

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: P631289

Luminaire Tested: GWS-SA1F-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631289  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-735-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (16) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

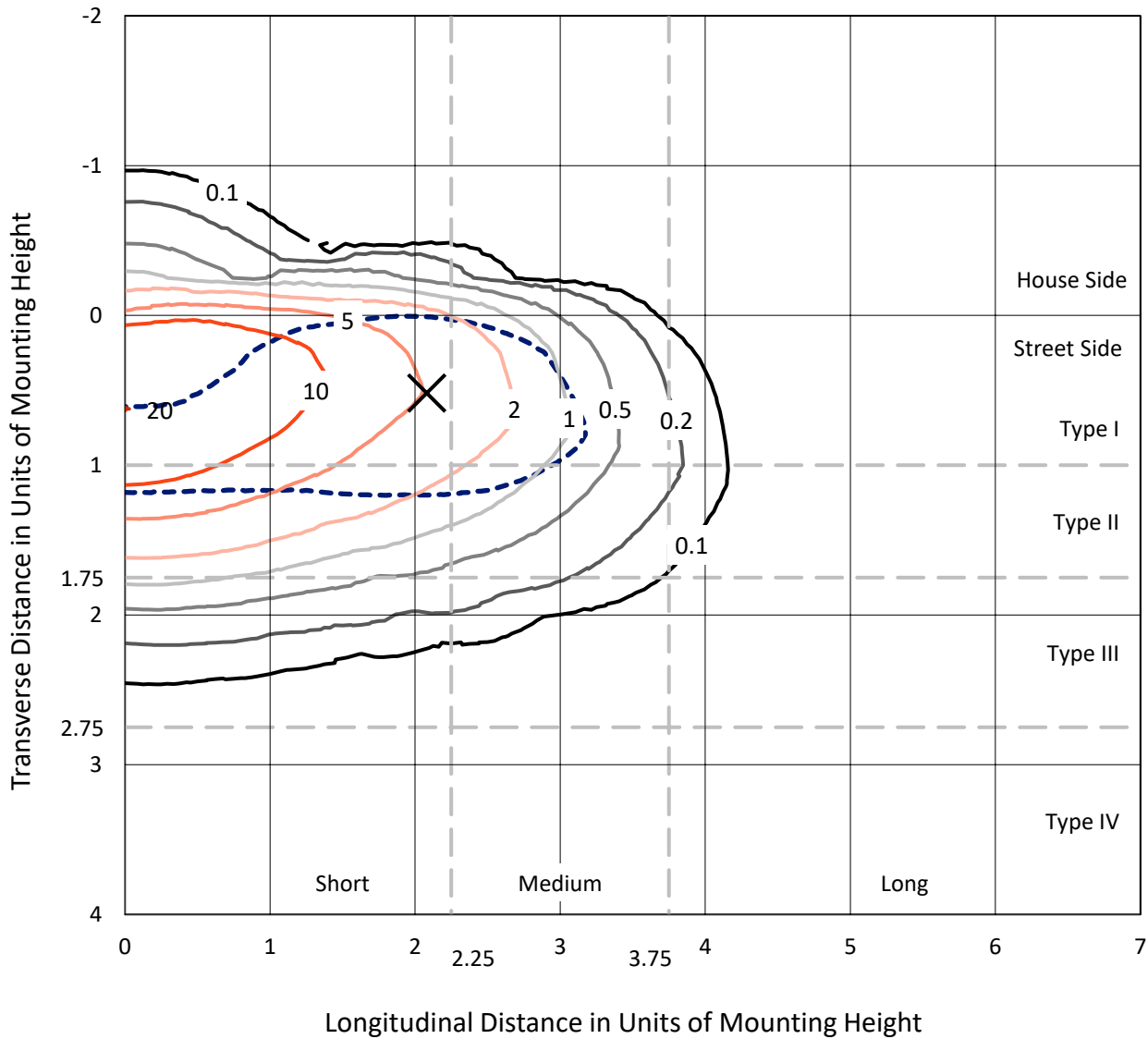
Lumens per Lamp: N/A  
Luminaire Lumens: 6701.4 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

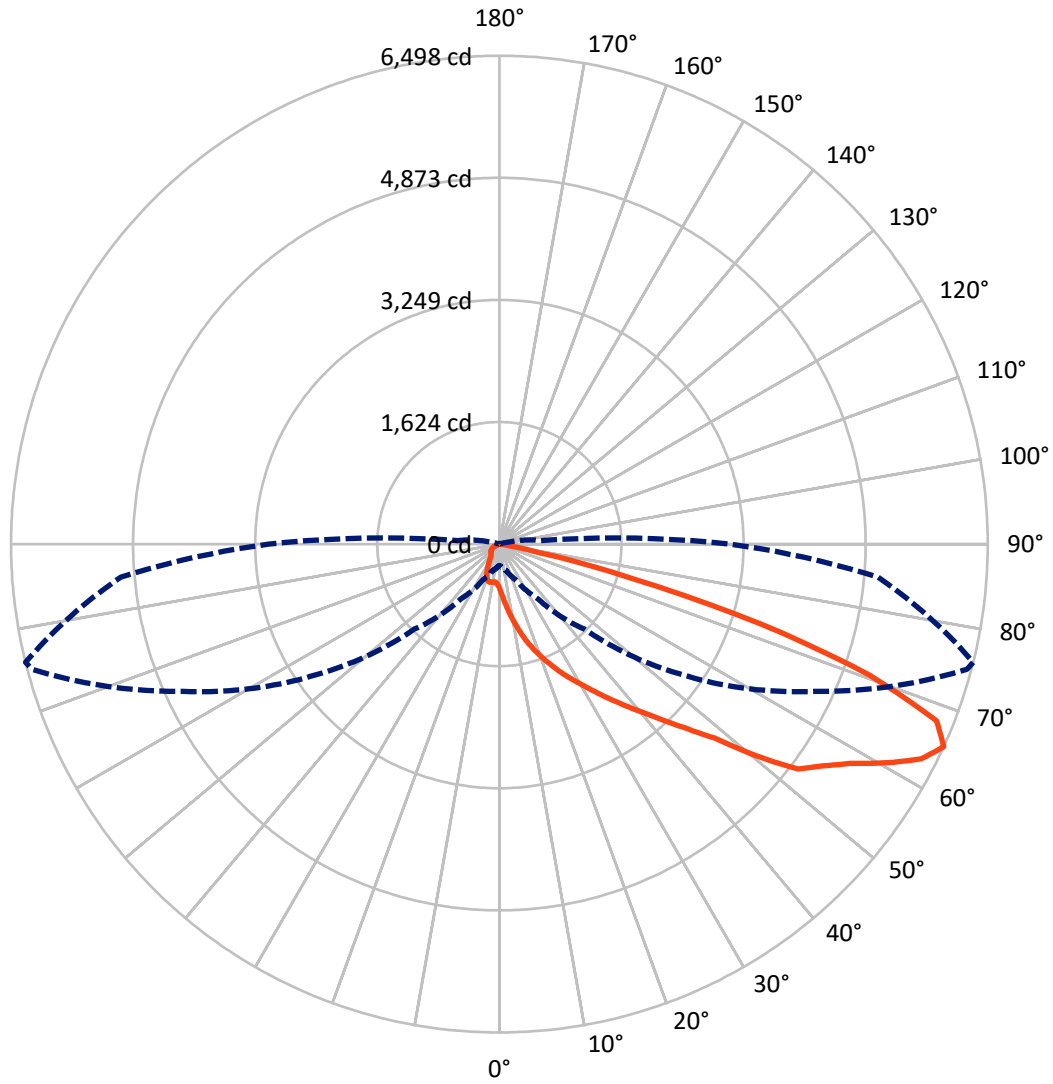
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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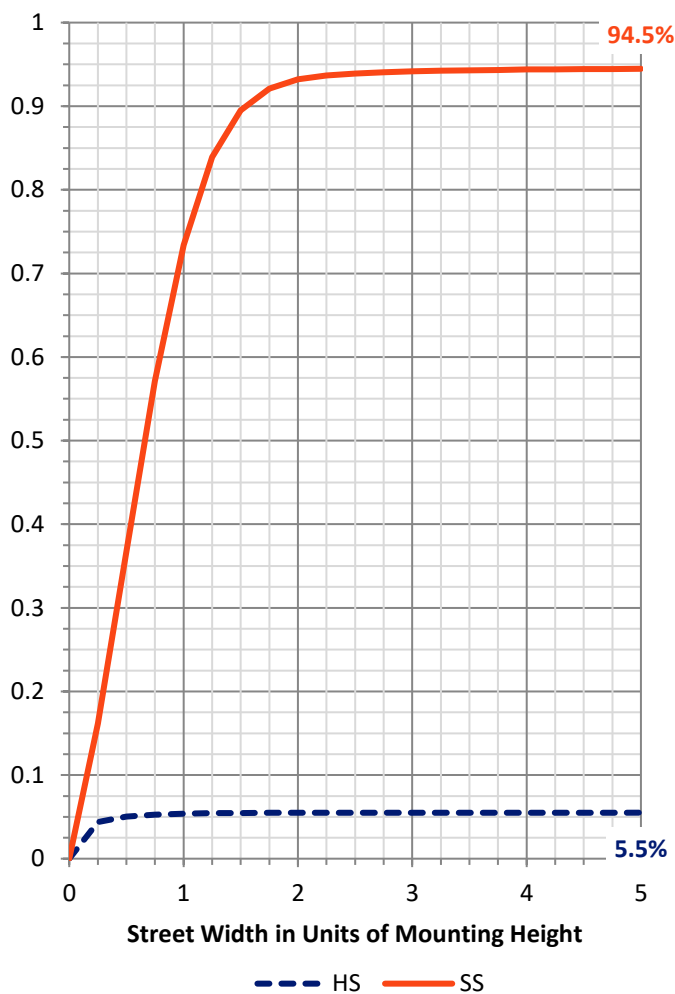
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	370.6	0.0	370.6
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	6330.9	0.0	6330.9
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	6701.4	0.0	6701.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	1.1
10°-20°	273.9	4.1
20°-30°	558.8	8.3
30°-40°	993.8	14.8
40°-50°	1469.1	21.9
50°-60°	1682.0	25.1
60°-70°	1283.3	19.1
70°-80°	359.5	5.4
80°-90°	9.1	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°	6701.4	100.0
0°-180°	6701.4	100.0

**Coefficient of Utilization**

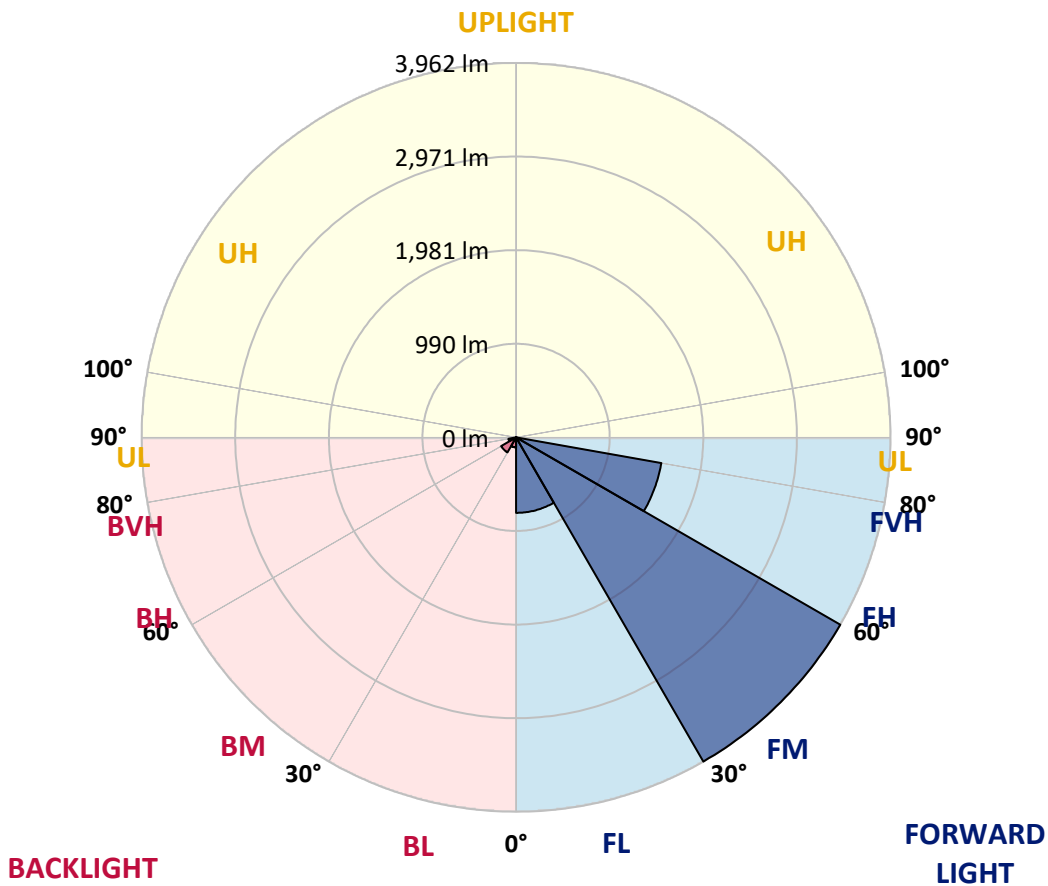


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	799.1	11.9			
FM (30°-60°)	3962.0	59.1			
FH (60°-80°)	1561.3	23.3			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	105.7	1.6	B0/110		
BM (30°-60°)	182.8	2.7	B0/220		
BH (60°-80°)	81.5	1.2	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3
2.5°	914.4	928.1	917.4	899.5	865.0	831.6	788.7	729.7	682.7	676.7	632.6
5°	1234.9	1233.7	1210.5	1187.2	1150.9	1093.7	1007.3	897.7	792.3	783.3	684.5
7.5°	1425.5	1427.3	1414.2	1396.3	1360.6	1301.6	1211.7	1079.4	925.1	907.3	755.3
10°	1585.8	1585.2	1575.6	1567.3	1535.1	1495.8	1399.3	1254.0	1068.1	1040.1	834.6
12.5°	1706.1	1710.3	1715.0	1723.4	1709.7	1670.9	1579.8	1421.3	1212.8	1181.9	925.1
15°	1801.4	1802.6	1820.5	1852.6	1863.9	1843.7	1760.9	1583.4	1355.8	1329.0	1029.4
17.5°	1830.0	1832.4	1862.8	1921.7	1981.3	1992.6	1930.1	1746.6	1496.4	1467.8	1130.6
20°	1890.2	1895.5	1918.2	1970.0	2045.0	2105.8	2081.4	1911.6	1637.0	1599.5	1234.3
22.5°	2079.6	2082.6	2074.8	2081.4	2120.1	2190.4	2205.3	2071.3	1781.1	1741.2	1346.3
25°	2405.4	2406.6	2352.4	2301.2	2272.0	2285.1	2317.9	2218.4	1924.1	1884.8	1450.5
27.5°	2743.8	2748.0	2683.0	2596.1	2491.8	2432.2	2422.7	2353.0	2068.3	2024.8	1553.6
30°	3062.5	3062.5	2994.0	2888.0	2748.6	2632.4	2563.9	2488.8	2222.6	2174.9	1659.0
32.5°	3349.0	3346.6	3259.1	3144.1	3006.5	2879.0	2734.9	2630.6	2394.1	2341.1	1780.6
35°	3585.5	3579.6	3480.1	3369.9	3222.7	3128.0	2967.2	2783.1	2580.0	2527.0	1905.6
37.5°	3764.2	3757.7	3666.5	3549.8	3413.4	3352.0	3217.4	2966.0	2776.0	2727.7	2044.4
40°	3861.3	3848.2	3785.1	3698.1	3583.7	3530.1	3474.1	3193.0	3006.5	2946.3	2208.3
42.5°	3889.9	3874.4	3832.7	3792.2	3723.1	3680.8	3741.0	3449.1	3259.7	3207.9	2395.3
45°	3805.3	3796.4	3792.8	3822.0	3834.5	3846.4	3994.8	3732.7	3539.1	3499.7	2630.6
47.5°	3601.6	3599.2	3630.8	3752.3	3884.6	4010.3	4270.6	4082.3	3901.2	3859.0	2959.4
50°	3225.1	3249.5	3337.7	3551.0	3815.5	4103.2	4528.5	4567.2	4487.4	4425.5	3388.3
52.5°	2636.6	2683.6	2881.4	3205.5	3585.5	4077.0	4647.7	4955.6	5037.2	4972.9	3695.7
55°	2068.9	2113.0	2289.3	2700.3	3207.3	3877.4	4653.0	5089.7	5267.8	5208.2	3903.6
57.5°	1541.1	1581.6	1741.8	2135.0	2692.6	3484.9	4525.5	5164.1	5541.2	5503.1	4231.9
60°	1007.3	1047.2	1192.0	1535.7	2088.5	2913.0	4211.6	5148.6	5913.5	5910.0	4635.2
62.5°	558.8	590.3	695.2	963.2	1457.7	2255.9	3718.4	4993.2	6273.9	6296.6	4967.6
65°	285.9	306.2	369.9	529.6	882.2	1599.5	3069.6	4636.9	6440.7	6497.9	5055.1
67.5°	187.1	193.6	209.1	275.2	472.4	1006.1	2310.1	4065.7	6206.0	6272.7	4761.4
70°	151.9	157.3	166.2	183.5	243.6	534.3	1517.3	3247.2	5185.6	5230.9	3791.6
72.5°	111.4	118.5	135.8	147.1	175.7	293.1	789.3	2131.4	3561.1	3640.9	2382.8
75°	82.2	86.4	100.7	116.2	143.6	185.3	302.0	1120.5	1838.9	1792.5	1000.8
77.5°	49.4	52.4	64.3	74.5	102.5	115.6	105.4	414.0	559.4	526.0	241.9
80°	24.4	27.4	42.3	56.0	65.5	46.5	44.1	115.6	124.5	124.5	60.8
82.5°	8.3	10.7	22.6	36.9	32.2	17.9	20.8	29.8	33.4	35.1	17.9
85°	0.0	0.0	5.4	10.7	4.8	2.4	5.4	6.6	8.3	8.9	6.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.8	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°	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3	593.3
2.5°	608.8	580.8	538.5	500.4	471.2	443.8	422.9	406.3	403.3	393.8	394.9
5°	636.2	585.6	507.5	447.4	405.1	376.5	352.7	334.8	327.0	319.3	313.3
7.5°	678.5	605.2	495.6	422.4	372.9	328.8	291.9	262.1	247.8	238.9	232.9
10°	730.3	632.6	496.2	407.5	334.2	266.9	216.2	183.5	168.0	163.2	162.6
12.5°	792.3	667.2	501.0	383.0	278.2	198.4	160.2	145.4	140.6	136.4	136.4
15°	857.8	705.9	501.0	338.4	212.1	154.9	138.8	129.3	123.3	120.9	119.7
17.5°	926.9	742.2	489.1	277.0	162.6	136.4	123.3	114.4	109.6	106.0	104.8
20°	1000.8	776.8	459.3	212.1	139.4	122.1	109.6	100.7	95.9	92.3	92.3
22.5°	1075.8	809.0	411.0	163.2	123.3	108.4	96.5	88.2	83.4	79.8	79.8
25°	1145.5	830.4	349.1	134.6	111.4	96.5	85.8	77.4	72.1	69.7	68.5
27.5°	1210.5	844.1	280.6	118.5	100.1	86.4	75.1	67.3	63.1	61.4	60.2
30°	1277.8	847.7	214.5	107.8	90.5	76.2	65.5	59.6	56.0	53.6	53.6
32.5°	1343.3	843.5	163.8	98.9	82.2	67.3	58.4	53.0	50.0	48.3	47.7
35°	1410.0	824.5	132.8	91.1	73.9	59.0	51.8	47.7	45.9	43.5	43.5
37.5°	1482.7	798.8	115.6	83.4	65.5	53.0	46.5	43.5	41.1	39.3	38.7
40°	1573.2	769.1	106.0	76.8	57.8	47.7	41.7	38.7	36.9	35.1	34.6
42.5°	1680.5	739.9	101.3	69.7	51.8	42.3	37.5	34.0	32.2	29.8	29.2
45°	1832.4	733.3	95.9	62.0	46.5	38.1	32.8	29.2	26.8	25.0	24.4
47.5°	2076.6	751.8	87.0	53.6	41.1	33.4	28.0	25.0	22.0	20.3	19.1
50°	2319.1	747.0	78.0	46.5	36.3	28.6	23.8	20.8	17.9	16.1	15.5
52.5°	2451.3	724.4	69.7	41.1	31.6	24.4	20.3	16.7	14.9	13.1	12.5
55°	2571.0	715.4	61.4	35.7	26.8	21.4	16.7	13.7	12.5	10.7	10.1
57.5°	2805.8	736.3	54.2	31.0	23.2	18.5	14.3	11.3	10.1	8.3	7.7
60°	3051.2	738.7	46.5	26.8	20.3	15.5	11.3	8.9	7.7	6.0	5.4
62.5°	3179.3	678.5	38.1	22.6	16.7	13.1	9.5	7.1	6.0	3.6	3.6
65°	3072.0	548.6	32.2	18.5	13.1	10.1	7.1	5.4	3.6	1.8	0.6
67.5°	2718.8	390.2	26.8	14.9	9.5	7.1	5.4	3.6	0.6	0.0	0.0
70°	1990.8	222.8	20.8	10.7	7.1	4.8	3.6	1.8	0.0	0.0	0.0
72.5°	1223.6	119.1	15.5	7.1	5.4	3.6	3.0	1.2	0.0	0.0	0.0
75°	464.1	57.2	9.5	4.8	4.2	3.0	1.8	0.6	0.0	0.0	0.0
77.5°	125.7	28.0	5.4	3.6	3.0	1.8	1.2	0.0	0.0	0.0	0.0
80°	32.8	13.1	3.6	2.4	1.8	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	11.3	6.0	1.8	1.8	1.2	0.6	0.0	0.0	0.0	0.0	0.0
85°	4.8	2.4	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.6	0.6	0.6	0.6	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)