

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: P637034

Luminaire Tested: GWS-SA4C-722-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637034  
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-SA4C-722-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

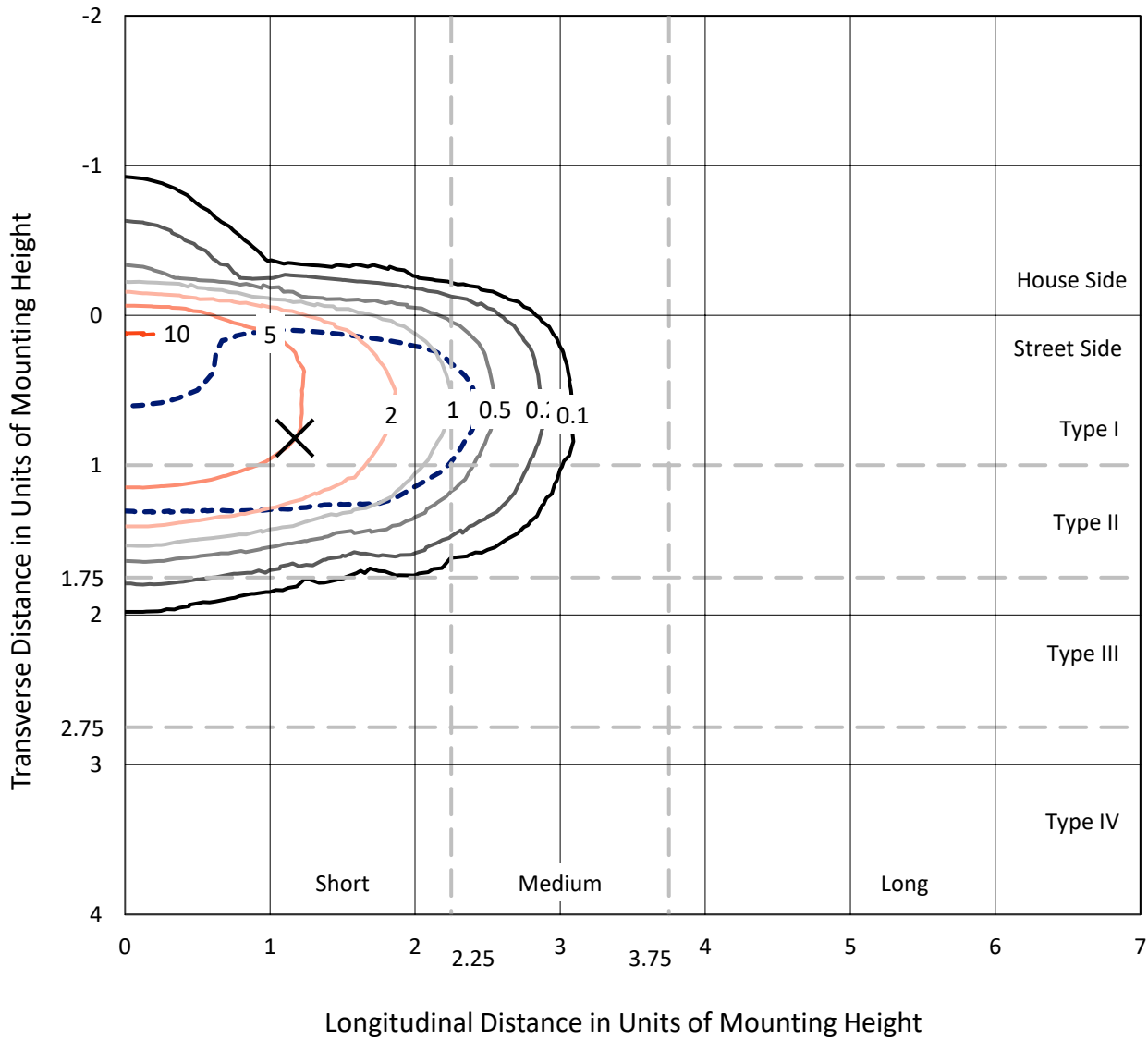
Lumens per Lamp: N/A  
Luminaire Lumens: 11990.7 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

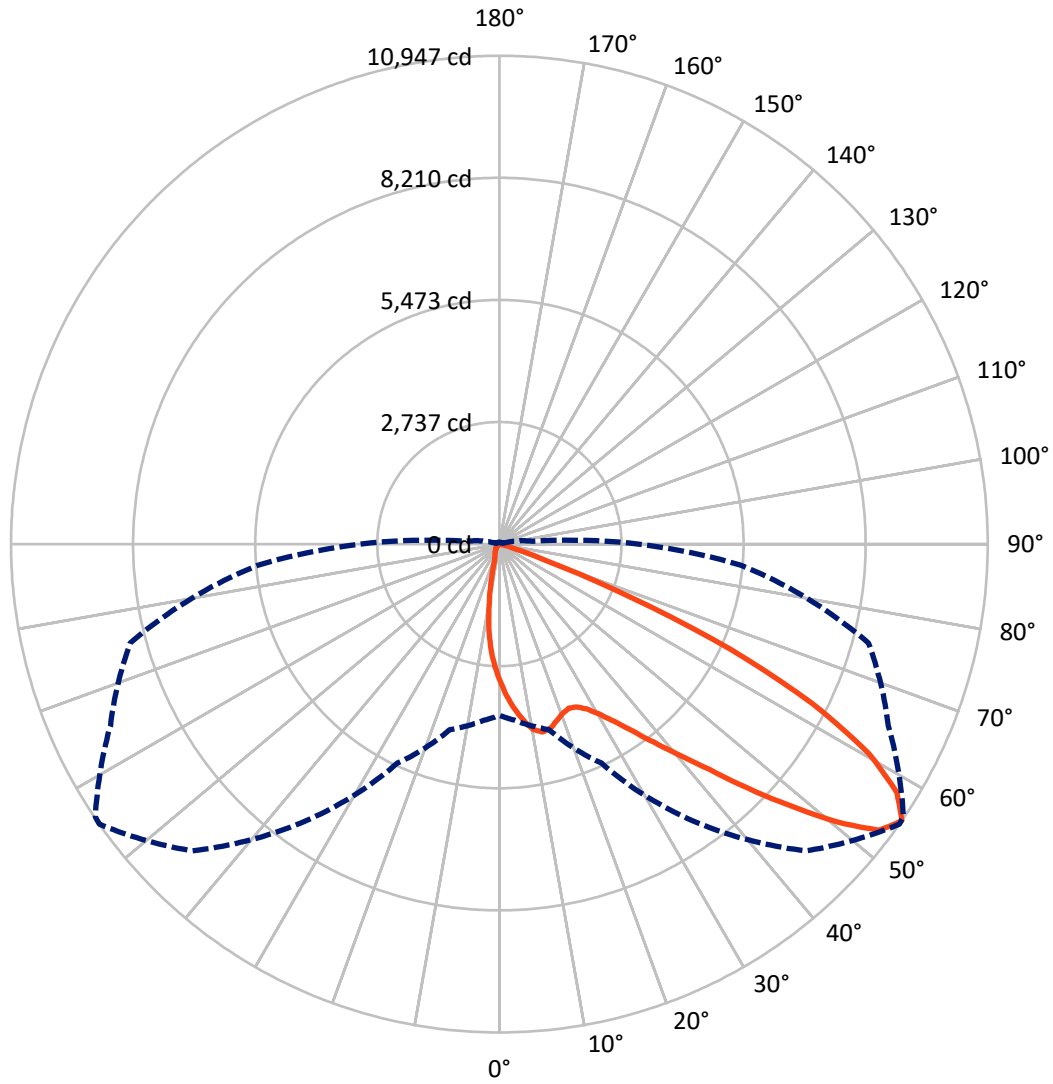
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.1 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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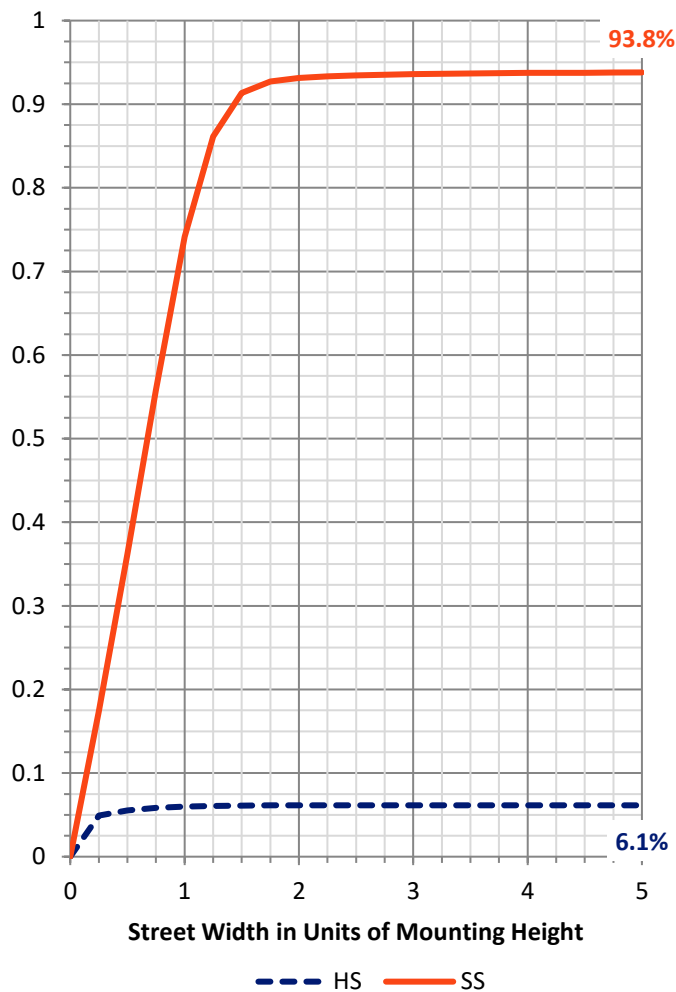
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	739.9	0.0	739.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	11250.8	0.0	11250.8
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	11990.7	0.0	11990.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.8	2.3
10°-20°	660.0	5.5
20°-30°	1099.2	9.2
30°-40°	1873.1	15.6
40°-50°	3057.5	25.5
50°-60°	3201.0	26.7
60°-70°	1614.5	13.5
70°-80°	203.9	1.7
80°-90°	7.7	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°	11990.7	100.0
0°-180°	11990.7	100.0

**Coefficient of Utilization**



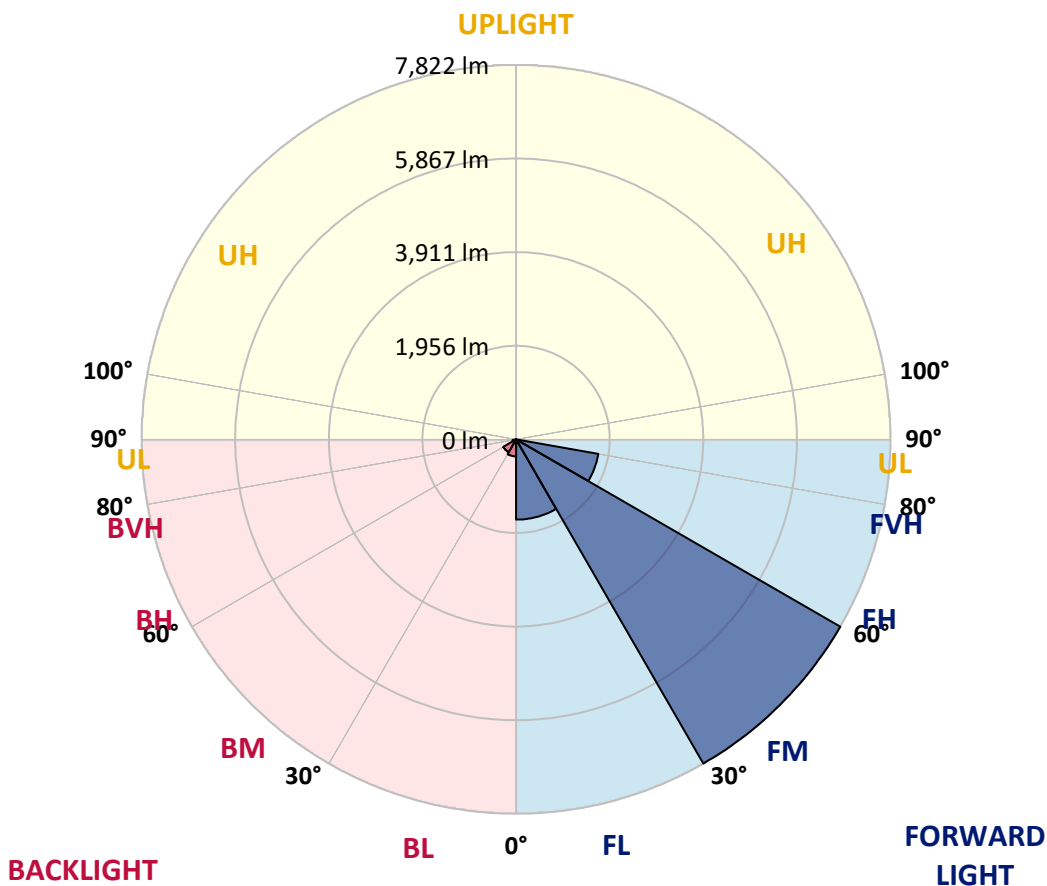
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1677.3	14.0			
FM (30°-60°)	7822.2	65.2			
FH (60°-80°)	1744.3	14.5			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	355.6	3.0	B1/500		
BM (30°-60°)	309.4	2.6	B1/1000		
BH (60°-80°)	74.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.7	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°	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7
2.5°	3611.2	3593.8	3620.5	3589.7	3537.4	3493.4	3436.0	3415.5	3323.2	3236.1	3152.0
5°	4050.0	4055.1	4046.9	4003.8	3930.0	3848.0	3732.2	3706.6	3545.6	3379.6	3200.2
7.5°	4158.6	4155.5	4173.0	4189.4	4177.1	4136.1	4010.0	3984.4	3784.5	3535.4	3274.0
10°	3823.4	3825.5	3861.4	3972.1	4109.4	4251.9	4232.4	4218.1	4022.3	3711.7	3356.0
12.5°	3349.9	3368.3	3406.2	3564.1	3796.8	4120.7	4321.6	4336.0	4240.6	3905.4	3452.4
15°	3144.8	3148.9	3179.7	3275.0	3448.3	3848.0	4283.7	4323.7	4423.1	4100.2	3556.9
17.5°	3139.7	3144.8	3158.2	3200.2	3313.0	3633.8	4161.7	4231.4	4560.4	4309.3	3682.0
20°	3332.4	3329.4	3320.1	3297.6	3346.8	3563.1	4048.9	4125.8	4635.3	4513.3	3808.1
22.5°	3682.0	3677.9	3636.9	3543.6	3503.6	3627.6	3993.6	4063.3	4680.4	4694.7	3911.6
25°	4084.8	4113.5	4036.6	3895.2	3796.8	3792.7	4042.8	4092.0	4719.3	4855.7	3982.3
27.5°	4526.6	4535.8	4470.2	4311.4	4168.9	4057.1	4185.3	4222.2	4762.4	4999.2	4022.3
30°	5011.5	5008.4	4933.6	4749.0	4575.8	4414.9	4425.1	4439.5	4862.8	5163.2	4066.4
32.5°	5617.3	5630.6	5497.3	5246.2	5038.1	4815.7	4738.8	4740.8	5044.3	5374.3	4133.0
35°	6440.4	6407.6	6231.3	5873.5	5518.9	5279.0	5147.8	5136.5	5324.1	5658.3	4248.8
37.5°	7224.5	7227.6	7043.1	6649.5	6201.5	5823.3	5637.8	5607.0	5717.7	6051.9	4441.5
40°	7768.8	7779.1	7702.2	7496.2	7021.6	6486.5	6213.8	6182.1	6228.2	6550.1	4693.7
42.5°	8056.9	8085.6	8107.1	8155.3	7795.5	7314.7	6895.5	6892.4	6844.2	7117.9	4985.8
45°	8068.2	8111.2	8242.4	8571.5	8612.5	8259.8	7803.7	7735.0	7549.5	7725.8	5247.2
47.5°	7622.3	7721.7	8000.5	8652.4	9082.9	9199.8	8747.8	8705.7	8185.0	8206.5	5443.0
50°	6582.9	6686.4	7199.9	8237.3	9201.9	9946.0	9784.1	9697.0	8716.0	8524.3	5537.3
52.5°	5516.8	5611.1	5959.6	7249.1	8708.8	10180.8	10657.4	10553.9	9192.6	8635.0	5498.4
55°	3838.8	3964.9	4305.2	5418.4	7573.1	9723.6	10946.5	10925.0	9618.0	8565.3	5437.9
57.5°	1882.0	2007.0	2346.3	3340.6	5610.1	8489.4	10504.7	10618.5	9872.2	8490.5	5388.7
60°	786.2	837.5	954.3	1465.8	3138.7	6415.8	9507.3	9665.2	9716.4	8389.0	5383.6
62.5°	456.1	464.3	476.6	607.9	1220.8	3677.9	7886.7	8111.2	8897.4	8254.7	5302.6
65°	344.4	347.5	342.4	373.1	504.3	1395.1	5698.2	6003.7	7426.5	7729.9	4982.8
67.5°	282.9	282.9	269.6	275.7	316.7	522.8	3145.9	3572.3	5495.3	6353.2	4114.5
70°	225.5	230.6	224.5	216.3	226.5	289.1	1119.4	1387.9	3200.2	3751.7	2399.6
72.5°	171.2	171.2	181.4	175.3	168.1	181.4	390.5	438.7	1284.4	1564.2	866.2
75°	132.2	136.3	143.5	137.4	127.1	107.6	187.6	198.9	387.5	363.9	193.7
77.5°	67.7	68.7	91.2	100.5	94.3	65.6	82.0	90.2	126.1	112.8	71.8
80°	41.0	43.1	51.3	78.9	62.5	34.9	33.8	35.9	59.5	51.3	29.7
82.5°	17.4	18.5	28.7	28.7	25.6	13.3	13.3	13.3	28.7	26.7	12.3
85°	0.0	0.0	5.1	4.1	4.1	5.1	5.1	5.1	7.2	10.3	6.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.1	3.1
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°	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7	3097.7
2.5°	3097.7	3032.1	2943.9	2864.0	2756.4	2695.9	2611.8	2543.1	2484.7	2466.3	2458.1
5°	3098.7	2986.0	2797.4	2608.7	2377.1	2194.6	2007.0	1858.4	1736.4	1697.5	1687.2
7.5°	3119.2	2953.2	2647.7	2305.3	1917.9	1598.0	1312.1	1055.8	936.9	896.9	888.7
10°	3146.9	2925.5	2474.5	1941.4	1384.8	973.8	689.9	525.8	447.9	404.9	411.0
12.5°	3182.8	2902.9	2282.8	1547.8	916.4	535.1	379.3	317.8	301.4	293.2	289.1
15°	3231.0	2876.3	2045.0	1157.3	561.7	344.4	292.1	275.7	269.6	265.5	264.5
17.5°	3280.2	2845.5	1803.1	813.9	373.1	286.0	262.4	254.2	250.1	247.0	246.0
20°	3332.4	2793.3	1519.1	560.7	294.2	257.3	241.9	232.7	227.6	222.4	221.4
22.5°	3355.0	2709.2	1247.5	392.6	261.4	236.8	217.3	206.0	199.9	195.8	195.8
25°	3333.5	2572.9	966.6	298.3	237.8	214.2	194.8	182.5	177.3	173.2	173.2
27.5°	3276.1	2397.6	705.2	247.0	212.2	190.7	172.2	160.9	156.8	154.8	154.8
30°	3212.5	2176.2	497.1	212.2	183.5	166.1	150.7	143.5	142.5	140.4	140.4
32.5°	3158.2	1969.1	342.4	186.6	162.0	144.5	134.3	131.2	132.2	130.2	131.2
35°	3128.4	1766.2	254.2	166.1	144.5	128.1	123.0	123.0	123.0	122.0	122.0
37.5°	3140.7	1566.3	207.1	151.7	129.2	116.9	111.7	113.8	115.8	115.8	115.8
40°	3202.2	1388.9	183.5	138.4	115.8	106.6	102.5	105.6	108.7	110.7	110.7
42.5°	3280.2	1245.4	166.1	127.1	106.6	96.4	94.3	97.4	100.5	102.5	102.5
45°	3329.4	1100.9	148.6	112.8	97.4	85.1	85.1	89.2	88.2	89.2	89.2
47.5°	3351.9	986.1	131.2	97.4	83.0	73.8	74.8	76.9	74.8	76.9	76.9
50°	3296.6	870.3	115.8	81.0	68.7	64.6	66.6	65.6	65.6	69.7	69.7
52.5°	3195.1	784.2	102.5	68.7	58.4	57.4	59.5	55.4	56.4	56.4	55.4
55°	3120.2	735.0	91.2	59.5	50.2	51.3	50.2	43.1	39.0	34.9	33.8
57.5°	3083.3	715.5	83.0	53.3	45.1	45.1	41.0	29.7	22.6	17.4	15.4
60°	3075.1	691.9	74.8	46.1	40.0	37.9	29.7	17.4	11.3	8.2	7.2
62.5°	2997.2	634.5	67.7	36.9	34.9	30.8	18.5	10.3	6.2	4.1	3.1
65°	2742.0	521.7	60.5	28.7	26.7	22.6	11.3	6.2	3.1	1.0	0.0
67.5°	2181.3	370.0	53.3	21.5	18.5	14.4	7.2	4.1	1.0	0.0	0.0
70°	1257.7	199.9	44.1	15.4	12.3	9.2	5.1	2.1	0.0	0.0	0.0
72.5°	420.3	93.3	33.8	10.3	9.2	7.2	3.1	1.0	0.0	0.0	0.0
75°	92.3	55.4	22.6	7.2	6.2	5.1	2.1	0.0	0.0	0.0	0.0
77.5°	34.9	39.0	11.3	5.1	4.1	3.1	1.0	0.0	0.0	0.0	0.0
80°	13.3	25.6	5.1	3.1	3.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.2	10.3	3.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	5.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	1.0	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)