

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: P324917

Luminaire Tested: **GLEON-SA3B-827-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324917  
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-SA3B-827-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA 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: 10499 lumens  
Efficiency: N/A  
Efficacy: 84.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

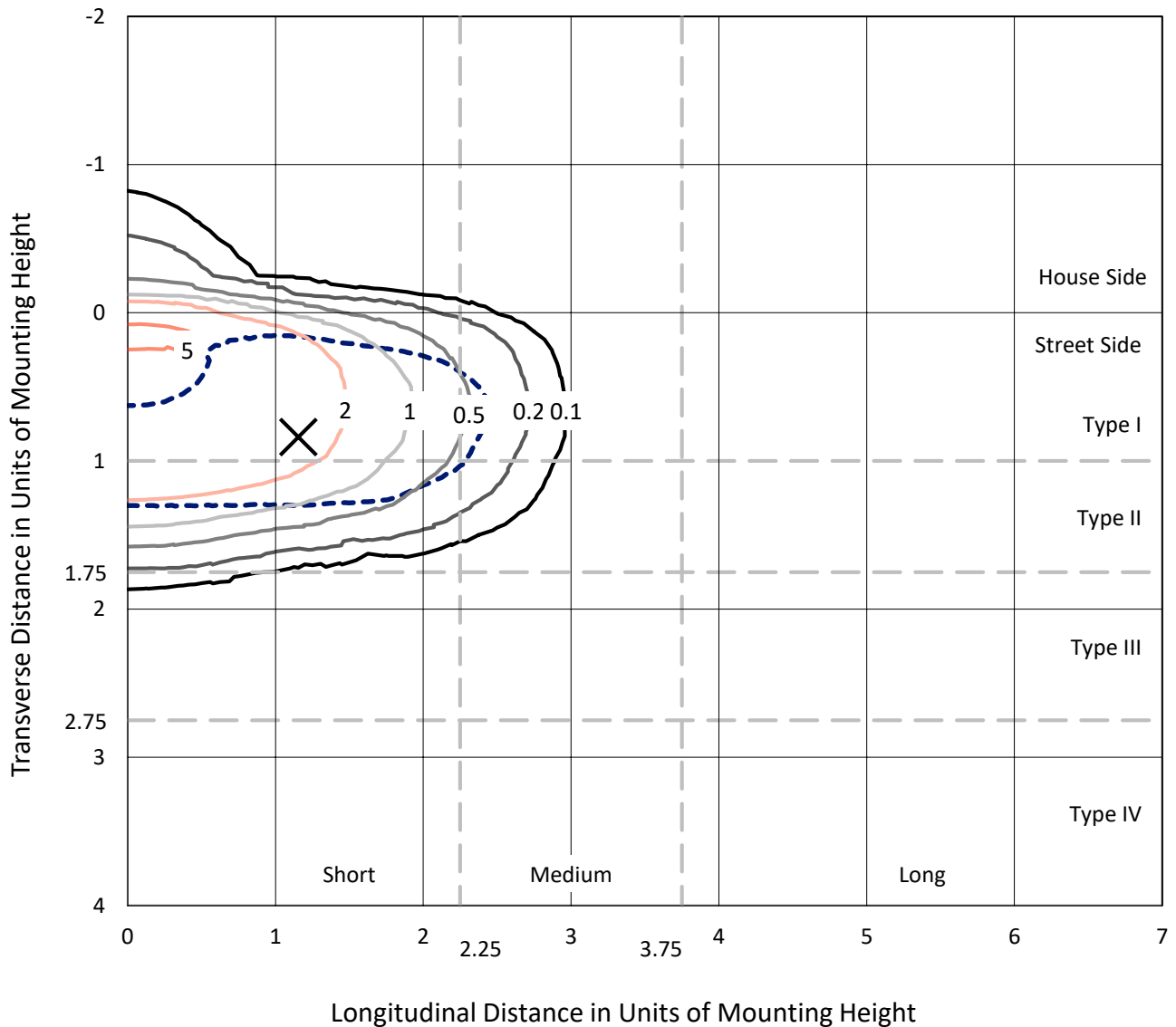
Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

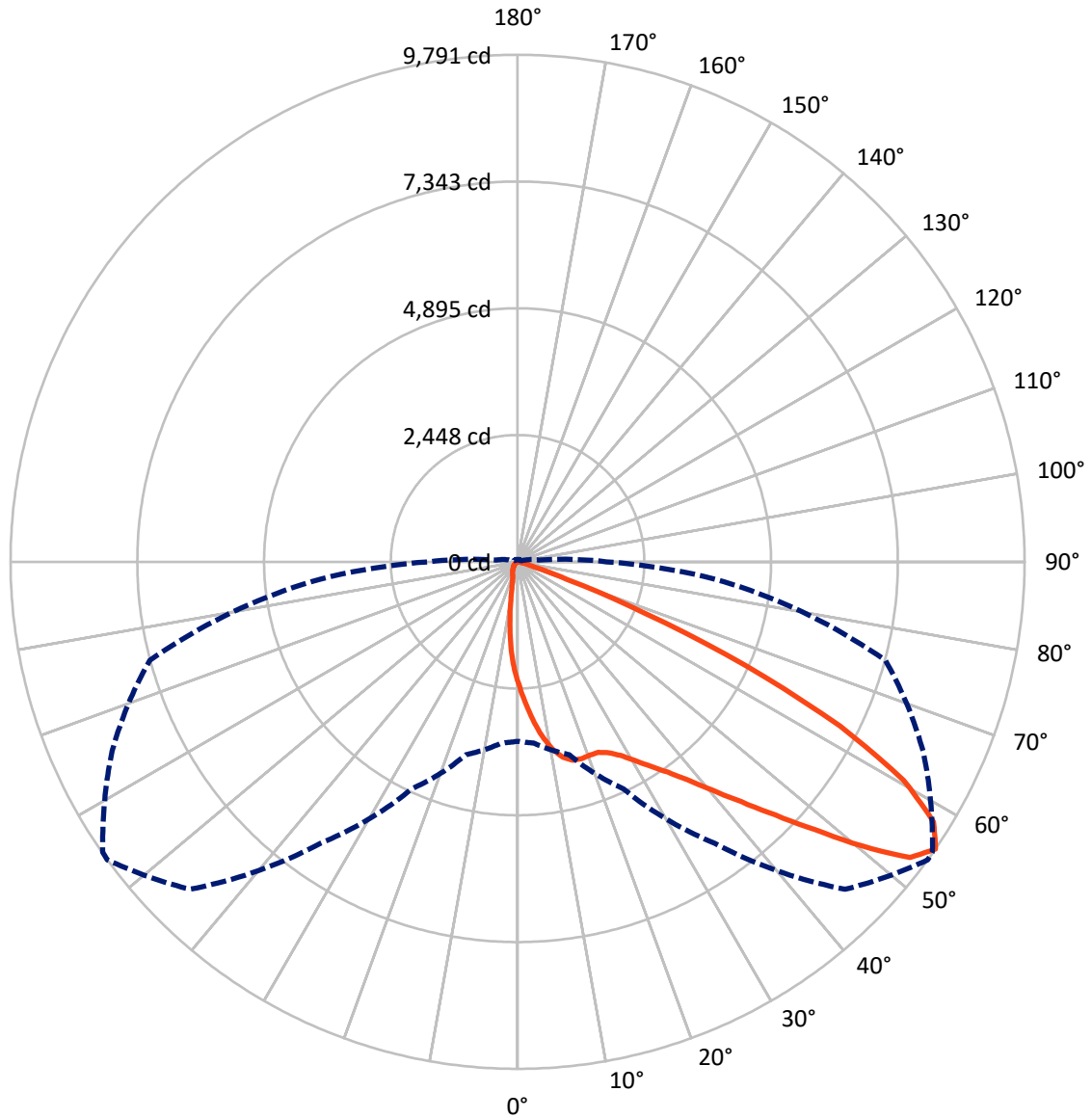
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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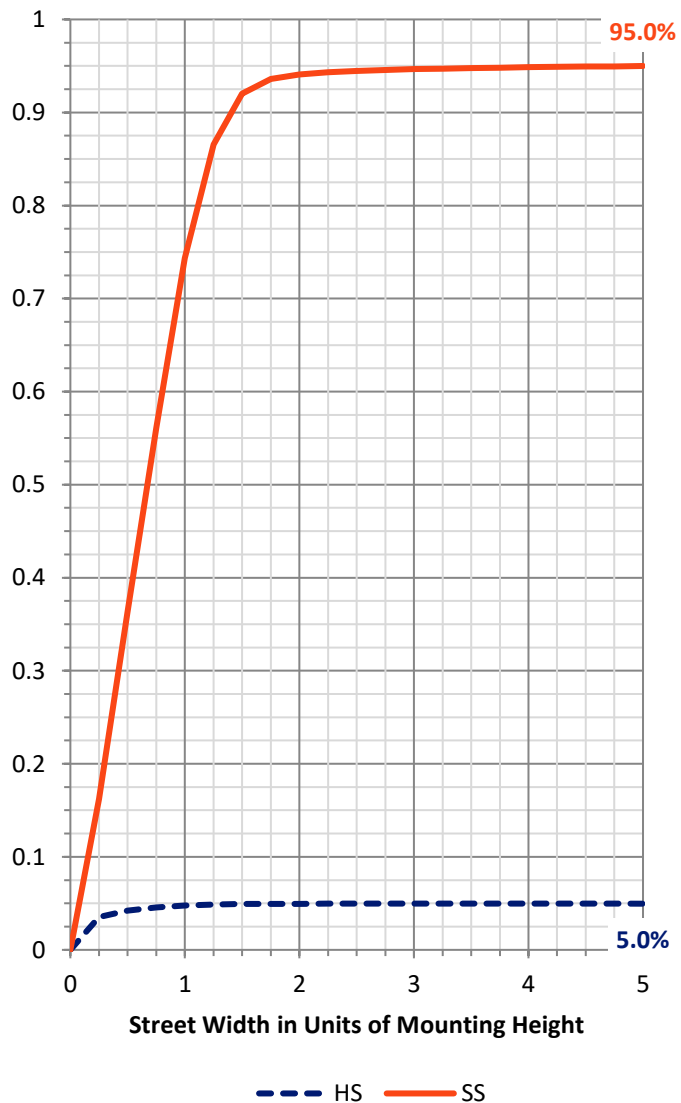
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	523.8	0.0	523.8
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	9975.2	0.0	9975.2
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	10499.0	0.0	10499.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.5	2.1
10°-20°	593.9	5.7
20°-30°	1013.9	9.7
30°-40°	1627.1	15.5
40°-50°	2600.2	24.8
50°-60°	2786.1	26.5
60°-70°	1430.5	13.6
70°-80°	216.7	2.1
80°-90°	14.1	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°	10499.0	100.0
0°-180°	10499.0	100.0

**Coefficient of Utilization**

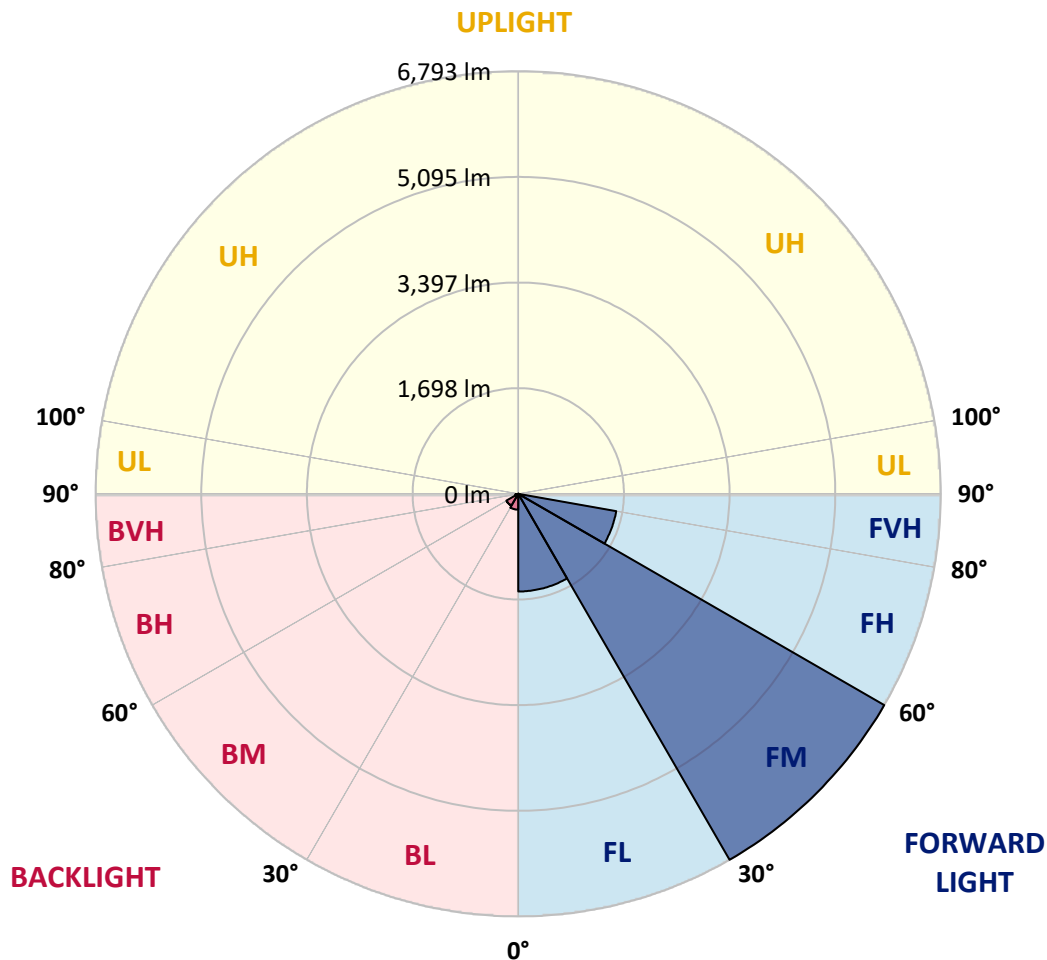


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1569.4	14.9			
FM (30°-60°)	6793.3	64.7			
FH (60°-80°)	1598.9	15.2			G1/1800
FVH (80°-90°)	13.5	0.1			G1/100
BL (0°-30°)	254.9	2.4	B1/500		
BM (30°-60°)	220.1	2.1	B1/1000		
BH (60°-80°)	48.3	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	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°	54°	55°	65°	75°	85°
0°	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4
2.5°	2950.8	2906.8	2908.1	2888.2	2815.2	2758.1	2698.7	2684.6	2592.1	2495.1	2401.7
5°	3460.8	3428.6	3420.9	3382.4	3280.8	3173.4	3058.2	3031.5	2850.6	2652.0	2456.5
7.5°	3722.9	3723.4	3717.0	3703.0	3639.5	3535.2	3394.6	3366.5	3120.3	2822.4	2513.7
10°	3646.7	3664.0	3699.3	3746.0	3794.5	3781.4	3675.7	3650.4	3382.8	3002.9	2577.1
12.5°	3469.0	3471.3	3510.7	3587.3	3727.0	3870.3	3872.1	3863.5	3633.6	3191.5	2647.0
15°	3380.6	3389.2	3403.7	3453.1	3585.5	3814.9	3979.1	3991.3	3863.5	3391.9	2721.3
17.5°	3438.6	3450.9	3438.6	3444.5	3521.1	3727.4	3997.7	4029.0	4064.3	3590.1	2791.6
20°	3595.9	3607.3	3585.5	3561.5	3576.5	3702.0	3984.5	4026.7	4221.6	3766.0	2850.6
22.5°	3808.1	3812.7	3779.6	3740.1	3729.3	3788.2	3995.4	4038.9	4347.7	3925.1	2887.7
25°	4041.6	4045.7	4004.5	3959.1	3933.3	3957.3	4084.7	4117.4	4458.8	4077.0	2909.0
27.5°	4296.0	4299.6	4247.9	4192.2	4162.3	4163.2	4232.1	4267.0	4577.1	4250.2	2926.3
30°	4564.9	4563.1	4515.5	4437.9	4399.8	4398.9	4444.3	4479.6	4748.5	4472.4	2949.8
32.5°	4866.8	4863.2	4795.7	4699.5	4656.5	4662.8	4703.2	4723.6	4961.1	4709.1	2992.0
35°	5264.5	5254.0	5152.0	5032.8	4953.4	4951.2	4985.2	5001.5	5232.3	4995.6	3062.3
37.5°	5780.5	5770.9	5632.6	5459.4	5347.9	5306.2	5346.5	5367.4	5619.0	5363.3	3175.2
40°	6289.2	6279.6	6197.6	6038.9	5867.1	5766.8	5798.6	5820.8	6101.9	5809.5	3317.6
42.5°	6640.1	6648.3	6676.8	6690.0	6529.0	6318.6	6333.2	6356.3	6609.3	6286.5	3480.3
45°	6732.6	6750.3	6911.7	7228.6	7288.9	7124.8	6972.9	6985.6	7124.8	6763.4	3643.1
47.5°	6454.7	6487.3	6798.8	7388.2	7898.8	8014.8	7727.4	7710.6	7619.5	7149.3	3758.7
50°	5823.1	5853.0	6256.5	7128.4	8083.7	8864.5	8631.5	8582.0	8053.4	7380.1	3799.5
52.5°	4909.0	4945.3	5273.1	6310.5	7735.1	9243.6	9487.5	9446.2	8371.7	7398.2	3806.3
55°	3466.7	3510.7	3857.6	4836.5	6630.1	8942.0	9790.8	9778.6	8636.0	7350.1	3820.8
57.5°	1948.3	1980.0	2354.1	3100.4	4856.0	7788.6	9473.9	9555.0	8795.6	7266.7	3842.6
60°	865.1	873.7	1067.3	1543.4	2842.8	5952.3	8566.6	8703.5	8658.7	7155.2	3879.3
62.5°	479.7	472.4	472.4	641.6	1235.5	3684.8	6985.6	7211.8	8074.2	7023.2	3881.1
65°	375.9	369.1	349.6	352.3	470.6	1635.4	4837.4	5239.5	6964.3	6636.5	3750.6
67.5°	318.7	312.8	293.4	285.6	292.4	539.6	2657.9	3075.4	5284.4	5631.3	3248.6
70°	269.3	265.2	255.3	245.7	228.5	266.6	1017.0	1300.8	3256.3	3746.0	2217.6
72.5°	216.7	214.9	218.5	210.4	189.5	177.7	347.8	421.2	1462.7	1671.7	913.6
75°	186.8	185.9	187.7	179.5	156.0	123.8	176.8	193.2	412.6	409.0	185.0
77.5°	121.5	122.9	155.5	151.9	134.2	82.5	91.6	98.8	125.1	93.9	56.2
80°	77.5	76.6	78.9	126.0	120.6	63.0	45.8	48.1	60.3	46.2	27.2
82.5°	47.2	46.2	51.7	58.9	60.8	44.0	28.1	28.6	37.6	29.9	14.5
85°	4.1	5.4	31.3	29.0	20.9	13.6	13.6	14.5	19.9	17.7	8.2
87.5°	0.0	0.0	5.4	8.2	4.5	5.0	5.0	5.4	7.7	7.7	4.1
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°	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4	2351.4
2.5°	2353.2	2306.0	2210.8	2119.2	2041.7	1966.9	1881.6	1797.3	1757.8	1742.0	1725.7
5°	2357.2	2260.2	2063.9	1866.2	1661.3	1476.7	1319.4	1158.0	1077.3	1041.9	1025.6
7.5°	2362.7	2214.9	1897.5	1565.6	1235.5	985.2	766.7	626.2	565.4	555.9	532.3
10°	2363.6	2160.0	1704.3	1233.7	828.4	594.0	457.0	384.5	357.7	353.2	345.5
12.5°	2365.4	2095.2	1489.9	913.6	552.2	397.2	330.5	306.5	299.2	298.8	298.8
15°	2370.9	2027.2	1267.3	658.3	396.7	314.7	290.2	280.7	277.9	279.3	278.8
17.5°	2370.9	1946.9	1048.7	490.6	320.6	282.9	269.3	263.0	262.1	263.4	263.9
20°	2353.6	1849.4	848.3	381.8	284.3	262.5	250.3	244.4	242.1	243.0	243.5
22.5°	2312.4	1729.7	685.1	316.0	260.3	243.9	230.8	221.7	218.1	218.5	218.5
25°	2248.0	1587.8	535.9	273.4	240.8	224.0	208.6	198.1	195.9	195.4	196.3
27.5°	2165.5	1430.9	426.7	240.8	217.6	201.8	186.3	177.7	175.9	176.4	176.8
30°	2084.3	1268.2	336.4	213.1	191.8	176.8	165.0	161.0	161.0	162.3	162.8
32.5°	2009.9	1111.7	266.1	189.1	168.7	155.1	148.3	147.8	150.1	151.0	151.4
35°	1946.0	967.1	220.4	170.5	150.5	138.7	136.5	138.3	141.0	142.8	143.3
37.5°	1900.7	837.9	192.7	155.1	136.5	127.0	126.5	130.1	133.8	137.8	138.7
40°	1881.6	728.6	173.7	141.5	125.1	117.9	116.5	121.5	128.3	134.2	135.1
42.5°	1865.8	639.3	157.3	128.3	116.1	105.6	105.2	111.5	119.7	125.6	127.0
45°	1852.2	567.7	142.4	114.3	104.3	90.7	92.0	100.2	106.6	112.9	114.3
47.5°	1824.0	508.7	126.0	99.3	86.1	77.5	80.3	87.5	92.5	102.0	103.4
50°	1773.7	460.7	109.3	81.2	70.3	67.1	71.2	76.2	82.5	90.7	91.6
52.5°	1739.7	424.4	94.8	68.0	58.0	58.9	63.0	64.8	68.5	71.6	70.7
55°	1720.2	404.4	83.0	58.9	49.4	52.1	53.0	50.8	49.0	45.8	44.4
57.5°	1717.9	386.3	73.9	51.2	43.5	44.9	41.7	34.0	27.7	24.0	23.1
60°	1714.3	364.1	66.7	43.1	38.5	36.7	29.9	18.6	13.1	12.2	12.2
62.5°	1674.9	329.6	61.2	36.3	32.6	27.7	17.2	8.6	7.3	7.7	7.7
65°	1549.3	281.6	55.8	29.5	25.8	19.9	8.6	5.0	2.7	3.2	3.2
67.5°	1317.1	224.4	49.9	22.7	19.5	12.7	5.0	2.3	0.0	0.0	0.0
70°	881.9	139.2	42.2	15.9	12.7	7.7	3.6	0.5	0.0	0.0	0.0
72.5°	338.2	75.3	34.0	9.5	8.2	5.4	2.3	0.0	0.0	0.0	0.0
75°	76.2	49.4	23.6	6.8	5.9	3.6	0.9	0.0	0.0	0.0	0.0
77.5°	29.0	35.8	13.6	4.5	4.1	2.3	0.0	0.0	0.0	0.0	0.0
80°	14.1	21.3	6.3	2.7	2.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	8.2	2.7	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.1	4.1	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.4	0.5	0.5	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)