.8	99.5	110.2	100.1	84.0	84.0	86.4
65°	100.1	83.4	58.4	53.6	64.9	79.8	86.4	75.6	61.4	60.2	60.2
67.5°	92.9	79.2	51.8	43.5	45.9	51.2	53.6	46.5	42.3	41.7	42.3
70°	76.8	66.1	41.7	29.8	28.0	27.4	28.6	26.8	25.6	26.2	28.0
72.5°	47.7	39.9	26.2	17.9	15.5	14.9	14.9	14.9	14.3	14.3	14.3
75°	17.3	14.9	11.9	8.9	7.7	7.1	7.1	7.7	7.1	6.6	6.0
77.5°	5.4	4.8	4.8	4.8	4.2	3.6	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)