

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: P383273

Luminaire Tested: **GLEON-SA6A-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383273  
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-SA6A-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA 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: 21256 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

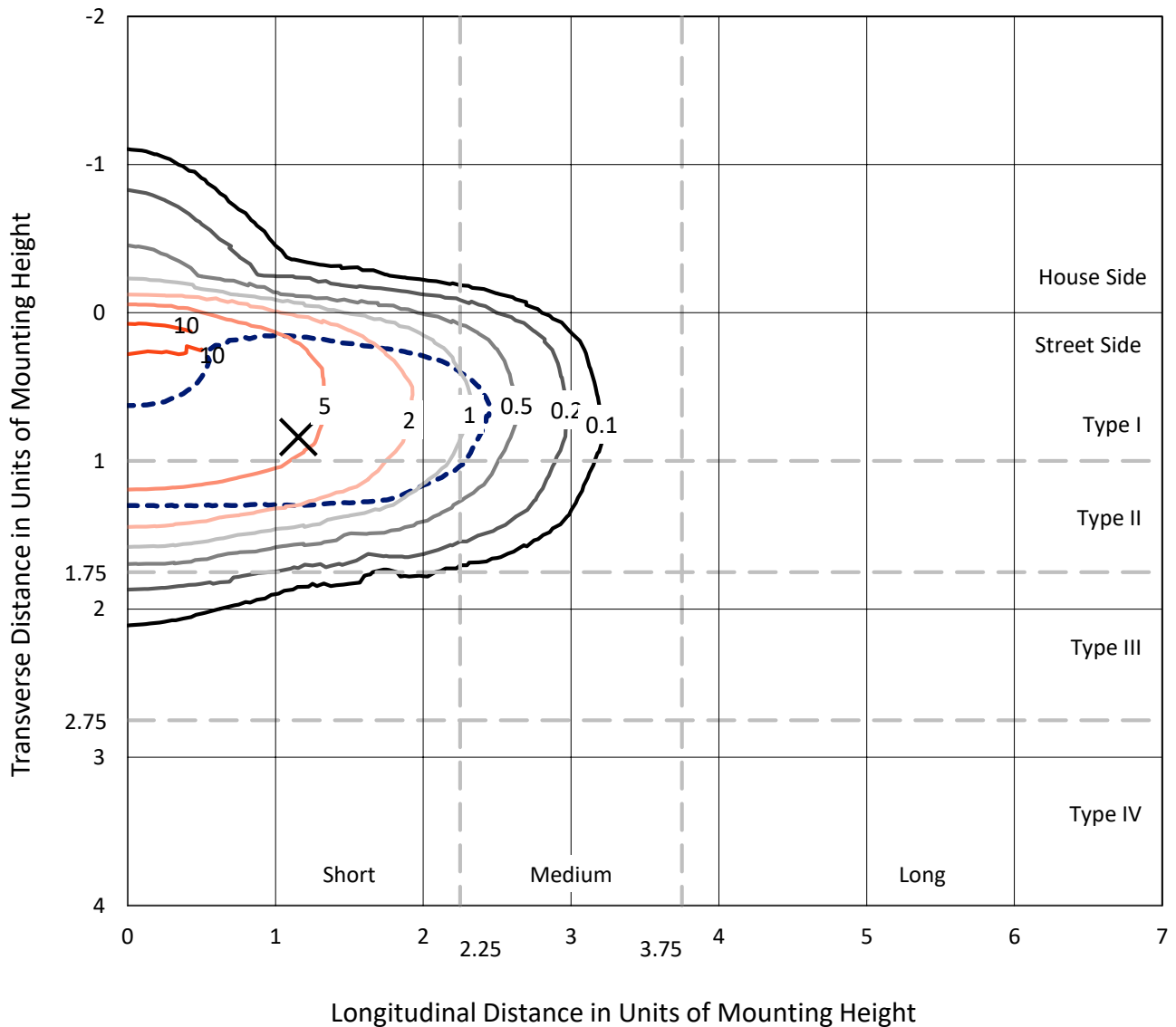
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

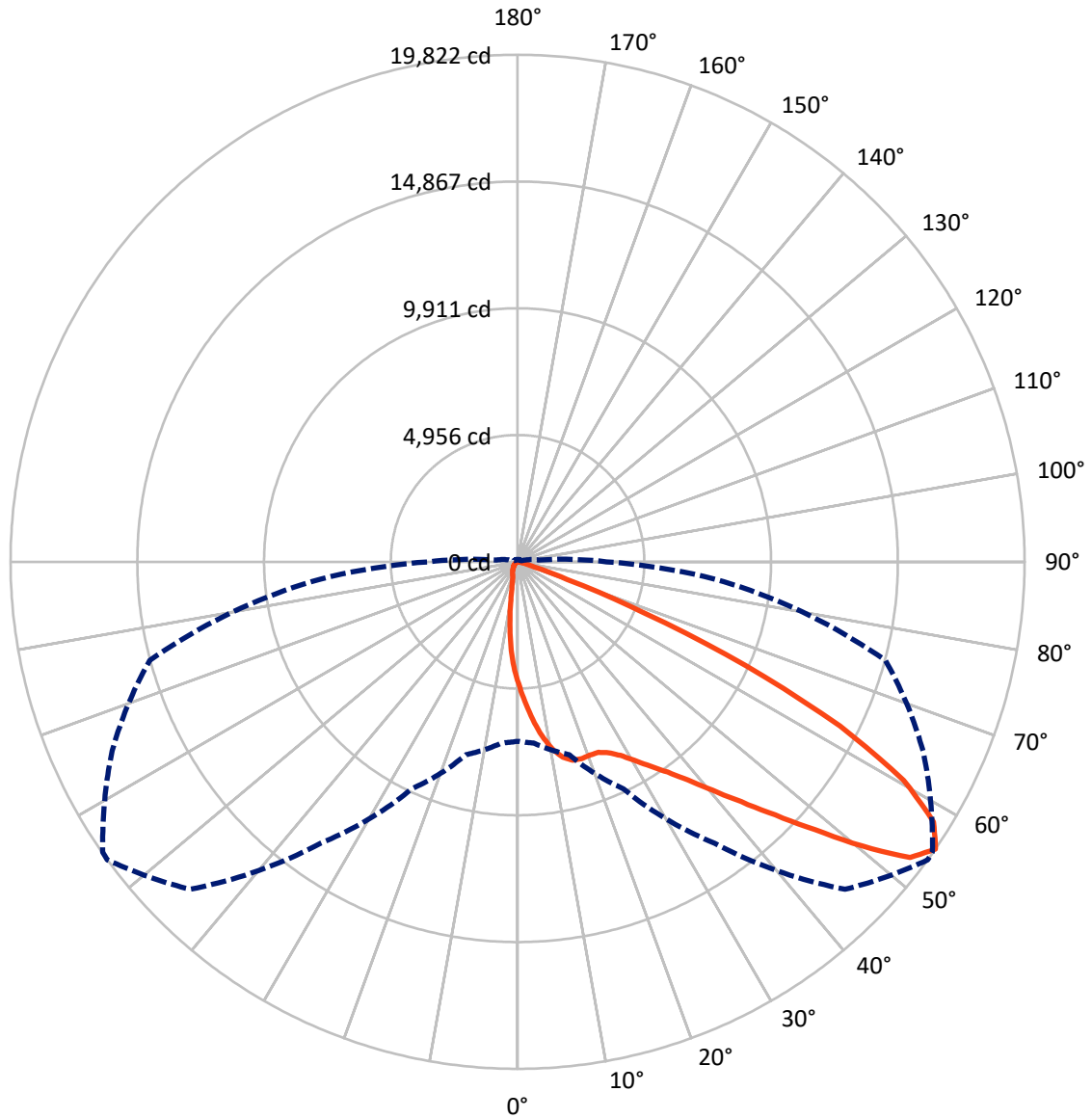
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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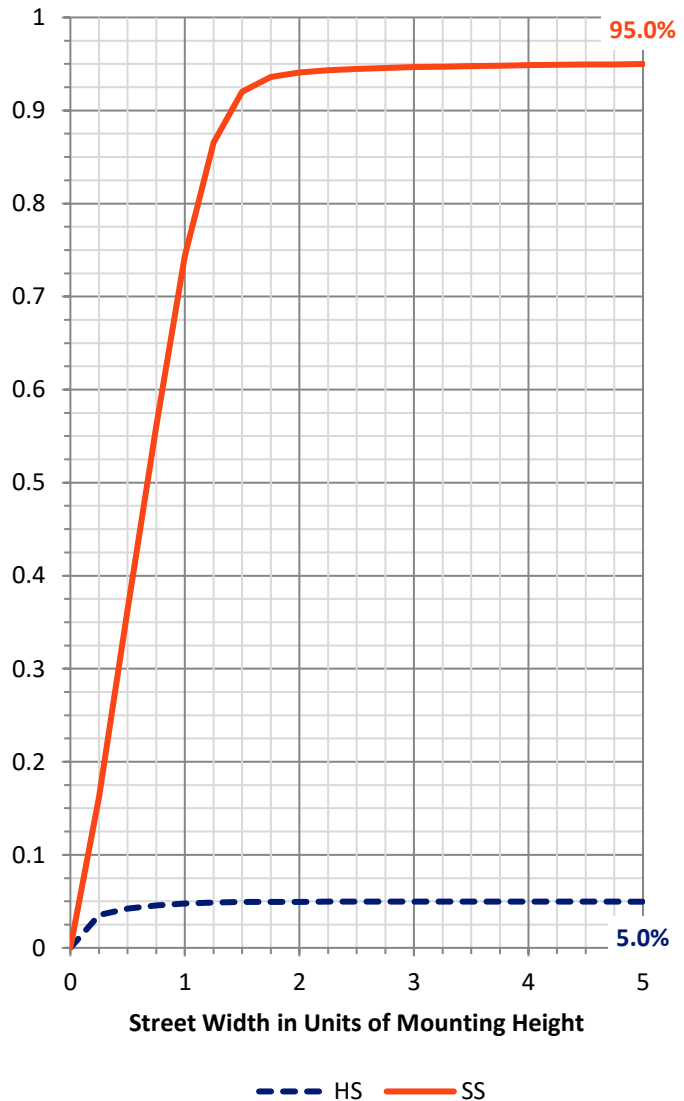
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1060.5	0.0	1060.5
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	20195.5	0.0	20195.5
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	21256.0	0.0	21256.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.4	2.1
10°-20°	1202.3	5.7
20°-30°	2052.7	9.7
30°-40°	3294.2	15.5
40°-50°	5264.2	24.8
50°-60°	5640.8	26.5
60°-70°	2896.1	13.6
70°-80°	438.7	2.1
80°-90°	28.6	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°	21256.0	100.0
0°-180°	21256.0	100.0

**Coefficient of Utilization**



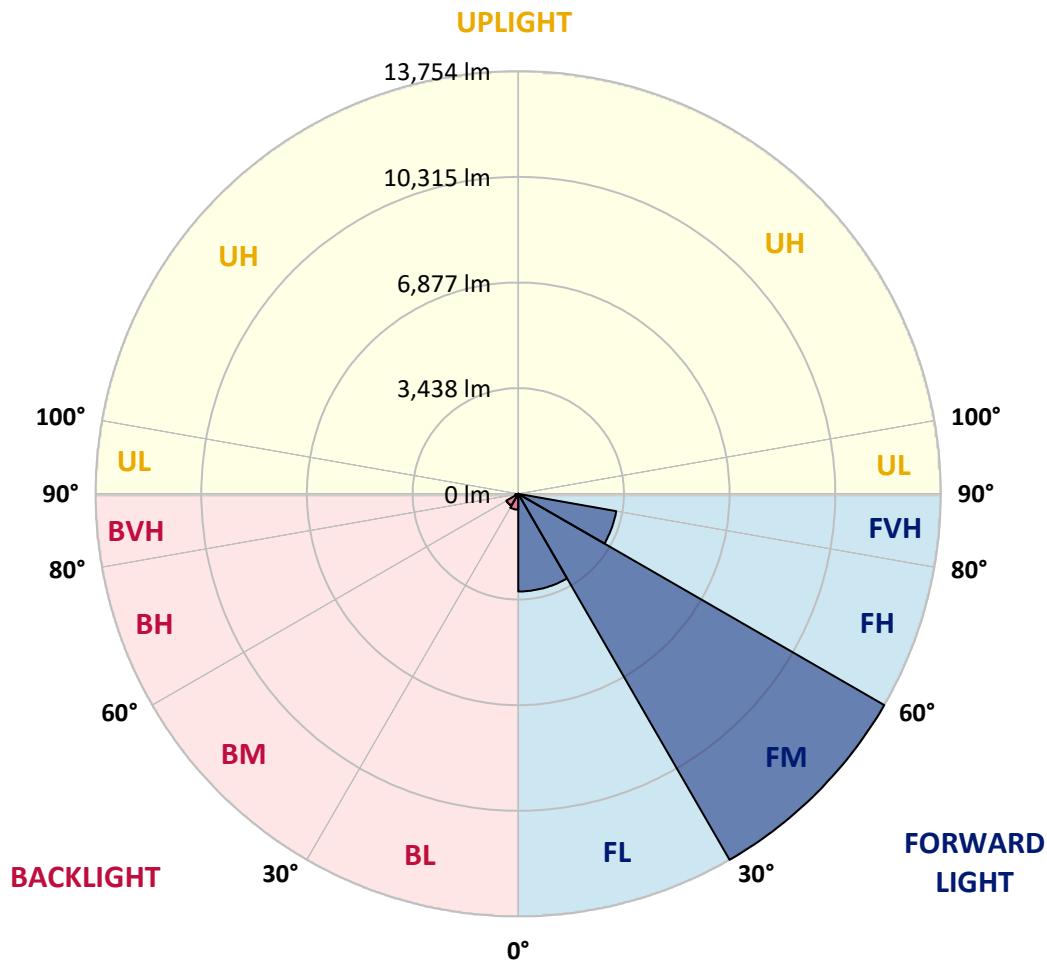
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3177.4	14.9			
FM (30°-60°)	13753.6	64.7			
FH (60°-80°)	3237.1	15.2			G2/5000
FVH (80°-90°)	27.4	0.1			G1/100
BL (0°-30°)	516.0	2.4	B2/1000		
BM (30°-60°)	445.6	2.1	B1/1000		
BH (60°-80°)	97.7	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5
2.5°	5974.0	5885.0	5887.8	5847.3	5699.6	5583.9	5463.6	5435.2	5248.0	5051.5	4862.4
5°	7006.7	6941.5	6926.0	6847.9	6642.3	6424.8	6191.6	6137.4	5771.1	5369.1	4973.4
7.5°	7537.3	7538.3	7525.4	7496.9	7368.4	7157.3	6872.7	6815.8	6317.4	5714.3	5089.1
10°	7383.1	7418.0	7489.5	7584.1	7682.4	7655.7	7441.9	7390.4	6848.8	6079.6	5217.6
12.5°	7023.2	7027.9	7107.7	7262.8	7545.5	7835.6	7839.3	7821.8	7356.4	6461.5	5359.0
15°	6844.3	6861.7	6891.0	6991.2	7259.2	7723.6	8055.9	8080.7	7821.8	6867.2	5509.5
17.5°	6961.7	6986.5	6961.7	6973.7	7128.9	7546.5	8093.6	8156.9	8228.5	7268.3	5651.8
20°	7280.3	7303.2	7259.2	7210.6	7240.8	7495.0	8066.9	8152.3	8547.0	7624.5	5771.1
22.5°	7709.9	7719.1	7652.0	7572.2	7550.2	7669.5	8089.0	8177.1	8802.3	7946.8	5846.5
25°	8182.6	8190.9	8107.4	8015.6	7963.2	8011.9	8269.8	8336.0	9027.2	8254.3	5889.6
27.5°	8697.6	8704.9	8600.3	8487.4	8426.8	8428.6	8568.2	8638.9	9266.8	8604.9	5924.5
30°	9242.0	9238.3	9141.9	8985.0	8907.8	8906.0	8997.8	9069.4	9613.8	9054.6	5972.2
32.5°	9853.3	9846.0	9709.1	9514.5	9427.4	9440.2	9521.9	9563.3	10044.2	9533.8	6057.6
35°	10658.4	10637.2	10430.7	10189.3	10028.7	10024.0	10092.9	10125.9	10593.2	10114.0	6199.8
37.5°	11702.9	11683.7	11403.7	11053.1	10827.3	10742.8	10824.5	10866.7	11376.2	10858.5	6428.4
40°	12733.0	12713.7	12547.5	12226.2	11878.3	11675.5	11739.7	11784.6	12353.8	11761.7	6716.6
42.5°	13443.4	13459.9	13517.8	13544.4	13218.5	12792.6	12822.0	12868.8	13381.0	12727.5	7046.2
45°	13630.7	13666.5	13993.2	14634.9	14757.0	14424.7	14117.2	14142.9	14424.7	13693.1	7375.7
47.5°	13067.9	13134.1	13764.7	14958.0	15991.7	16226.6	15644.7	15610.7	15426.2	14474.3	7609.8
50°	11789.3	11849.8	12666.8	14432.1	16366.2	17946.9	17475.1	17375.0	16304.7	14941.6	7692.4
52.5°	9938.7	10012.1	10675.8	12776.1	15660.2	18714.3	19208.1	19124.7	16949.0	14978.3	7706.2
55°	7018.7	7107.7	7809.9	9791.8	13423.2	18103.9	19822.3	19797.5	17484.2	14880.9	7735.6
57.5°	3944.5	4008.7	4766.0	6277.0	9831.3	15768.6	19180.7	19344.9	17807.4	14712.0	7779.6
60°	1751.5	1768.9	2160.8	3124.7	5755.6	12050.9	17343.8	17621.1	17530.1	14486.2	7854.0
62.5°	971.2	956.5	956.5	1298.9	2501.4	7460.2	14142.9	14601.0	16346.9	14219.0	7857.7
65°	761.0	747.2	707.7	713.3	952.9	3311.1	9793.6	10607.9	14099.7	13436.1	7593.3
67.5°	645.3	633.4	594.0	578.3	592.1	1092.3	5381.1	6226.5	10698.7	11400.9	6577.1
70°	545.2	537.0	516.8	497.5	462.6	539.7	2059.0	2633.6	6592.7	7584.1	4489.7
72.5°	438.8	435.1	442.5	425.9	383.7	359.9	704.1	852.7	2961.3	3384.5	1849.7
75°	378.2	376.3	380.1	363.5	315.8	250.6	358.0	391.1	835.3	828.0	374.5
77.5°	246.0	248.7	314.9	307.5	271.7	167.0	185.5	200.1	253.4	190.0	113.8
80°	157.0	155.1	159.8	255.2	244.2	127.6	92.7	97.3	122.1	93.6	55.1
82.5°	95.5	93.6	104.6	119.3	123.0	89.1	56.9	57.8	76.2	60.6	29.3
85°	8.3	11.0	63.3	58.8	42.2	27.6	27.6	29.3	40.4	35.8	16.5
87.5°	0.0	0.0	11.0	16.5	9.2	10.1	10.1	11.0	15.6	15.6	8.3
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°	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5	4760.5
2.5°	4764.2	4668.7	4475.9	4290.5	4133.6	3982.1	3809.5	3638.7	3558.9	3526.7	3493.8
5°	4772.4	4575.9	4178.5	3778.3	3363.4	2989.8	2671.2	2344.4	2181.0	2109.5	2076.4
7.5°	4783.5	4484.2	3841.6	3169.7	2501.4	1994.7	1552.2	1267.6	1144.7	1125.4	1077.7
10°	4785.3	4373.2	3450.5	2497.8	1677.1	1202.5	925.3	778.4	724.3	715.1	699.5
12.5°	4789.0	4241.9	3016.4	1849.7	1118.0	804.1	669.2	620.5	605.9	604.9	604.9
15°	4800.0	4104.2	2565.7	1332.9	803.2	637.1	587.5	568.2	562.7	565.4	564.5
17.5°	4800.0	3941.7	2123.2	993.2	649.0	572.8	545.2	532.4	530.6	533.3	534.2
20°	4765.1	3744.4	1717.5	772.9	575.5	531.5	506.7	494.7	490.2	492.0	493.0
22.5°	4681.6	3502.0	1387.0	639.8	526.9	493.8	467.3	448.9	441.6	442.5	442.5
25°	4551.2	3214.7	1085.1	553.5	487.5	453.5	422.3	401.1	396.6	395.6	397.5
27.5°	4384.1	2897.0	863.8	487.5	440.6	408.5	377.3	359.9	356.1	357.1	358.0
30°	4219.8	2567.5	681.1	431.4	388.3	358.0	334.1	325.9	325.9	328.6	329.6
32.5°	4069.3	2250.8	538.8	382.8	341.5	313.9	300.1	299.2	303.9	305.6	306.6
35°	3939.9	1958.0	446.1	345.1	304.8	280.9	276.3	279.9	285.5	289.2	290.1
37.5°	3848.0	1696.3	390.1	313.9	276.3	257.0	256.1	263.4	270.8	279.1	280.9
40°	3809.5	1475.1	351.6	286.4	253.4	238.7	235.9	246.0	259.8	271.7	273.6
42.5°	3777.3	1294.3	318.5	259.8	235.0	213.9	213.0	225.8	242.3	254.3	257.0
45°	3749.9	1149.3	288.2	231.3	211.1	183.6	186.3	202.9	215.7	228.6	231.3
47.5°	3692.9	1029.9	255.2	201.0	174.4	157.0	162.5	177.2	187.2	206.5	209.3
50°	3591.0	932.7	221.2	164.3	142.2	135.8	144.1	154.2	167.0	183.6	185.5
52.5°	3522.2	859.2	191.8	137.7	117.5	119.3	127.6	131.3	138.6	145.0	143.2
55°	3482.7	818.8	168.0	119.3	100.0	105.5	107.4	102.8	99.1	92.7	90.0
57.5°	3478.1	782.1	149.6	103.8	88.1	90.9	84.5	68.8	56.0	48.6	46.9
60°	3470.8	737.1	135.0	87.2	78.1	74.3	60.6	37.6	26.6	24.8	24.8
62.5°	3390.9	667.4	123.9	73.4	66.0	56.0	34.8	17.4	14.7	15.6	15.6
65°	3136.6	570.0	112.9	59.7	52.4	40.4	17.4	10.1	5.5	6.4	6.4
67.5°	2666.6	454.4	101.0	45.9	39.5	25.7	10.1	4.6	0.0	0.0	0.0
70°	1785.4	281.8	85.3	32.1	25.7	15.6	7.4	0.9	0.0	0.0	0.0
72.5°	684.8	152.4	68.8	19.3	16.5	11.0	4.6	0.0	0.0	0.0	0.0
75°	154.2	100.0	47.7	13.8	11.9	7.4	1.9	0.0	0.0	0.0	0.0
77.5°	58.8	72.5	27.6	9.2	8.3	4.6	0.0	0.0	0.0	0.0	0.0
80°	28.4	43.1	12.9	5.5	4.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	14.7	16.5	5.5	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	8.3	2.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.8	0.9	0.9	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)