

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P324927

Luminaire Tested: **GLEON-SA3C-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA3C-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12994 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

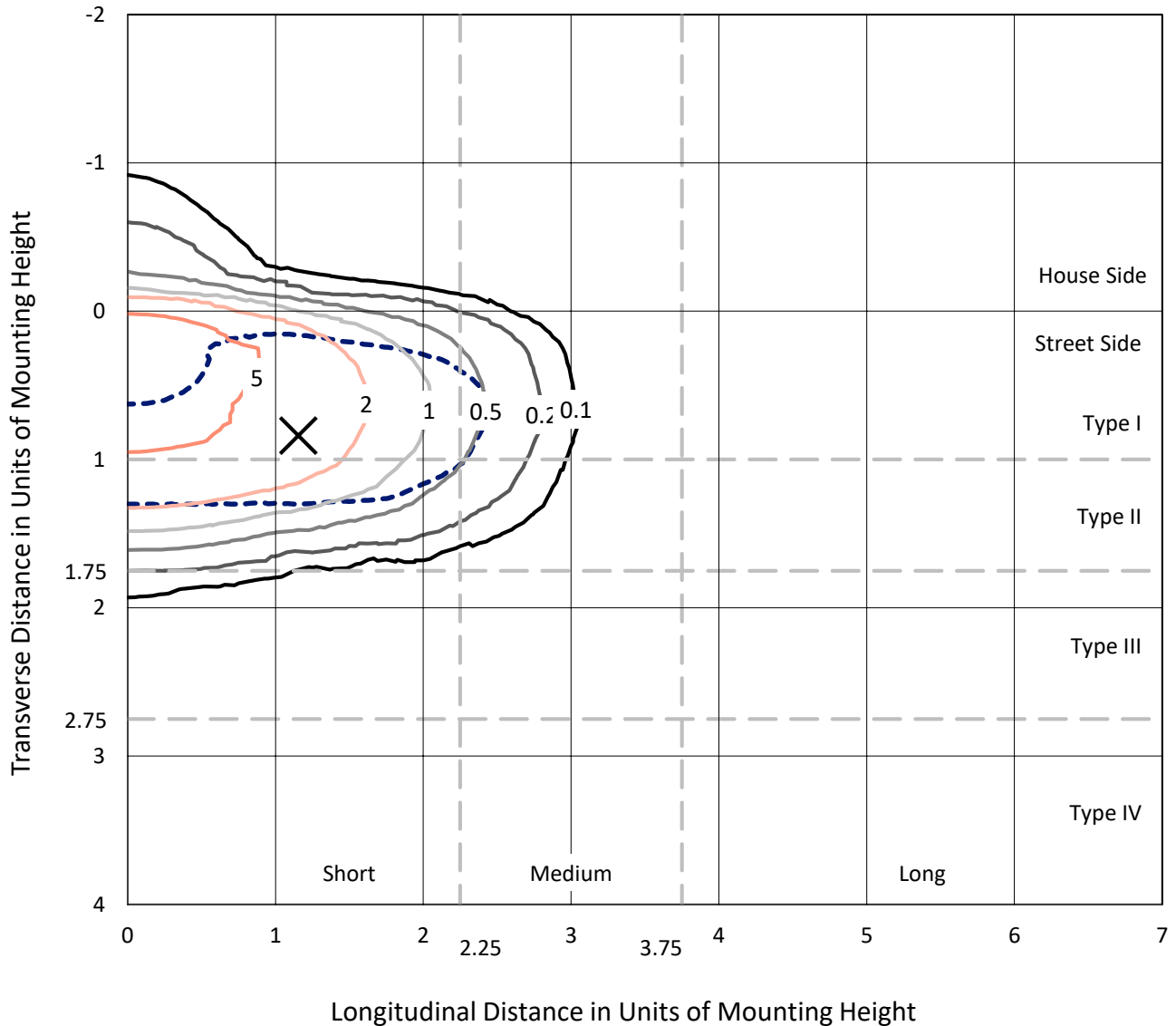
Input Watts (W): 166  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

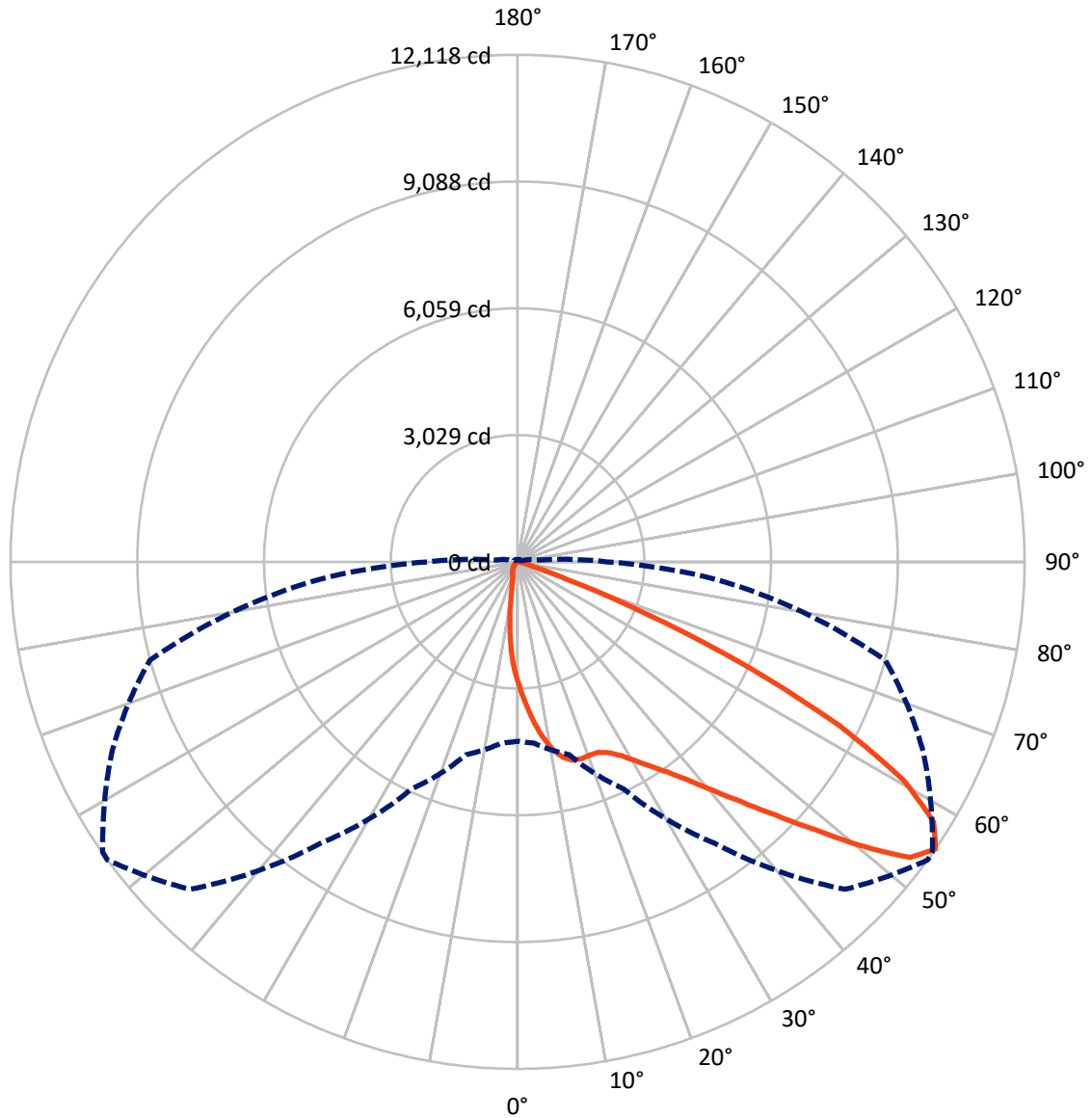
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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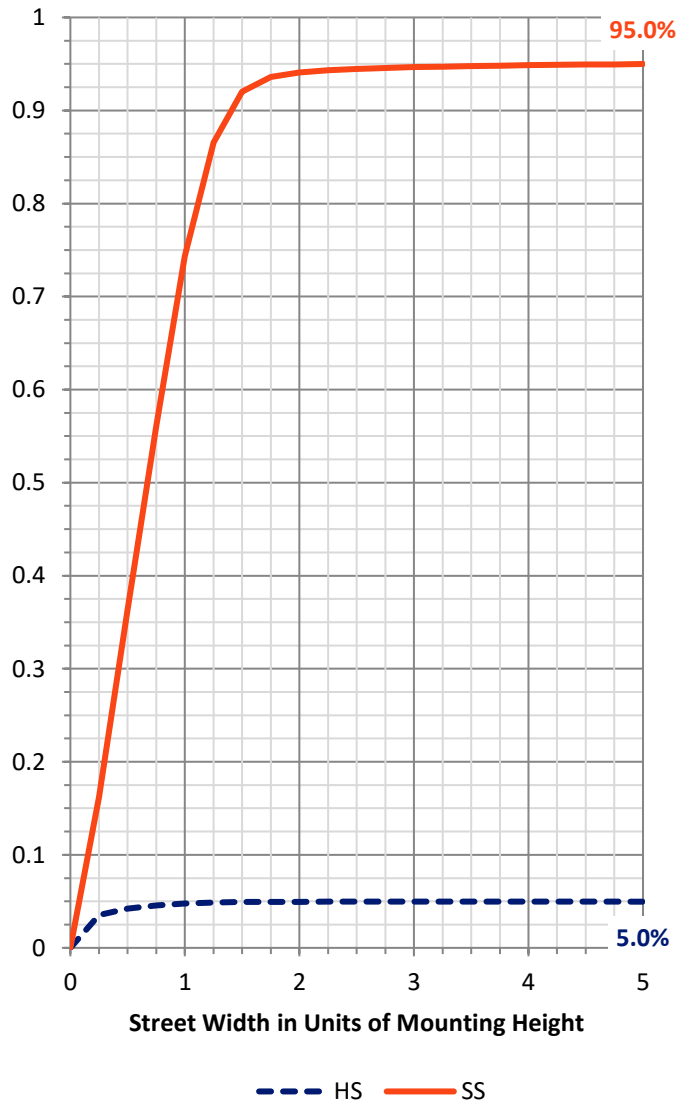
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	648.3	0.0	648.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	12345.7	0.0	12345.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	12994.0	0.0	12994.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.0	2.1
10°-20°	735.0	5.7
20°-30°	1254.8	9.7
30°-40°	2013.8	15.5
40°-50°	3218.1	24.8
50°-60°	3448.2	26.5
60°-70°	1770.4	13.6
70°-80°	268.2	2.1
80°-90°	17.5	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°	12994.0	100.0
0°-180°	12994.0	100.0

**Coefficient of Utilization**

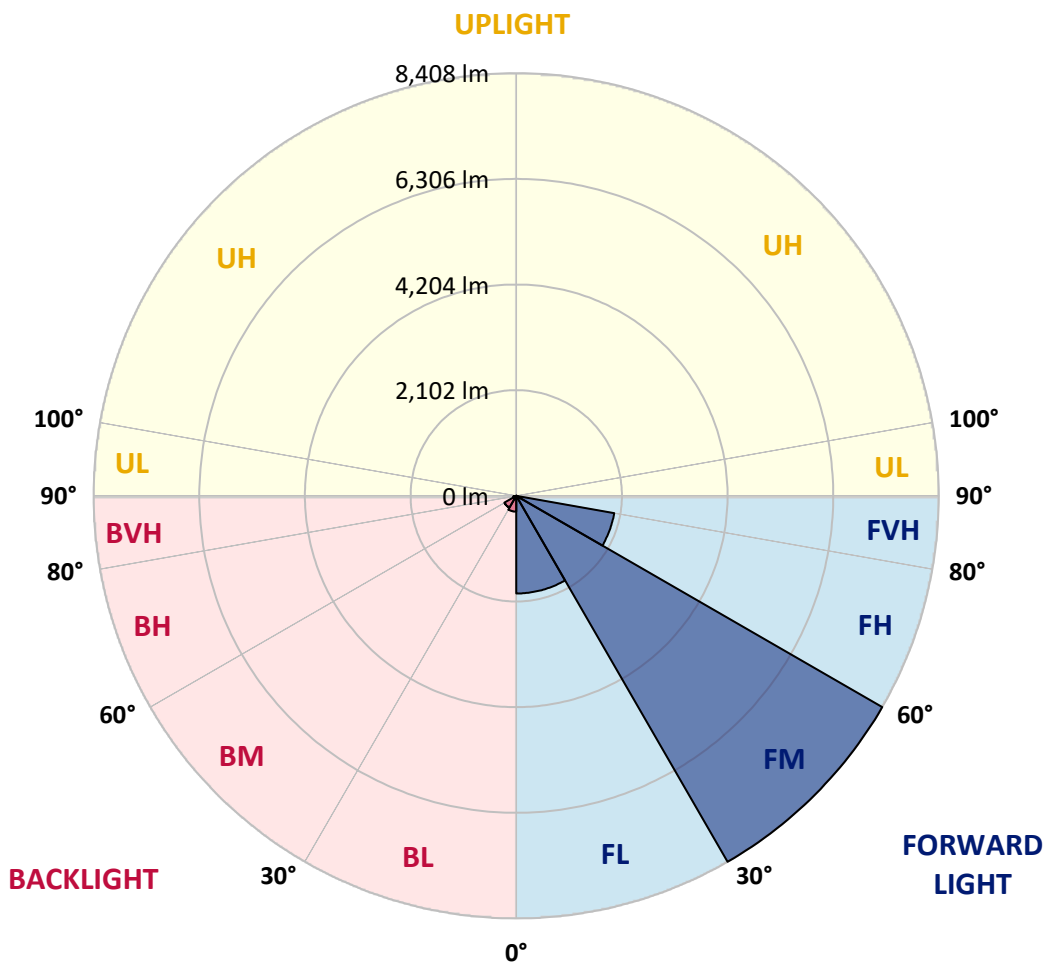


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.4	14.9			
FM (30°-60°)	8407.7	64.7			
FH (60°-80°)	1978.9	15.2			G2/5000
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	315.4	2.4	B1/500		
BM (30°-60°)	272.4	2.1	B1/1000		
BH (60°-80°)	59.7	0.5	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	3652.0	3597.5	3599.2	3574.5	3484.2	3413.5	3340.0	3322.6	3208.1	3088.0	2972.4
5°	4283.3	4243.4	4233.9	4186.2	4060.5	3927.5	3785.0	3751.9	3528.0	3282.2	3040.3
7.5°	4607.6	4608.2	4600.3	4582.9	4504.4	4375.3	4201.3	4166.6	3861.8	3493.2	3111.0
10°	4513.3	4534.7	4578.4	4636.2	4696.3	4680.0	4549.3	4517.8	4186.8	3716.5	3189.6
12.5°	4293.4	4296.2	4345.0	4439.8	4612.7	4790.0	4792.2	4781.6	4497.1	3949.9	3276.0
15°	4183.9	4194.6	4212.6	4273.7	4437.6	4721.5	4924.7	4939.8	4781.6	4198.0	3368.0
17.5°	4255.8	4270.9	4255.8	4263.1	4357.9	4613.2	4947.7	4986.4	5030.2	4443.2	3455.0
20°	4450.5	4464.5	4437.6	4407.8	4426.4	4581.8	4931.4	4983.6	5224.9	4660.9	3528.0
22.5°	4713.1	4718.7	4677.8	4628.9	4615.5	4688.4	4944.9	4998.7	5380.9	4857.9	3574.0
25°	5002.1	5007.2	4956.1	4900.0	4868.0	4897.7	5055.4	5095.8	5518.4	5045.9	3600.4
27.5°	5316.9	5321.4	5257.4	5188.4	5151.4	5152.5	5237.8	5281.0	5664.8	5260.2	3621.7
30°	5649.7	5647.4	5588.5	5492.6	5445.4	5444.3	5500.4	5544.2	5876.9	5535.2	3650.9
32.5°	6023.4	6018.9	5935.3	5816.3	5763.0	5770.9	5820.8	5846.1	6140.1	5828.1	3703.0
35°	6515.5	6502.6	6376.4	6228.8	6130.6	6127.8	6169.9	6190.1	6475.7	6182.8	3790.0
37.5°	7154.1	7142.3	6971.2	6756.8	6618.8	6567.2	6617.1	6642.9	6954.4	6637.9	3929.7
40°	7783.7	7772.0	7670.4	7474.0	7261.3	7137.3	7176.6	7204.1	7552.0	7190.0	4105.9
42.5°	8218.1	8228.2	8263.5	8279.8	8080.6	7820.2	7838.2	7866.8	8179.9	7780.4	4307.4
45°	8332.5	8354.4	8554.2	8946.4	9021.1	8817.9	8630.0	8645.7	8817.9	8370.7	4508.9
47.5°	7988.6	8029.0	8414.5	9144.0	9775.8	9919.5	9563.7	9543.0	9430.2	8848.2	4652.0
50°	7206.9	7243.9	7743.3	8822.4	10004.8	10971.1	10682.7	10621.5	9967.2	9133.9	4702.5
52.5°	6075.6	6120.5	6526.2	7810.1	9573.3	11440.2	11742.1	11691.0	10361.1	9156.3	4710.9
55°	4290.6	4345.0	4774.3	5985.8	8205.7	11067.0	12117.5	12102.4	10688.3	9096.8	4728.8
57.5°	2411.3	2450.6	2913.5	3837.2	6009.9	9639.5	11725.3	11825.7	10885.8	8993.6	4755.8
60°	1070.7	1081.3	1321.0	1910.2	3518.4	7366.8	10602.4	10771.9	10716.3	8855.5	4801.2
62.5°	593.7	584.7	584.7	794.0	1529.1	4560.5	8645.7	8925.7	9993.0	8692.2	4803.5
65°	465.2	456.8	432.6	436.0	582.5	2024.1	5986.9	6484.7	8619.3	8213.6	4641.8
67.5°	394.5	387.2	363.1	353.5	361.9	667.8	3289.5	3806.3	6540.2	6969.5	4020.7
70°	333.3	328.3	315.9	304.1	282.8	330.0	1258.7	1609.9	4030.2	4636.2	2744.6
72.5°	268.2	266.0	270.5	260.4	234.6	220.0	430.4	521.3	1810.3	2069.0	1130.7
75°	231.2	230.1	232.3	222.2	193.0	153.2	218.8	239.1	510.6	506.2	229.0
77.5°	150.4	152.1	192.5	188.0	166.1	102.1	113.4	122.3	154.9	116.2	69.6
80°	96.0	94.8	97.6	156.0	149.3	78.0	56.7	59.5	74.6	57.2	33.7
82.5°	58.4	57.2	64.0	72.9	75.2	54.4	34.8	35.4	46.6	37.0	18.0
85°	5.1	6.7	38.7	35.9	25.8	16.8	16.8	18.0	24.7	21.9	10.1
87.5°	0.0	0.0	6.7	10.1	5.6	6.2	6.2	6.7	9.5	9.5	5.1
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°	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1	2910.1
2.5°	2912.4	2854.0	2736.2	2622.8	2526.9	2434.3	2328.8	2224.4	2175.6	2155.9	2135.7
5°	2917.4	2797.3	2554.4	2309.7	2056.1	1827.7	1633.0	1433.2	1333.3	1289.5	1269.3
7.5°	2924.2	2741.2	2348.4	1937.7	1529.1	1219.4	948.9	775.0	699.8	688.0	658.8
10°	2925.3	2673.3	2109.4	1526.9	1025.2	735.1	565.6	475.9	442.7	437.1	427.6
12.5°	2927.5	2593.1	1843.9	1130.7	683.5	491.6	409.1	379.3	370.4	369.8	369.8
15°	2934.3	2508.9	1568.4	814.8	491.0	389.4	359.1	347.4	344.0	345.7	345.1
17.5°	2934.3	2409.6	1297.9	607.2	396.7	350.2	333.3	325.5	324.3	326.0	326.6
20°	2912.9	2288.9	1049.9	472.5	351.8	324.9	309.8	302.5	299.7	300.8	301.3
22.5°	2861.9	2140.8	847.9	391.1	322.1	301.9	285.6	274.4	269.9	270.5	270.5
25°	2782.2	1965.2	663.3	338.4	298.0	277.2	258.1	245.2	242.4	241.9	243.0
27.5°	2680.1	1771.0	528.0	298.0	269.4	249.7	230.6	220.0	217.7	218.3	218.8
30°	2579.6	1569.5	416.4	263.7	237.4	218.8	204.3	199.2	199.2	200.9	201.5
32.5°	2487.6	1375.9	329.4	234.0	208.7	191.9	183.5	182.9	185.7	186.9	187.4
35°	2408.5	1196.9	272.7	211.0	186.3	171.7	168.9	171.2	174.5	176.8	177.3
37.5°	2352.3	1037.0	238.5	191.9	168.9	157.1	156.6	161.1	165.5	170.6	171.7
40°	2328.8	901.8	214.9	175.1	154.9	145.9	144.2	150.4	158.8	166.1	167.2
42.5°	2309.1	791.2	194.7	158.8	143.7	130.7	130.2	138.0	148.1	155.4	157.1
45°	2292.3	702.6	176.2	141.4	129.1	112.2	113.9	124.0	131.9	139.7	141.4
47.5°	2257.5	629.6	156.0	122.9	106.6	96.0	99.3	108.3	114.5	126.3	127.9
50°	2195.2	570.1	135.2	100.4	87.0	83.1	88.1	94.3	102.1	112.2	113.4
52.5°	2153.1	525.2	117.3	84.2	71.8	72.9	78.0	80.2	84.7	88.7	87.5
55°	2129.0	500.5	102.7	72.9	61.2	64.5	65.7	62.8	60.6	56.7	55.0
57.5°	2126.2	478.1	91.5	63.4	53.9	55.6	51.6	42.1	34.2	29.7	28.6
60°	2121.7	450.6	82.5	53.3	47.7	45.5	37.0	23.0	16.3	15.2	15.2
62.5°	2072.9	408.0	75.8	44.9	40.4	34.2	21.3	10.7	9.0	9.5	9.5
65°	1917.5	348.5	69.0	36.5	32.0	24.7	10.7	6.2	3.4	3.9	3.9
67.5°	1630.1	277.8	61.7	28.1	24.1	15.7	6.2	2.8	0.0	0.0	0.0
70°	1091.4	172.3	52.2	19.6	15.7	9.5	4.5	0.6	0.0	0.0	0.0
72.5°	418.6	93.2	42.1	11.8	10.1	6.7	2.8	0.0	0.0	0.0	0.0
75°	94.3	61.2	29.2	8.4	7.3	4.5	1.1	0.0	0.0	0.0	0.0
77.5°	35.9	44.3	16.8	5.6	5.1	2.8	0.0	0.0	0.0	0.0	0.0
80°	17.4	26.4	7.9	3.4	2.8	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	10.1	3.4	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	5.1	1.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.7	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)