

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: P631314

Luminaire Tested: GWS-SA1F-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-740-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

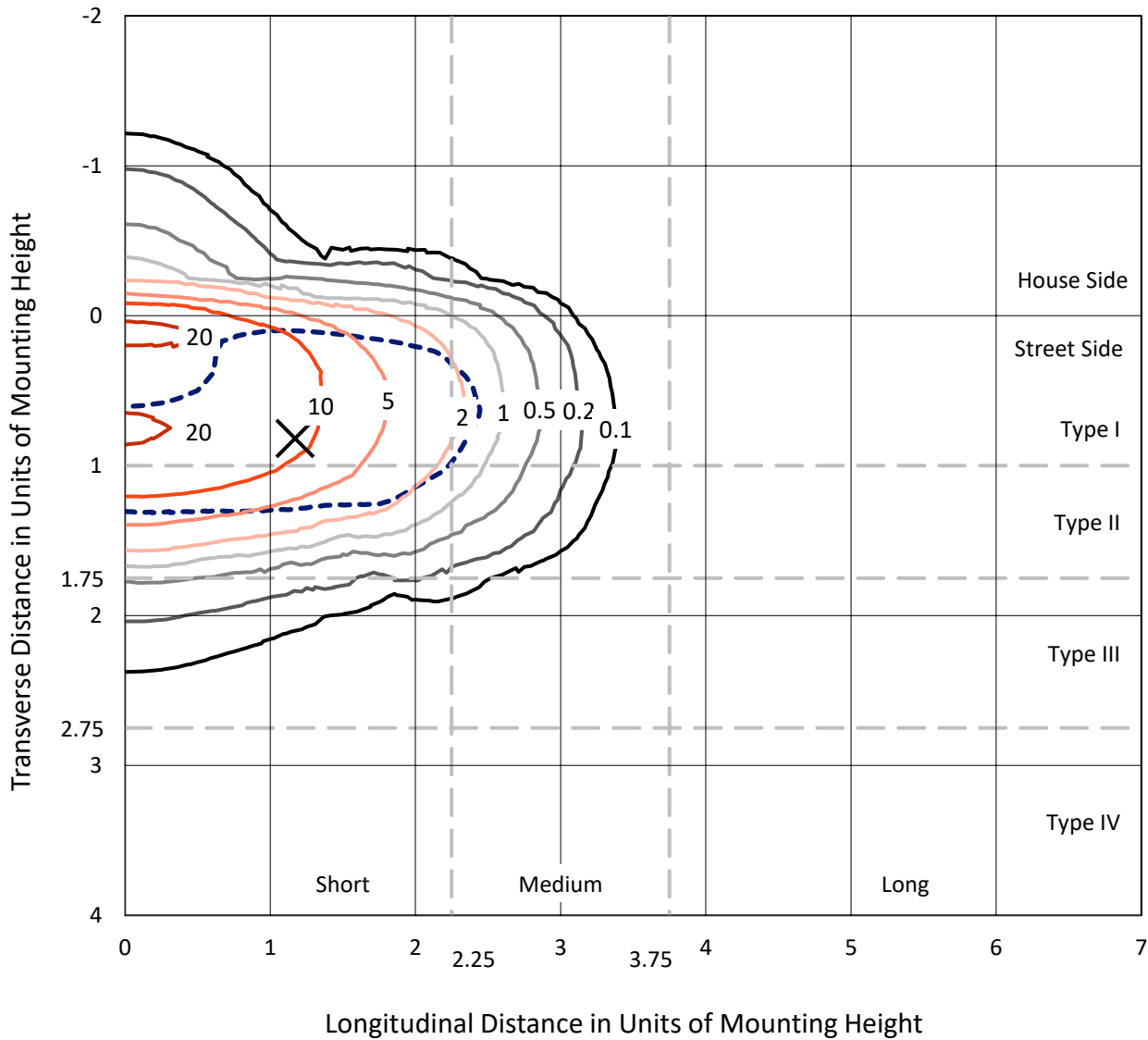
Lumens per Lamp: N/A  
Luminaire Lumens: 7065.1 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

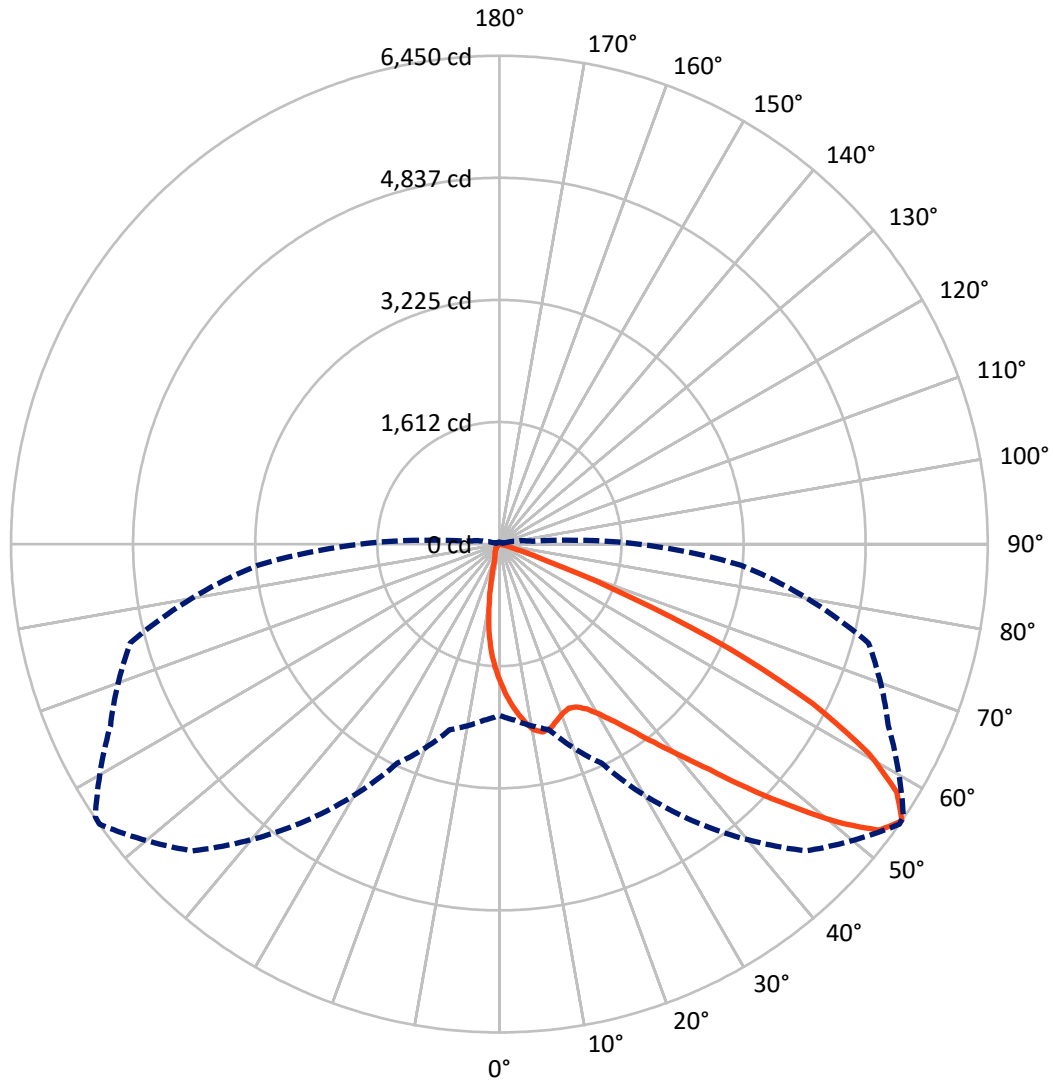
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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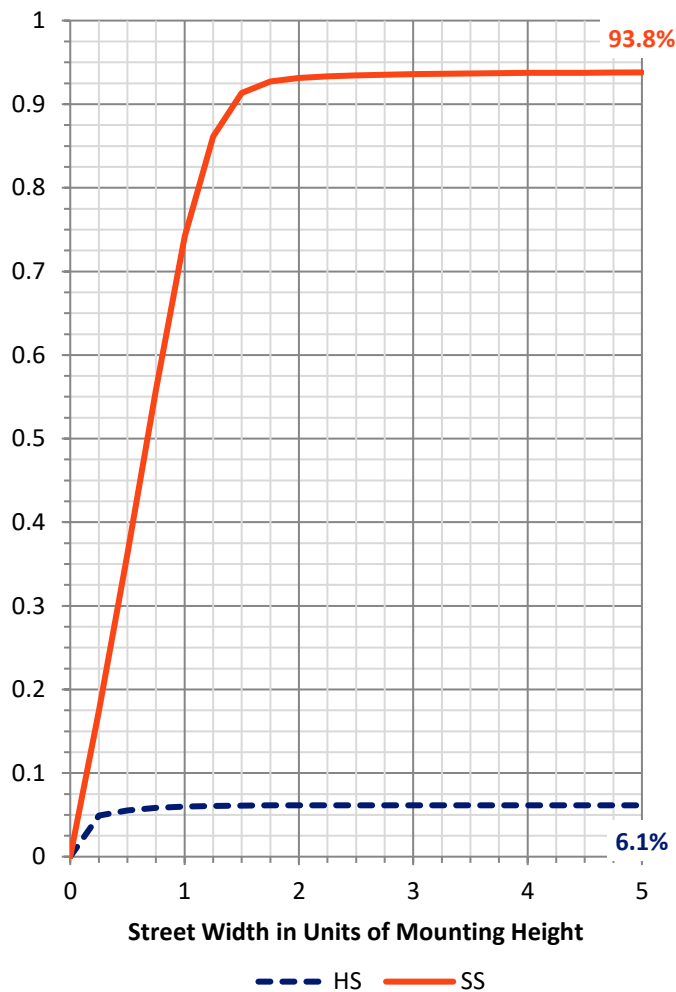
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	435.9	0.0	435.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	6629.2	0.0	6629.2
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	7065.1	0.0	7065.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	2.3
10°-20°	388.9	5.5
20°-30°	647.6	9.2
30°-40°	1103.6	15.6
40°-50°	1801.5	25.5
50°-60°	1886.1	26.7
60°-70°	951.3	13.5
70°-80°	120.2	1.7
80°-90°	4.6	0.1
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°	7065.1	100.0
0°-180°	7065.1	100.0

**Coefficient of Utilization**



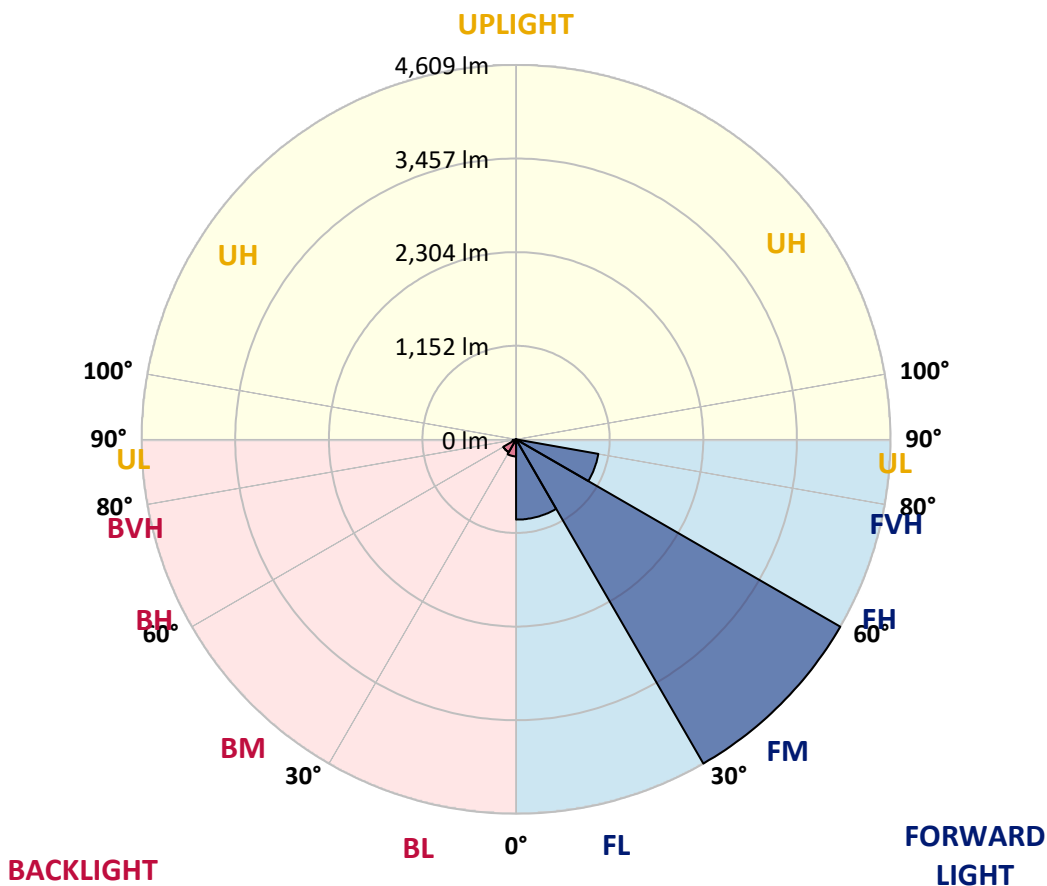
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.3	14.0			
FM (30°-60°)	4609.0	65.2			
FH (60°-80°)	1027.7	14.5			G1/1800
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	209.5	3.0	B1/500		
BM (30°-60°)	182.3	2.6	B0/220		
BH (60°-80°)	43.7	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2
2.5°	2127.8	2117.5	2133.2	2115.1	2084.3	2058.3	2024.5	2012.4	1958.1	1906.7	1857.2
5°	2386.3	2389.3	2384.5	2359.1	2315.6	2267.3	2199.1	2184.0	2089.1	1991.3	1885.6
7.5°	2450.3	2448.5	2458.8	2468.4	2461.2	2437.0	2362.7	2347.6	2229.9	2083.1	1929.1
10°	2252.8	2254.0	2275.2	2340.4	2421.3	2505.3	2493.8	2485.4	2370.0	2187.0	1977.4
12.5°	1973.8	1984.7	2007.0	2100.0	2237.1	2428.0	2546.4	2554.8	2498.6	2301.1	2034.2
15°	1853.0	1855.4	1873.5	1929.7	2031.8	2267.3	2524.0	2547.6	2606.1	2415.9	2095.8
17.5°	1850.0	1853.0	1860.8	1885.6	1952.0	2141.1	2452.1	2493.2	2687.1	2539.1	2169.5
20°	1963.5	1961.7	1956.3	1943.0	1972.0	2099.4	2385.7	2431.0	2731.2	2659.3	2243.8
22.5°	2169.5	2167.1	2142.9	2087.9	2064.4	2137.5	2353.1	2394.2	2757.7	2766.2	2304.8
25°	2406.8	2423.7	2378.4	2295.1	2237.1	2234.7	2382.1	2411.1	2780.7	2861.0	2346.4
27.5°	2667.1	2672.6	2633.9	2540.3	2456.4	2390.5	2466.0	2487.8	2806.1	2945.6	2370.0
30°	2952.8	2951.0	2906.9	2798.2	2696.1	2601.3	2607.4	2615.8	2865.3	3042.2	2396.0
32.5°	3309.8	3317.6	3239.1	3091.1	2968.5	2837.5	2792.2	2793.4	2972.2	3166.6	2435.2
35°	3794.8	3775.4	3671.6	3460.8	3251.8	3110.5	3033.2	3026.5	3137.0	3333.9	2503.5
37.5°	4256.8	4258.6	4149.9	3918.0	3654.0	3431.2	3321.9	3303.7	3369.0	3565.9	2617.0
40°	4577.5	4583.6	4538.3	4416.9	4137.2	3821.9	3661.3	3642.6	3669.7	3859.4	2765.6
42.5°	4747.2	4764.1	4776.8	4805.2	4593.2	4310.0	4062.9	4061.1	4032.7	4194.0	2937.7
45°	4753.9	4779.2	4856.6	5050.4	5074.6	4866.8	4598.1	4557.6	4448.3	4552.1	3091.7
47.5°	4491.1	4549.7	4714.0	5098.1	5351.8	5420.7	5154.3	5129.5	4822.7	4835.4	3207.1
50°	3878.7	3939.7	4242.3	4853.5	5421.9	5860.4	5764.9	5713.6	5135.6	5022.6	3262.7
52.5°	3250.6	3306.2	3511.5	4271.3	5131.4	5998.7	6279.5	6218.5	5416.4	5087.9	3239.7
55°	2261.9	2336.2	2536.7	3192.6	4462.2	5729.3	6449.8	6437.1	5667.1	5046.8	3204.1
57.5°	1108.9	1182.6	1382.5	1968.3	3305.5	5002.1	6189.5	6256.6	5816.9	5002.7	3175.1
60°	463.2	493.4	562.3	863.7	1849.4	3780.3	5601.9	5694.9	5725.1	4942.9	3172.1
62.5°	268.8	273.6	280.8	358.2	719.3	2167.1	4647.0	4779.2	5242.5	4863.8	3124.4
65°	202.9	204.7	201.7	219.8	297.2	822.0	3357.5	3537.5	4375.8	4554.6	2935.9
67.5°	166.7	166.7	158.8	162.5	186.6	308.0	1853.6	2104.8	3237.9	3743.4	2424.3
70°	132.9	135.9	132.3	127.4	133.5	170.3	659.5	817.8	1885.6	2210.5	1413.9
72.5°	100.9	100.9	106.9	103.3	99.1	106.9	230.1	258.5	756.8	921.7	510.4
75°	77.9	80.3	84.6	80.9	74.9	63.4	110.5	117.2	228.3	214.4	114.2
77.5°	39.9	40.5	53.8	59.2	55.6	38.7	48.3	53.1	74.3	66.4	42.3
80°	24.2	25.4	30.2	46.5	36.8	20.5	19.9	21.1	35.0	30.2	17.5
82.5°	10.3	10.9	16.9	16.9	15.1	7.9	7.9	7.9	16.9	15.7	7.2
85°	0.0	0.0	3.0	2.4	2.4	3.0	3.0	3.0	4.2	6.0	3.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	1.8
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°	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2	1825.2
2.5°	1825.2	1786.6	1734.6	1687.5	1624.1	1588.5	1538.9	1498.5	1464.0	1453.2	1448.3
5°	1825.8	1759.4	1648.2	1537.1	1400.6	1293.1	1182.6	1095.0	1023.1	1000.2	994.1
7.5°	1837.9	1740.0	1560.1	1358.3	1130.0	941.6	773.1	622.1	552.0	528.5	523.6
10°	1854.2	1723.7	1458.0	1143.9	816.0	573.8	406.5	309.8	263.9	238.6	242.2
12.5°	1875.3	1710.5	1345.0	912.0	540.0	315.3	223.5	187.2	177.6	172.7	170.3
15°	1903.7	1694.7	1204.9	681.9	331.0	202.9	172.1	162.5	158.8	156.4	155.8
17.5°	1932.7	1676.6	1062.4	479.6	219.8	168.5	154.6	149.8	147.4	145.6	145.0
20°	1963.5	1645.8	895.1	330.4	173.3	151.6	142.5	137.1	134.1	131.1	130.5
22.5°	1976.8	1596.3	735.0	231.3	154.0	139.5	128.0	121.4	117.8	115.4	115.4
25°	1964.1	1516.0	569.5	175.8	140.1	126.2	114.8	107.5	104.5	102.1	102.1
27.5°	1930.3	1412.7	415.5	145.6	125.0	112.3	101.5	94.8	92.4	91.2	91.2
30°	1892.9	1282.2	292.9	125.0	108.1	97.8	88.8	84.6	84.0	82.7	82.7
32.5°	1860.8	1160.2	201.7	109.9	95.4	85.2	79.1	77.3	77.9	76.7	77.3
35°	1843.3	1040.6	149.8	97.8	85.2	75.5	72.5	72.5	72.5	71.9	71.9
37.5°	1850.6	922.9	122.0	89.4	76.1	68.9	65.8	67.0	68.2	68.2	68.2
40°	1886.8	818.4	108.1	81.5	68.2	62.8	60.4	62.2	64.0	65.2	65.2
42.5°	1932.7	733.8	97.8	74.9	62.8	56.8	55.6	57.4	59.2	60.4	60.4
45°	1961.7	648.7	87.6	66.4	57.4	50.1	50.1	52.5	51.9	52.5	52.5
47.5°	1975.0	581.0	77.3	57.4	48.9	43.5	44.1	45.3	44.1	45.3	45.3
50°	1942.4	512.8	68.2	47.7	40.5	38.1	39.3	38.7	38.7	41.1	41.1
52.5°	1882.6	462.0	60.4	40.5	34.4	33.8	35.0	32.6	33.2	33.2	32.6
55°	1838.5	433.0	53.8	35.0	29.6	30.2	29.6	25.4	23.0	20.5	19.9
57.5°	1816.8	421.6	48.9	31.4	26.6	26.6	24.2	17.5	13.3	10.3	9.1
60°	1811.9	407.7	44.1	27.2	23.6	22.3	17.5	10.3	6.6	4.8	4.2
62.5°	1766.0	373.9	39.9	21.7	20.5	18.1	10.9	6.0	3.6	2.4	1.8
65°	1615.6	307.4	35.6	16.9	15.7	13.3	6.6	3.6	1.8	0.6	0.0
67.5°	1285.3	218.0	31.4	12.7	10.9	8.5	4.2	2.4	0.6	0.0	0.0
70°	741.1	117.8	26.0	9.1	7.2	5.4	3.0	1.2	0.0	0.0	0.0
72.5°	247.6	55.0	19.9	6.0	5.4	4.2	1.8	0.6	0.0	0.0	0.0
75°	54.4	32.6	13.3	4.2	3.6	3.0	1.2	0.0	0.0	0.0	0.0
77.5°	20.5	23.0	6.6	3.0	2.4	1.8	0.6	0.0	0.0	0.0	0.0
80°	7.9	15.1	3.0	1.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	4.2	6.0	1.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	3.0	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	0.6	0.6	0.0	0.0	0.0	0.0	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)