

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: P635164

Luminaire Tested: GWS-SA3D-730-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635164  
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-SA3D-730-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

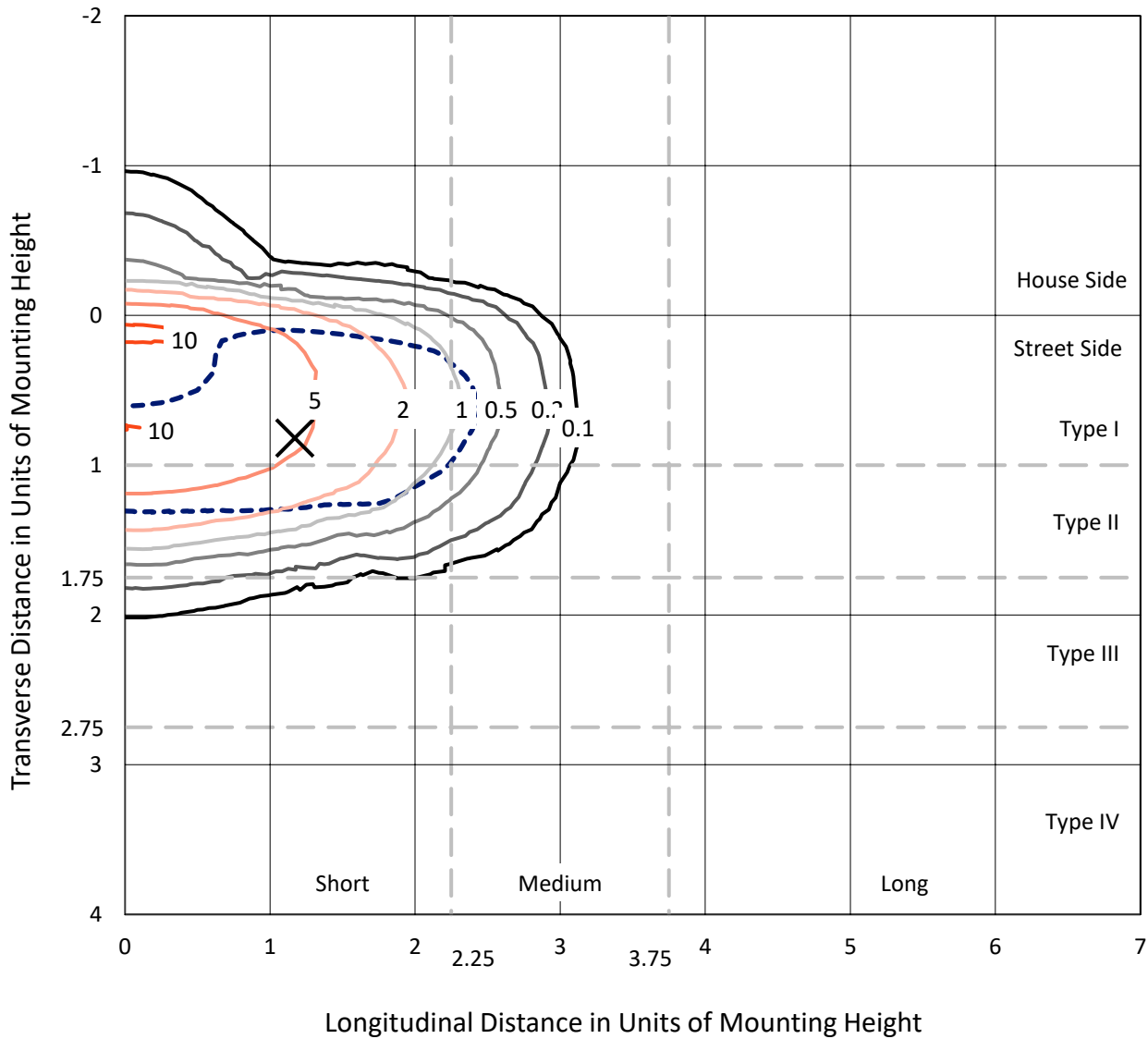
Lumens per Lamp: N/A  
Luminaire Lumens: 13438.6 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

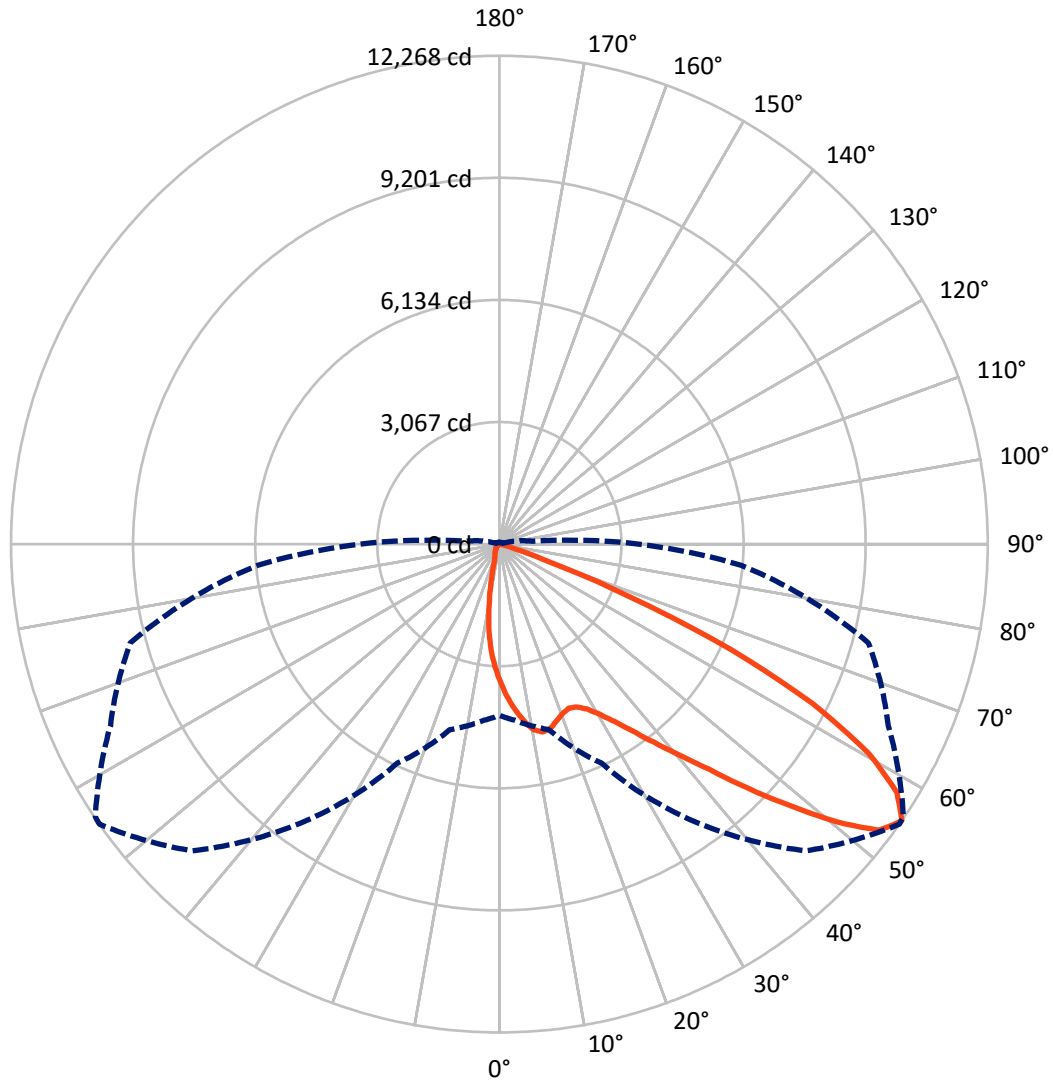
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.4 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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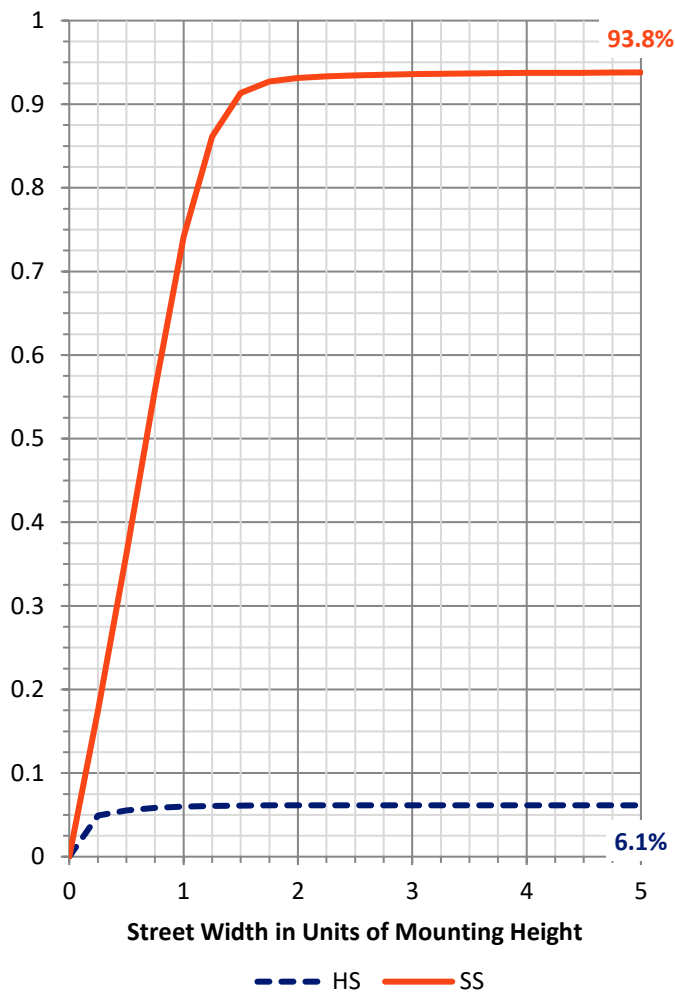
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	829.2	0.0	829.2
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	12609.4	0.0	12609.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	13438.6	0.0	13438.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.8	2.3
10°-20°	739.7	5.5
20°-30°	1231.9	9.2
30°-40°	2099.2	15.6
40°-50°	3426.7	25.5
50°-60°	3587.6	26.7
60°-70°	1809.5	13.5
70°-80°	228.6	1.7
80°-90°	8.7	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°	13438.6	100.0
0°-180°	13438.6	100.0

**Coefficient of Utilization**



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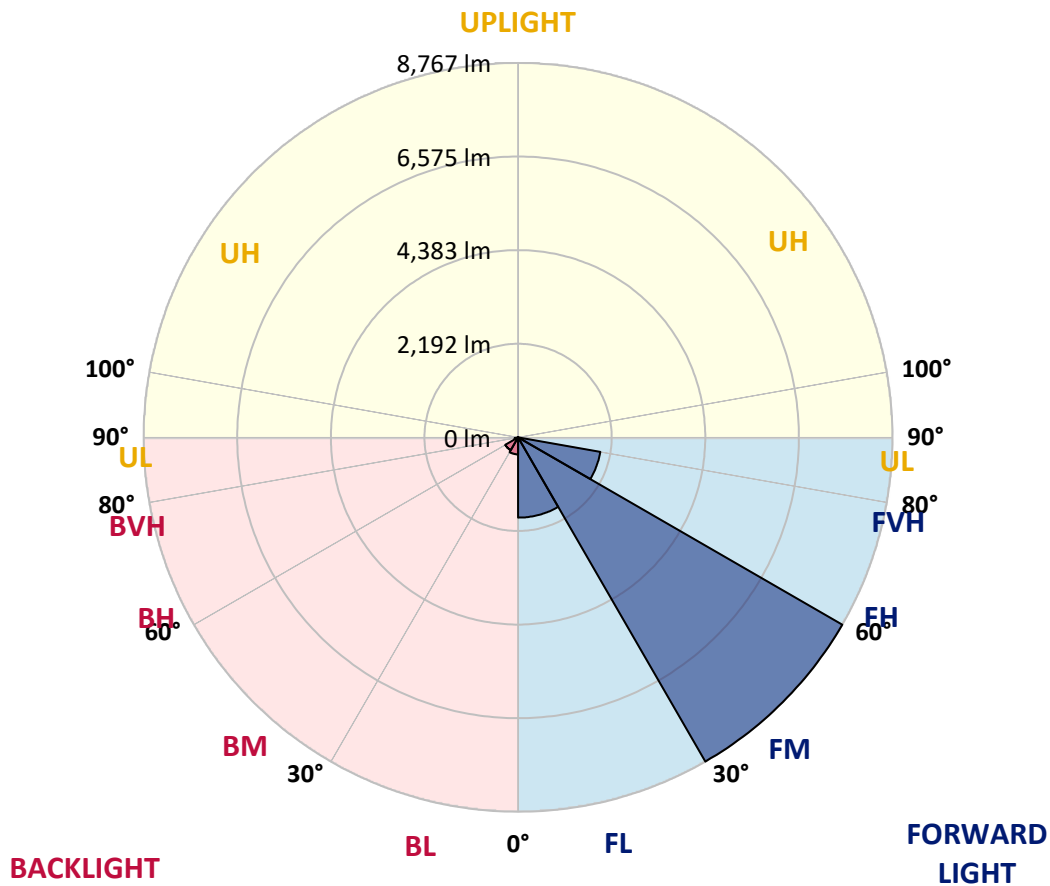
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.9	14.0			
FM (30°-60°)	8766.7	65.2			
FH (60°-80°)	1954.9	14.5			G2/5000
FVH (80°-90°)	7.9	0.1			G0/10
BL (0°-30°)	398.6	3.0	B1/500		
BM (30°-60°)	346.7	2.6	B1/1000		
BH (60°-80°)	83.2	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7
2.5°	4047.3	4027.8	4057.6	4023.2	3964.6	3915.2	3850.9	3827.9	3724.5	3626.8	3532.6
5°	4539.0	4544.7	4535.6	4487.3	4404.6	4312.7	4182.9	4154.1	3973.8	3787.7	3586.6
7.5°	4660.8	4657.3	4676.9	4695.2	4681.5	4635.5	4494.2	4465.5	4241.5	3962.3	3669.3
10°	4285.1	4287.4	4327.6	4451.7	4605.6	4765.3	4743.5	4727.4	4508.0	4159.9	3761.3
12.5°	3754.4	3775.0	3817.5	3994.5	4255.2	4618.3	4843.4	4859.5	4752.7	4377.0	3869.2
15°	3524.6	3529.2	3563.7	3670.5	3864.6	4312.7	4800.9	4845.7	4957.2	4595.3	3986.4
17.5°	3518.8	3524.6	3539.5	3586.6	3713.0	4072.6	4664.2	4742.3	5111.1	4829.7	4126.6
20°	3734.8	3731.4	3721.0	3695.8	3750.9	3993.3	4537.9	4624.0	5195.0	5058.3	4267.9
22.5°	4126.6	4122.0	4076.0	3971.5	3926.7	4065.7	4475.8	4553.9	5245.5	5261.6	4383.9
25°	4578.1	4610.2	4524.1	4365.5	4255.2	4250.7	4531.0	4586.1	5289.2	5442.0	4463.2
27.5°	5073.2	5083.5	5010.0	4832.0	4672.3	4547.0	4690.6	4732.0	5337.4	5602.8	4508.0
30°	5616.6	5613.2	5529.3	5322.5	5128.4	4948.0	4959.5	4975.6	5450.0	5786.6	4557.4
32.5°	6295.6	6310.5	6161.1	5879.7	5646.5	5397.2	5311.0	5313.3	5653.4	6023.3	4632.1
35°	7218.1	7181.3	6983.7	6582.8	6185.3	5916.4	5769.4	5756.8	5967.0	6341.5	4761.9
37.5°	8096.9	8100.4	7893.6	7452.4	6950.4	6526.5	6318.5	6284.1	6408.1	6782.7	4977.9
40°	8706.9	8718.4	8632.3	8401.4	7869.4	7269.8	6964.2	6928.6	6980.3	7341.0	5260.5
42.5°	9029.8	9061.9	9086.1	9140.0	8736.8	8198.0	7728.1	7724.7	7670.7	7977.4	5587.9
45°	9042.4	9090.6	9237.7	9606.5	9652.4	9257.2	8746.0	8669.0	8461.1	8658.7	5880.8
47.5°	8542.7	8654.1	8966.6	9697.2	10179.7	10310.7	9804.1	9757.0	9173.4	9197.5	6100.3
50°	7377.7	7493.8	8069.3	9232.0	10313.0	11147.0	10965.5	10867.9	9768.5	9553.6	6205.9
52.5°	6183.0	6288.7	6679.3	8124.5	9760.4	11410.1	11944.3	11828.3	10302.7	9677.7	6162.3
55°	4302.3	4443.7	4825.1	6072.7	8487.5	10897.7	12268.3	12244.2	10779.4	9599.6	6094.5
57.5°	2109.2	2249.4	2629.7	3744.0	6287.5	9514.6	11773.2	11900.7	11064.3	9515.7	6039.4
60°	881.1	938.6	1069.6	1642.8	3517.7	7190.5	10655.3	10832.3	10889.7	9402.0	6033.6
62.5°	511.2	520.4	534.2	681.3	1368.2	4122.0	8839.1	9090.6	9971.8	9251.5	5942.9
65°	386.0	389.5	383.7	418.2	565.2	1563.5	6386.3	6728.7	8323.2	8663.3	5584.4
67.5°	317.1	317.1	302.1	309.0	355.0	585.9	3525.7	4003.7	6158.8	7120.4	4611.4
70°	252.7	258.5	251.6	242.4	253.9	324.0	1254.5	1555.5	3586.6	4204.7	2689.4
72.5°	191.9	191.9	203.3	196.4	188.4	203.3	437.7	491.7	1439.5	1753.1	970.8
75°	148.2	152.8	160.8	153.9	142.5	120.6	210.2	222.9	434.3	407.8	217.1
77.5°	75.8	77.0	102.2	112.6	105.7	73.5	91.9	101.1	141.3	126.4	80.4
80°	46.0	48.3	57.4	88.5	70.1	39.1	37.9	40.2	66.6	57.4	33.3
82.5°	19.5	20.7	32.2	32.2	28.7	14.9	14.9	14.9	32.2	29.9	13.8
85°	0.0	0.0	5.7	4.6	4.6	5.7	5.7	5.7	8.0	11.5	6.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.4
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°	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7	3471.7
2.5°	3471.7	3398.2	3299.4	3209.8	3089.2	3021.4	2927.2	2850.2	2784.8	2764.1	2754.9
5°	3472.9	3346.5	3135.1	2923.8	2664.1	2459.6	2249.4	2082.8	1946.1	1902.5	1891.0
7.5°	3495.9	3309.8	2967.4	2583.7	2149.5	1791.0	1470.5	1183.3	1050.0	1005.2	996.0
10°	3526.9	3278.7	2773.3	2175.9	1552.1	1091.4	773.2	589.3	502.0	453.8	460.7
12.5°	3567.1	3253.5	2558.4	1734.7	1027.0	599.7	425.1	356.1	337.8	328.6	324.0
15°	3621.1	3223.6	2291.9	1297.0	629.6	386.0	327.4	309.0	302.1	297.5	296.4
17.5°	3676.2	3189.1	2020.8	912.2	418.2	320.5	294.1	284.9	280.3	276.9	275.7
20°	3734.8	3130.5	1702.6	628.4	329.7	288.4	271.1	260.8	255.0	249.3	248.1
22.5°	3760.1	3036.3	1398.1	440.0	293.0	265.4	243.6	230.9	224.0	219.4	219.4
25°	3736.0	2883.5	1083.3	334.3	266.5	240.1	218.3	204.5	198.7	194.2	194.2
27.5°	3671.6	2687.1	790.4	276.9	237.8	213.7	193.0	180.4	175.8	173.5	173.5
30°	3600.4	2439.0	557.2	237.8	205.6	186.1	168.9	160.8	159.7	157.4	157.4
32.5°	3539.5	2206.9	383.7	209.1	181.5	162.0	150.5	147.0	148.2	145.9	147.0
35°	3506.2	1979.4	284.9	186.1	162.0	143.6	137.9	137.9	137.9	136.7	136.7
37.5°	3520.0	1755.4	232.1	170.0	144.8	131.0	125.2	127.5	129.8	129.8	129.8
40°	3588.9	1556.7	205.6	155.1	129.8	119.5	114.9	118.3	121.8	124.1	124.1
42.5°	3676.2	1395.8	186.1	142.5	119.5	108.0	105.7	109.1	112.6	114.9	114.9
45°	3731.4	1233.8	166.6	126.4	109.1	95.4	95.4	99.9	98.8	99.9	99.9
47.5°	3756.7	1105.2	147.0	109.1	93.1	82.7	83.9	86.2	83.9	86.2	86.2
50°	3694.6	975.4	129.8	90.8	77.0	72.4	74.7	73.5	73.5	78.1	78.1
52.5°	3580.9	878.9	114.9	77.0	65.5	64.3	66.6	62.0	63.2	63.2	62.0
55°	3497.0	823.7	102.2	66.6	56.3	57.4	56.3	48.3	43.7	39.1	37.9
57.5°	3455.7	801.9	93.1	59.7	50.5	50.5	46.0	33.3	25.3	19.5	17.2
60°	3446.5	775.5	83.9	51.7	44.8	42.5	33.3	19.5	12.6	9.2	8.0
62.5°	3359.2	711.1	75.8	41.4	39.1	34.5	20.7	11.5	6.9	4.6	3.4
65°	3073.1	584.8	67.8	32.2	29.9	25.3	12.6	6.9	3.4	1.1	0.0
67.5°	2444.7	414.7	59.7	24.1	20.7	16.1	8.0	4.6	1.1	0.0	0.0
70°	1409.6	224.0	49.4	17.2	13.8	10.3	5.7	2.3	0.0	0.0	0.0
72.5°	471.0	104.5	37.9	11.5	10.3	8.0	3.4	1.1	0.0	0.0	0.0
75°	103.4	62.0	25.3	8.0	6.9	5.7	2.3	0.0	0.0	0.0	0.0
77.5°	39.1	43.7	12.6	5.7	4.6	3.4	1.1	0.0	0.0	0.0	0.0
80°	14.9	28.7	5.7	3.4	3.4	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	8.0	11.5	3.4	2.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	5.7	2.3	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.1	1.1	1.1	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)