

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: P383631

Luminaire Tested: **GLEON-SA9A-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383631  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39043.9 lumens  
Efficiency: N/A  
Efficacy: 134.6 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

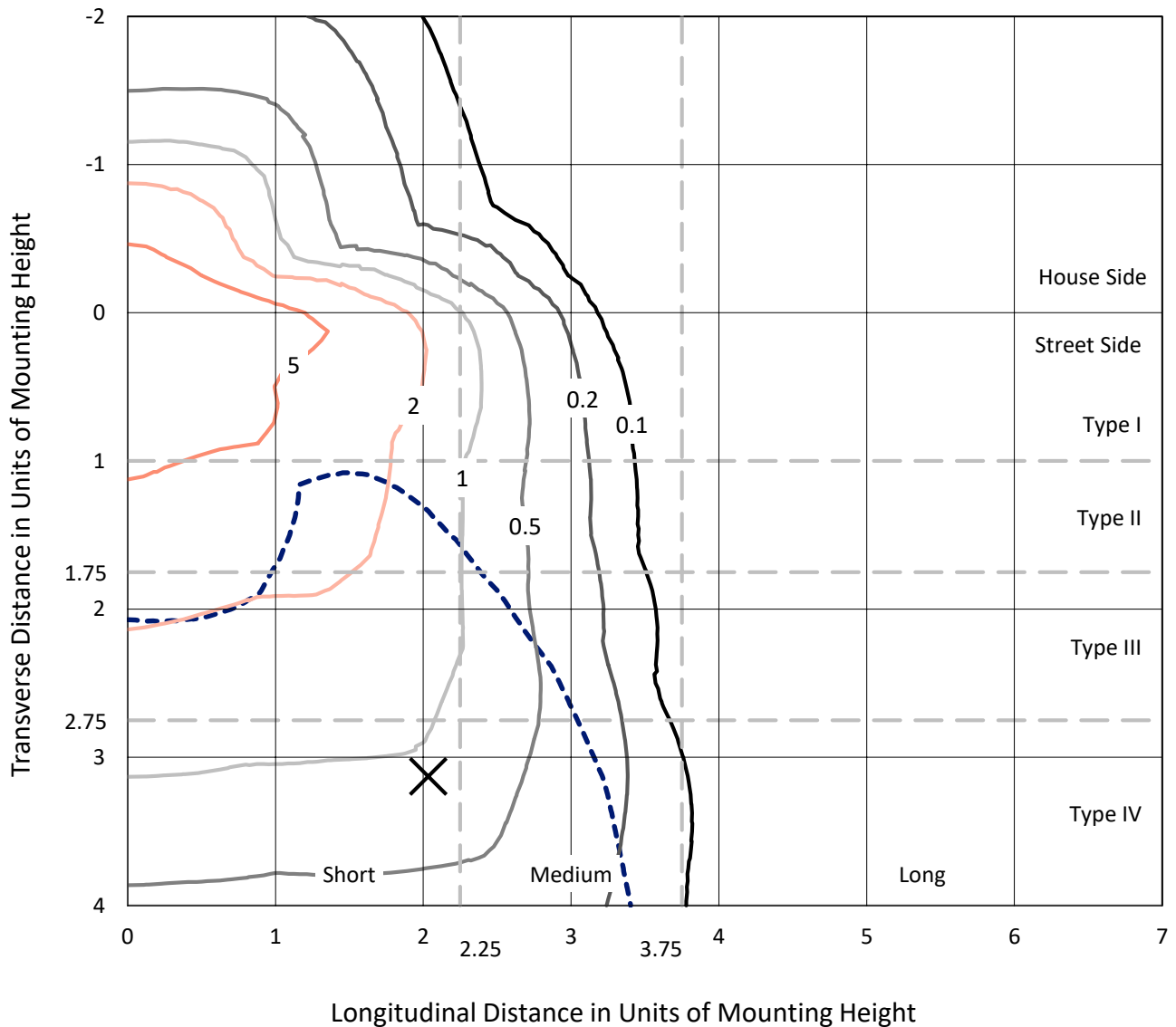
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

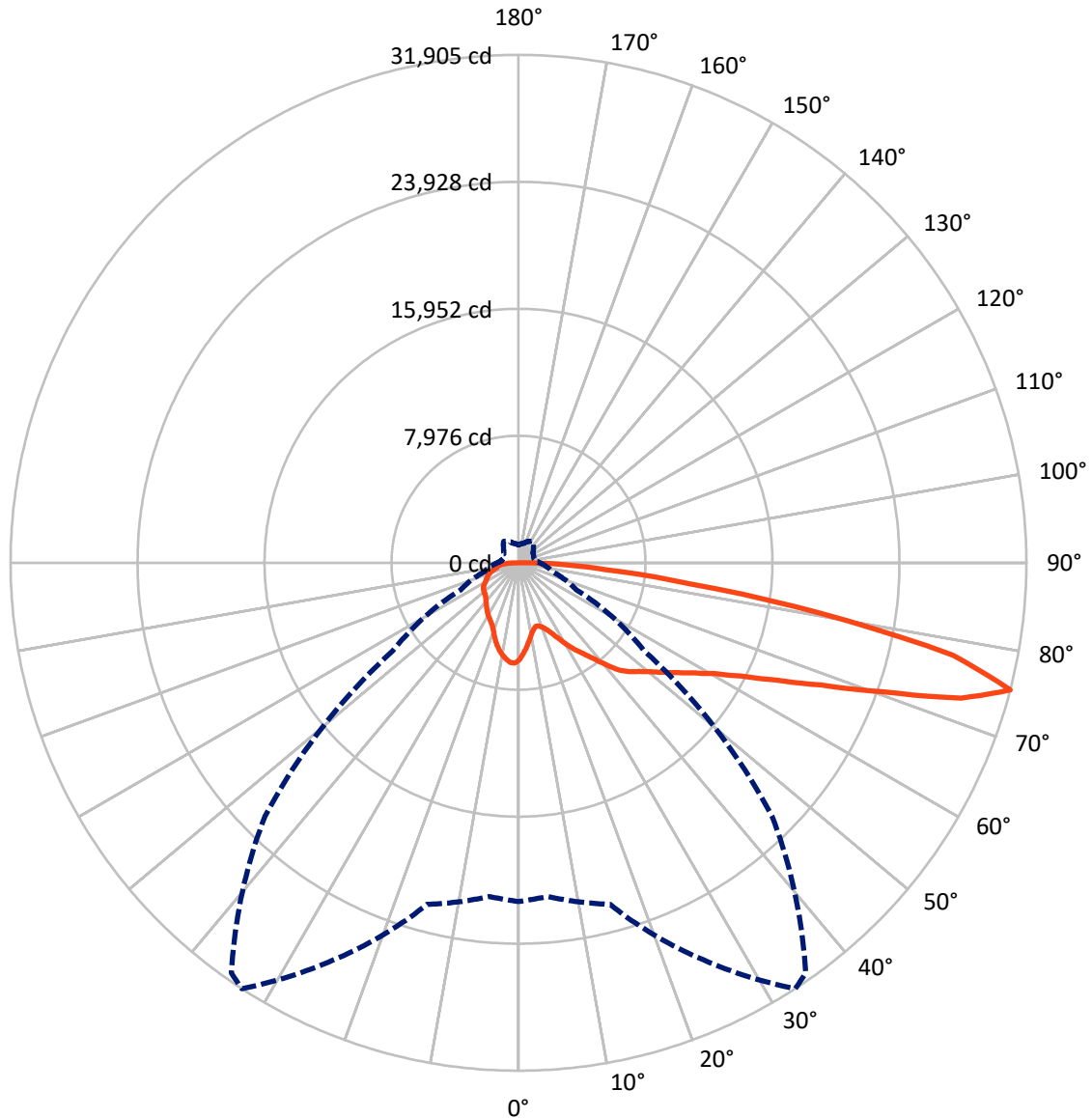
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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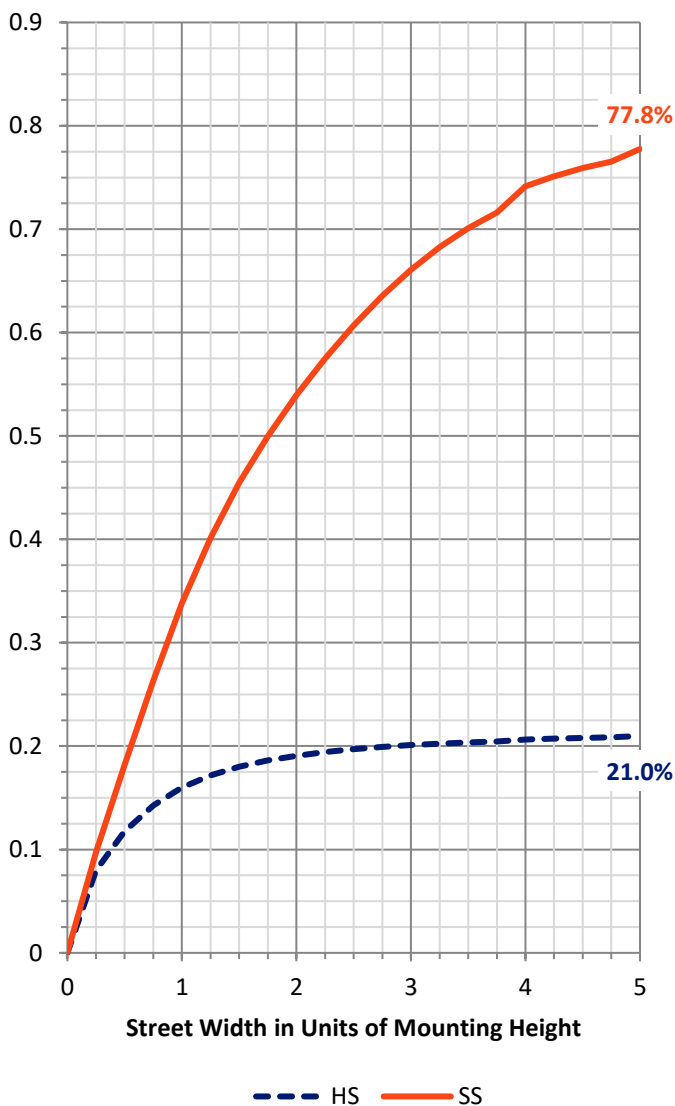
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8383.8	0.0	8383.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	30660.2	0.0	30660.2
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	39043.9	0.0	39043.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.9	1.4
10°-20°	1494.8	3.8
20°-30°	2441.3	6.3
30°-40°	3635.6	9.3
40°-50°	5214.5	13.4
50°-60°	7158.7	18.3
60°-70°	8962.4	23.0
70°-80°	8107.8	20.8
80°-90°	1476.9	3.8
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°	39043.9	100.0
0°-180°	39043.9	100.0

**Coefficient of Utilization**

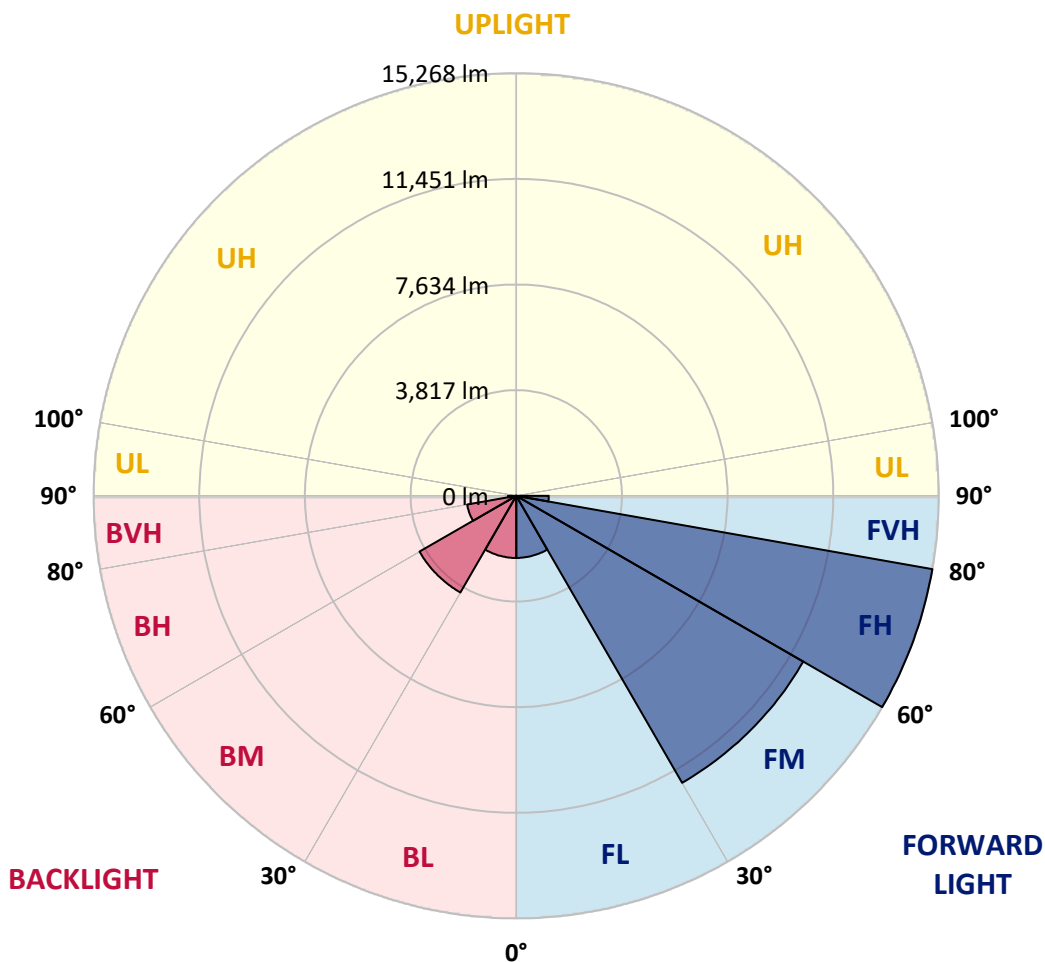


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2242.5	5.7			
FM (30°-60°)	11974.0	30.7			
FH (60°-80°)	15267.5	39.1			G5
FVH (80°-90°)	1176.2	3.0			G5
BL (0°-30°)	2245.6	5.8	B3/2500		
BM (30°-60°)	4034.9	10.3	B3/5000		
BH (60°-80°)	1802.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	300.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8
2.5°	5667.2	5645.6	5686.1	5691.5	5726.5	5740.0	5788.5	5864.1	5926.1	5997.6	6062.3
5°	5153.3	5138.5	5195.1	5235.6	5312.4	5344.8	5459.4	5619.9	5762.9	5924.7	6071.7
7.5°	4665.1	4657.0	4720.4	4812.1	4901.2	4945.6	5143.9	5377.2	5615.9	5877.6	6102.8
10°	4253.7	4251.0	4311.8	4402.1	4532.9	4582.8	4839.1	5146.6	5481.0	5841.2	6155.4
12.5°	4023.1	4032.6	4060.9	4136.4	4257.8	4307.7	4592.3	4953.7	5367.8	5829.0	6232.2
15°	4079.8	4094.6	4046.1	4043.4	4129.6	4168.8	4435.8	4816.1	5286.8	5849.3	6344.2
17.5°	4321.2	4323.9	4195.8	4114.8	4167.5	4187.7	4387.3	4737.9	5239.7	5895.1	6484.5
20°	4661.1	4654.3	4427.7	4292.9	4321.2	4326.6	4456.1	4739.2	5235.6	5974.7	6666.5
22.5°	5111.5	5061.6	4756.8	4573.3	4566.6	4558.5	4632.7	4839.1	5294.9	6104.2	6883.7
25°	5699.5	5652.4	5232.9	4982.0	4928.1	4907.9	4918.7	5052.2	5412.3	6243.0	7126.4
27.5°	6353.6	6271.4	5866.8	5512.1	5400.1	5371.8	5307.0	5353.0	5540.4	6376.5	7415.0
30°	6901.2	6856.7	6503.3	6082.5	5950.4	5909.9	5740.0	5690.1	5725.2	6558.7	7779.2
32.5°	7207.4	7177.7	6963.2	6623.4	6500.6	6444.0	6203.9	6104.2	6021.9	6845.9	8272.8
35°	7578.2	7559.3	7429.9	7183.1	7001.0	6941.7	6755.6	6651.7	6440.0	7241.1	8910.7
37.5°	8050.2	8030.0	8032.7	7833.1	7616.1	7560.7	7437.9	7328.8	6982.1	7760.4	9604.0
40°	8584.4	8545.3	8530.5	8521.0	8383.4	8352.3	8287.7	8139.3	7661.9	8380.7	10287.7
42.5°	9388.1	9249.2	8952.5	9064.5	9200.7	9184.5	9237.1	9024.0	8417.1	9114.4	10955.4
45°	10163.7	9935.7	9423.3	9447.5	9745.6	9835.9	10229.8	10078.7	9235.7	9918.2	11645.8
47.5°	10517.0	10344.4	9908.8	9910.1	10205.5	10392.9	11256.1	11148.2	10096.2	10831.3	12488.8
50°	10912.1	10739.5	10348.5	10495.5	10753.0	10952.7	12247.4	12192.1	10914.9	11830.7	13499.0
52.5°	11343.7	11051.1	10803.0	11065.9	11427.4	11659.3	13240.0	13089.0	11666.1	12836.7	14660.1
55°	11349.1	11269.6	11458.4	11651.2	12192.1	12476.7	14279.9	13880.6	12278.4	13825.4	15605.6
57.5°	11995.2	11865.7	12266.2	12355.3	13062.0	13383.0	15314.3	14569.8	12901.5	14583.3	16115.4
60°	12850.2	12739.7	13067.4	13302.0	14138.3	14567.1	16418.9	15277.8	13391.1	15155.2	16091.1
62.5°	14327.0	14201.6	14197.6	14526.6	15652.8	16151.8	17658.3	15972.4	13585.3	15268.4	15404.6
65°	16489.0	16289.4	15913.1	16069.6	17744.6	18242.3	19043.4	16475.5	13329.0	14661.5	13636.6
67.5°	18592.9	18586.2	18123.6	18444.5	20506.7	20905.9	20621.4	16525.4	12529.2	12548.1	10499.5
70°	20690.1	20717.2	20638.9	21755.6	24238.5	24653.9	22301.8	15855.1	10731.4	9061.8	6290.3
72.5°	22351.7	22344.9	22738.8	25618.2	29081.6	28988.6	23717.9	13824.0	7705.0	4891.6	3006.2
75°	21275.4	21040.8	22214.1	27530.7	31904.5	31449.9	22513.5	9643.1	3998.9	2226.7	1618.4
77.5°	13876.6	14099.2	15821.4	22742.8	27906.9	27354.0	16517.3	4499.2	1884.1	1460.7	1173.4
80°	5025.2	5259.9	7408.3	12882.7	19226.9	19136.5	8133.9	1849.0	1274.5	1103.2	855.1
82.5°	1729.0	1815.3	2922.6	5721.1	10855.5	11260.2	3060.1	1050.6	926.5	782.2	585.3
85°	678.4	776.8	1336.6	2752.6	5475.6	5516.1	1239.4	628.5	644.6	512.5	321.0
87.5°	257.6	312.9	639.3	1278.5	2500.5	2296.8	443.7	299.4	366.8	304.8	152.4
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°	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8	6102.8
2.5°	6112.3	6140.6	6199.9	6240.3	6283.5	6295.7	6301.1	6311.8	6322.6	6318.6	6319.9
5°	6150.0	6205.3	6301.1	6341.5	6360.4	6338.8	6297.0	6263.3	6239.0	6225.5	6221.4
7.5°	6212.0	6290.3	6392.7	6386.0	6342.8	6247.1	6139.2	6058.3	5990.9	5966.6	5953.1
10°	6294.3	6386.0	6457.5	6380.6	6255.2	6089.3	5927.4	5802.1	5700.9	5661.8	5655.1
12.5°	6399.5	6492.5	6506.0	6342.8	6135.2	5908.6	5688.8	5522.9	5371.8	5323.2	5312.4
15°	6535.7	6623.4	6539.7	6276.8	5986.8	5682.0	5397.4	5172.2	5013.0	4953.7	4932.2
17.5°	6678.6	6762.3	6546.5	6167.5	5792.5	5413.6	5056.3	4825.6	4643.5	4574.7	4566.6
20°	6849.9	6887.7	6518.2	6011.1	5525.6	5065.7	4689.4	4472.3	4375.1	4326.6	4321.2
22.5°	7061.7	7021.3	6453.5	5799.3	5187.0	4663.7	4357.6	4256.4	4232.2	4221.4	4225.4
25°	7285.5	7161.5	6357.7	5522.9	4759.5	4261.8	4114.8	4143.2	4175.5	4171.5	4171.5
27.5°	7532.4	7304.5	6210.7	5156.0	4286.1	3932.7	3950.3	4054.1	4102.7	4101.3	4100.0
30°	7849.3	7466.3	6023.2	4715.0	3843.8	3700.8	3807.3	3934.1	4000.2	3997.5	3998.9
32.5°	8239.1	7644.4	5768.3	4222.7	3524.1	3529.5	3652.2	3777.7	3854.6	3847.8	3849.2
35°	8695.0	7843.9	5423.1	3737.2	3312.4	3393.3	3490.4	3578.1	3650.9	3641.4	3632.0
37.5°	9191.3	8039.5	4964.5	3302.9	3139.7	3266.5	3347.4	3362.2	3396.0	3371.7	3354.1
40°	9663.3	8189.2	4373.8	2946.9	2965.8	3158.6	3211.2	3151.9	3091.2	3083.0	3058.8
42.5°	10074.7	8239.1	3776.3	2662.3	2782.3	3045.3	3077.7	2953.7	2844.4	2793.2	2771.5
45°	10509.0	8256.7	3219.3	2423.6	2605.6	2944.2	2979.3	2813.4	2659.6	2549.0	2512.6
47.5°	11076.8	8383.4	2786.4	2246.9	2470.7	2876.7	2926.6	2701.4	2501.8	2344.1	2310.3
50°	11819.8	8634.2	2434.4	2112.0	2383.1	2832.3	2888.9	2592.1	2372.4	2182.2	2148.4
52.5°	12645.3	8864.9	2149.8	2002.8	2298.1	2754.0	2840.3	2514.0	2251.0	2032.5	1996.0
55°	13222.5	8688.2	1920.5	1889.5	2187.6	2642.1	2772.9	2447.8	2077.0	1886.8	1854.4
57.5°	13333.1	8084.0	1746.6	1772.2	2054.1	2501.8	2669.1	2300.8	1982.5	1823.4	1789.7
60°	13031.0	7242.4	1617.1	1664.3	1911.1	2325.1	2474.8	2197.0	1892.2	1756.0	1727.6
62.5°	12271.6	6380.6	1521.3	1567.1	1777.6	2145.7	2353.5	2087.8	1800.5	1679.1	1650.8
65°	10738.2	5357.0	1429.6	1480.9	1653.5	1990.6	2244.2	1986.6	1710.1	1617.1	1590.1
67.5°	8105.6	4012.4	1343.3	1389.1	1542.9	1855.8	2125.5	1886.8	1622.5	1563.1	1530.7
70°	4773.0	2512.6	1244.8	1293.4	1426.9	1715.5	1998.7	1777.6	1513.2	1486.3	1444.5
72.5°	2221.3	1511.9	1132.9	1180.1	1281.3	1528.0	1835.5	1634.6	1383.7	1324.4	1267.7
75°	1325.8	1105.9	1000.8	1042.5	1114.0	1328.5	1630.6	1489.0	1261.0	1182.8	1123.4
77.5°	991.3	845.7	855.1	899.6	957.5	1162.6	1444.5	1374.3	1166.6	1105.9	1065.5
80°	713.5	641.9	697.3	745.8	806.5	1057.4	1383.7	1270.4	1054.7	973.7	936.0
82.5°	476.1	461.2	524.6	574.6	633.9	925.2	1300.2	1112.6	900.9	798.4	714.8
85°	263.0	277.8	353.3	374.9	426.2	651.4	1065.5	894.2	678.4	546.3	521.9
87.5°	109.3	128.1	190.1	183.4	226.6	388.5	701.3	539.5	431.6	322.3	250.9
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)